

Summer 2026 Undergraduate Research Symposium: Mentors & Other Acknowledgments

Names appear as submitted in OURConnect. Names may be edited (for future reporting) via “my profile” in OURConnect.

Students’ Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Adam, Casey Erin	Poster #1091: 7/30 @ 10:30-11:30am	Investigating Acute Responses to Mild Blast Traumatic Brain Injury in an in vitro Human Tau-Expressing Neuronal Model	Natalia Nino Cocoma† (Vet Med)
Adams, Ismaila	Poster #1211: 7/30 @ 12:00-1:00pm	Geometric Characterization of Helix Orientation Across Protein Kinase Conformational States	Nycholas Contreras† (PWL)
Adams, Shauna Nicole	Poster #1472: 7/30 @ 1:30-2:30pm	Educational Gap Analysis of SCALE HIAP Course Content Using Educational Mapping	Nathan Grant Clark† (Engineering) Junyi Xiu* (Vanderbilt University) Olyver Fierro* (Engineering) Eileen Koh* (Engineering)
Adams, Shauna Nicole	Poster #1474: 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis of SCALE Educational Resources for System-on-Chip Workforce Development	Olyver Fierro† (Engineering) Eileen Koh‡ (Engineering) Junyi Xiu* (Vanderbilt University) Nathan Grant Clark* (Engineering)
Adams, Shauna Nicole	Poster #1478: 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis for SCALE Radiation-Hardening Technical Vertical	Junyi Xiu† (Vanderbilt University) Olyver Fierro* (Engineering) Nathan Grant Clark* (Engineering) Eileen Koh* (Engineering)
Adams, Shauna Nicole	Talk #9006: 7/27-7/31 virtually	Systematic Gap Analysis for SoC Curriculum Development	Eileen Koh† (Engineering) Olyver Fierro‡ (Engineering) Junyi Xiu* (Vanderbilt University) Nathan Grant Clark* (Engineering)
Adari, Satish Kumar	Poster #1479: 7/30 @ 1:30-2:30pm	Use of Digital Image Correlation in Calibration Chamber Tests to Study the Response of Soil in Geotechnical Engineering	Harol Esteban Botero Soto† (Engineering)
Adebakin, Yusuf Kolawole	Poster #1275: 7/30 @ 12:00-1:00pm	VISIBLE: Visualizing Infant Developmental States Through Noninvasive Multisensory Bioelectronics	Andrea Rocha Barajas† (Engineering)
Adepu, Harshith Kumar	Poster #1233: 7/30 @ 12:00-1:00pm	Additive Manufacturing of Transverse Flutes	Anirud Chakkarapani† (Engineering) Mirza Orunav Shahper* (Engineering)
Aggarwal, Varun	Poster #1059: 7/30 @ 10:30-11:30am	Analysis of Closed-Loop Communication to Predict Non-Technical Skills Amongst Surgical Teams in Operating Rooms	Kelcie Edrea T Estrera† (Science) Yizheng Jiang‡ (Engineering)
Aggarwal, Varun	Poster #1077: 7/30 @ 10:30-11:30am	Creating Connected Pathways in Iron: Engineering Interconnected Porous Networks Through Magnesiothermic Reduction	Emily Danielle Kushner† (Engineering) Helen Sophia Brzozowski* (Engineering)
Aggarwal, Varun	Poster #1078: 7/30 @ 10:30-11:30am	Teaching AI to See Past Style: A Reproducible CAPTCHA-Style Tool for Curating Invariant Image Pairs	Andre Lee† (Engineering) Akshith Garapati‡ (Engineering)
Aggarwal, Varun	Poster #1082: 7/30 @ 10:30-11:30am	In-Situ Pharmaceutical Production Platform with Mycoconic™ : Environmental Optimization of Pleurotus Exudate Yield	Ana Sofia Leiva Aldana† (Agriculture Engineering)

Name	Presentation	Title	Students
Aggarwal, Varun	Poster #1089: 7/30 @ 10:30-11:30am	Evaluating Biofilm-Contaminant Interactions in Water Distribution Systems After Emergencies and Disasters	Keira Alexandra Murphy† (Engineering)
Aggarwal, Varun	Poster #1095: 7/30 @ 10:30-11:30am	Characterization of Strain Acquisition in Thermoreversible Acrylic Gels Using Rheo-Particle Image Velocimetry	Zachary Ryan Roeder† (Engineering)
Aggarwal, Varun	Poster #1098: 7/30 @ 10:30-11:30am	A Foundation Model Approach to Crop Monitoring and Agroecosystem Analytics	Udaiveer Singh† (Agriculture Engineering)
Aggarwal, Varun	Poster #1109: 7/30 @ 10:30-11:30am	An Integrated Processing and Interference Quality-Check Tool for Drone-Collected Synthetic Aperture Radar Data	Ryan Wu† (Engineering)
Aggarwal, Varun	Poster #1236: 7/30 @ 12:00-1:00pm	Resource Allocation to Mitochondria at Slow Growth Rates	Allison Clark† (Science)
Aggarwal, Varun	Poster #1245: 7/30 @ 12:00-1:00pm	Scaling Real-Time Inference and Automated Anomaly Detection for 250+ Type II Supernovae	Medhansh Garg† (Science)
Aggarwal, Varun	Poster #1247: 7/30 @ 12:00-1:00pm	Q-JSR: A Hybrid Classical-Quantum Framework for Multi-Class Instance Segmentation in Aerial Imagery	Arsh Gupta† (Science) Connor Siurek† (Science)
Aggarwal, Varun	Poster #1249: 7/30 @ 12:00-1:00pm	When the Brakes Come Off: Investigating Role of CSK in Stem-Cell Growth and Blood Development	Ananya Hegde† (Engineering)
Aggarwal, Varun	Poster #1272: 7/30 @ 12:00-1:00pm	An Experimental Study on Ice Droplet Breakup Within the Purdue 3-Inch Shock Tube	Caleb Jonathan Radtke† (Engineering) Alex Perry† (Engineering)
Aggarwal, Varun	Poster #1274: 7/30 @ 12:00-1:00pm	Using μ CT to Visualize Bone Degradation Caused by PTOA	Amrita Rani Raparti† (Engineering)
Aggarwal, Varun	Poster #1279: 7/30 @ 12:00-1:00pm	Q-JSR: A Hybrid Classical-Quantum Framework for Multi-Class Instance Segmentation in Aerial Imagery	Connor Siurek† (Science) Arsh Gupta† (Science)
Aggarwal, Varun	Poster #1287: 7/30 @ 12:00-1:00pm	Characterizing Optical Radiation in Solid Fuel Ramjets	Katie Wilkinson†
Aggarwal, Varun	Poster #1408: 7/30 @ 1:30-2:30pm	Nickel Powder and Foil with Reaction-Synthesized Porous Surfaces	Helen Sophia Brzozowski† (Engineering) Emily Danielle Kushner* (Engineering)
Aggarwal, Varun	Poster #1436: 7/30 @ 1:30-2:30pm	Understanding the Optical Properties of MXenes	Vedha Masuraha† (Engineering Liberal Arts)
Aggarwal, Varun	Poster #1450: 7/30 @ 1:30-2:30pm	Two-Way Coupled Particle-Air Flow Simulation for Improved Erosion Prediction in Aircraft Engine Compressors	Daniel J V Pike† (Engineering) Sai Kasturi Kamila* (Engineering JMHC)
Aggarwal, Varun	Poster #1459: 7/30 @ 1:30-2:30pm	Automating 2D material exfoliation	Aditya Srinivasan† (Science)
Aggarwal, Varun	Poster #1461: 7/30 @ 1:30-2:30pm	Investigating the Integration of Dense Vision and Non-Traditional Sensing Modalities for Robust Robotic Perception	Gabriel Torres† (Engineering)
Aggarwal, Varun	Poster #1468: 7/30 @ 1:30-2:30pm	Cas12a-Assisted Precise Targeted Cloning and Characterization of <i>Nonomuraea candida</i> NRRL B-24552 Biosynthetic Gene Cluster	Eloise Zambrano† (Science)
Aggarwal, Varun	Talk #7000: 7/30 @ 10:00am	Nanoscale Thermal Transport Mapping and Interfacial Constraints of Individual Layers for Titanium Carbide (Ti ₃ C ₂ T _x) MXene	Johanna Walther† (Engineering)

Name	Presentation	Title	Students
Aggarwal, Varun	Talk #7016: 7/30 @ 11:20am	Ice-Droplet Interaction with Supersonic Shock Waves	Alex Perry [†] (Engineering) Caleb Jonathan Radtke [†] (Engineering)
Aggarwal, Varun	Talk #7031: 7/30 @ 12:20pm	A Market-Driven Framework for Neutron Detection: Aligning Detector Technologies with Emerging Nuclear Applications	Lucas K Philip [†] (Engineering) Samuel B Angus* (Engineering) Cory Berlin Stephenson* (Engineering)
Aggarwal, Varun	Talk #7049: 7/30 @ 1:20pm	Socioeconomic Status as a Moderator of ACT Outcomes in Caregivers of Children with Neurogenetic Conditions	Chenrui Yin [†] (HHS Science)
Aggarwal, Varun	Talk #7079: 7/30 @ 3:20pm	Investigating Performance of Nanosilica and Non-traditional and Natural Pozzolans in Type II Cementitious systems	Aryan Daga [†] (Engineering)
Aguilera De Alba, Fernando	Poster #1047: 7/30 @ 10:30-11:30am	Standardized histological protocol to characterize cochlear synaptopathy in chinchillas after noise or blast exposure	Maria Catalina Aceros [†] (Engineering)
Ahlawat, Mihir	Talk #9001: 7/27-7/31 virtually	GTAP Insight Engine: AI Agents for Scientific Computing	Eric Jin [†] (Science JMHC) Howie Lin [†] (PWL)
Ahlawat, Mihir	Talk #9002: 7/27-7/31 virtually	GTAP Insight Engine: AI Agents for Scientific Computing	Howie Lin [†] (PWL) Eric Jin [†] (Science JMHC)
Ahrbecker, Max	Poster #1224: 7/30 @ 12:00-1:00pm	High-Resolution Monitoring of the Lake Michigan Shoreline Position Using Orthorectified Camera Imagery	Abner Obed Ruiz Pérez [†] (PWL)
Alabi, Ayotunde Olaoluwa	Poster #1057: 7/30 @ 10:30-11:30am	Experimentally Probing Mechanistic Differences in Toluene Methylation with Methanol and Dimethyl Ether within H-MFI zeolite	Brendan Edward Crump [†] (Engineering)
Alam, Waqas	Poster #1426: 7/30 @ 1:30-2:30pm	Characterization and Optimization of Mycelium-based Membrane Distillation with Feed-Side Fins	Dev Vishwash Joshi [†] (Engineering)
Alexander, Jordan Joseph	Poster #1109: 7/30 @ 10:30-11:30am	An Integrated Processing and Interference Quality-Check Tool for Drone-Collected Synthetic Aperture Radar Data	Ryan Wu [†] (Engineering)
Al-Hindy, Momen Mohamed Am	Poster #1214: 7/30 @ 12:00-1:00pm	Discovery of Novel Covalent Inhibitors of the Cryptic Site of the Protein Tyrosine Phosphatase SHP-1.	Roman Matamoros [†] (PWL) Olivia Nicole Safranek* (Science)
Aliaga, Daniel G	Poster #1247: 7/30 @ 12:00-1:00pm	Q-JSR: A Hybrid Classical-Quantum Framework for Multi-Class Instance Segmentation in Aerial Imagery	Arsh Gupta [†] (Science) Connor Siurek [†] (Science)
Aliaga, Daniel G	Poster #1279: 7/30 @ 12:00-1:00pm	Q-JSR: A Hybrid Classical-Quantum Framework for Multi-Class Instance Segmentation in Aerial Imagery	Connor Siurek [†] (Science) Arsh Gupta [†] (Science)
Alichy, Sowmya	Talk #9023: 7/27-7/31 virtually	Heuristic-Based Chemoenzymatic Retrosynthesis Planner for Complex Chemicals in Drug Manufacturing	Sahil Yadav [†] (PWL)
Allen, Brandon Chase Myke	Poster #1000: 7/30 @ 10:30-11:30am	Longevity Innovations for Flight Technology (L.I.F.T.): Engineering Optimal Battery Packs for Electric Aircraft	Ruby L Aubin [†] (Engineering) Chandler Justice [†] (Utah State University)
Ames, Brodie	Poster #1296: 7/30 @ 12:00-1:00pm	Developing a Gate Boosted Pulse Generator to Drive Gas Discharge Tube Based Nonlinear Transmission Line System	Luke Alexander Trahin [†] (Engineering) Samuel Christian Olenick* (Engineering)
An, Jingxian	Poster #1033: 7/30 @ 10:30-11:30am	Optimizing the preparation of solubilizer in antiviral formulations	Tongyu Qin [†]

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Anandan, Sudharshan	Talk #7006: 7/30 @ 10:00am	Acoustic Enhancement of Porous Filters in HVAC Systems for Submicron Bioaerosol Removal	Tyler Hughes† (Centers & Institutes)
Anasori, Babak	Poster #1436: 7/30 @ 1:30-2:30pm	Understanding the Optical Properties of MXenes	Vedha Masuraha† (Engineering Liberal Arts)
Ando, Kosuke	Poster #1269: 7/30 @ 12:00-1:00pm	Three Dimensional (3D) Imaging and Analysis of Damage in Sn-Ag-Cu Solder Ball Grid Arrays Under Thermal Cycling	Abhishek Manoj Nair† (Engineering Libraries)
Appleton, Robert Joseph	Poster #1226: 7/30 @ 12:00-1:00pm	Radiation Cascade Studies in GST-C Using Molecular Dynamics	Agustin Abt† (Engineering) Aryan Rauniyar‡ (Engineering)
Ardekani, Arezoo	Poster #1055: 7/30 @ 10:30-11:30am	Evaluation of the In Situ Raman Detection Limit for Bacterial Colonies	Avery Chan† (Engineering)
Ardekani, Arezoo	Poster #1253: 7/30 @ 12:00-1:00pm	Injectable Alginate–Chitosan Hydrogel: Fabrication and Characterization	Habin Jang† (Agriculture Engineering) Maxwell J Gootee‡ (HHS Liberal Arts JMHC)
Ardekani, Arezoo	Poster #1270: 7/30 @ 12:00-1:00pm	AutoMD: An LLM-Based Agent System for Automating Molecular Dynamics Workflows	Nathan Nguyen† (Engineering Science)
Ardekani, Arezoo	Poster #1278: 7/30 @ 12:00-1:00pm	Accelerating Scientific Literature Review with Agentic AI: Multi-Agent Knowledge Distillation and Plot Digitization	Fang Rui Shen† (Science)
Ardekani, Arezoo	Poster #1425: 7/30 @ 1:30-2:30pm	Development of an Endothelial Microfluidic Chip Model as a Platform for Drug Delivery Studies in Cancer	Delfina B Jackson† (Engineering)
Arora, Devender	Talk #7067: 7/30 @ 2:20pm	An automated workflow for Multi-Omics Analysis using Solvent Touch Extraction.	Jesus Esteban Ladino Giraldo† (PWL)
Arrieta Diaz, Andres	Talk #7048: 7/30 @ 1:00pm	Pressure-Triggered Contact Sensing for Fully Mechanical Soft Robotic Response	Juan Pablo Monge Mesen† (Engineering)
Arrieta Diaz, Andres	Talk #7050: 7/30 @ 1:40pm	Fluid-Powered Autonomy: Embedded Fluidic Oscillators for Pneumatic and Hydraulic Soft Robots	Camila Uribe† (Engineering) Juan Pablo Monge Mesen‡ (Engineering)
Arya, Ujjawal	Talk #7058: 7/30 @ 1:20pm	High-Resolution Thermal Warpage Measurement Using 3D Laser Vibrometry and Optical Profilometry	Ishaan Brar† (Engineering)
Asghar, Amina	Poster #1266: 7/30 @ 12:00-1:00pm	High-Throughput Electrochemical Synthesis of Amides on Ni(OH) ₂	Katherine Mader† (University of Texas at Austin)
Avera, Davis Roy	Poster #1233: 7/30 @ 12:00-1:00pm	Additive Manufacturing of Transverse Flutes	Anirud Chakkarapani† (Engineering) Mirza Orunav Shahper* (Engineering)
Azimi, Lena	Poster #1100: 7/30 @ 10:30-11:30am	Using UAV-Based Hyperspectral and LiDAR to Estimate Leaf Area Index in Maize	Daniela Solarte Rodriguez† (Engineering)
Azimi, Lena	Poster #1109: 7/30 @ 10:30-11:30am	An Integrated Processing and Interference Quality-Check Tool for Drone-Collected Synthetic Aperture Radar Data	Ryan Wu† (Engineering)
Bae, euiwon	Poster #1080: 7/30 @ 10:30-11:30am	Design, analysis, and fabrication of elastic light scattering system for airborne particulate matter	Woojun Lee† (Engineering)
Bajgain, Pradip	Talk #7029: 7/30 @ 11:40am	Molecular thresholds for activation and fratricide by anti-B7-H3 CAR T cells	Nicole Shashurin† (Science)

Name	Presentation	Title	Students
Bakhit, Frank C	Talk #9000: 7/27-7/31 virtually	Rosen Center for Advanced Computing Anvil REU Project #3- Elastic Cloud Scheduling for Anvil	Angello Bravo† (PWL) Shelby Stall† (PWL)
Bakhit, Frank C	Talk #9003: 7/27-7/31 virtually	Rosen Center for Advanced Computing Anvil REU Project #3- Elastic Cloud Scheduling for Anvil	Shelby Stall† (PWL) Angello Bravo† (PWL)
Ball, Brendan	Talk #7029: 7/30 @ 11:40am	Molecular thresholds for activation and fratricide by anti-B7-H3 CAR T cells	Nicole Shashurin† (Science)
Ballance, Tanner James	Poster #1058: 7/30 @ 10:30-11:30am	A Semi-Automated Pipeline for Generating Finite Element Models of Plant Cells from Confocal Microscopy	Guilherme de Souza Correa† (Engineering)
Ballaney, Pranav	Poster #1509: 7/30 @ 1:30-2:30pm	Claudin-4 as a Target for Fluorescent Surgical Imaging of Metastatic Cancer	Noah Miller† (PWL) Beatrice V Dias‡ (Science) Laurel Frances Tayloe‡ (Science)
Balmos, Andrew	Poster #1052: 7/30 @ 10:30-11:30am	A Speech Command Interface and Sensing Pipeline for Agricultural Vehicles	Sidharth Bhatt†
Balmos, Andrew	Poster #1240: 7/30 @ 12:00-1:00pm	Project Rosa: An Off-Grid Edge Computing Gateway for Agricultural Data	Pavle Duric† (Engineering Polytechnic) Spencer Michael Beane* (Engineering) Keri Lyn Christman* (PWL)
Bamoumen, Hatim	Poster #1429: 7/30 @ 1:30-2:30pm	Pressure and Force Density Distributions Caused by Electromagnetic Radiation	Adam Lewis Kipp† (Engineering)
Bamoumen, Hatim	Talk #7075: 7/30 @ 3:00pm	Modeling Thin Membrane Response to Time-Varying Forces	Carman Stanton† (Engineering)
Banerjee, Arnab	Poster #1267: 7/30 @ 12:00-1:00pm	Orientation Dependent Excitonic Coupling and Purcell Enhancement in MoOCl ₂ -TMDC Heterostructures	Ryan Y Manley† (Engineering)
Bansal, Shubhra	Poster #1293: 7/30 @ 12:00-1:00pm	Coupled Phase-Field and Finite Element Modeling of Copper Pad Deformation in Hybrid Bonding Anneal	William Eunseok Jo†
Bao, Xiaoping	Poster #1249: 7/30 @ 12:00-1:00pm	When the Brakes Come Off: Investigating Role of CSK in Stem-Cell Growth and Blood Development	Ananya Hegde† (Engineering)
Barker, Richard John	Poster #1082: 7/30 @ 10:30-11:30am	In-Situ Pharmaceutical Production Platform with Mycoponic™ : Environmental Optimization of Pleurotus Exudate Yield	Ana Sofia Leiva Aldana† (Agriculture Engineering)
Barocio Vaca, Eduardo	Poster #1200: 7/30 @ 12:00-1:00pm	Service Life Assessment of Additively Manufactured Carbon Fiber Reinforced Thermoplastic Composite Tooling	Changho Lee† (Centers & Institutes)
Barta, Riley Bradley	Poster #1232: 7/30 @ 12:00-1:00pm	Evaluation and Analysis of Low-GWP Refrigerant-Lubricant Miscibility for Ultra-Low Temperature Applications	Emma Caron† (Engineering JMHC)
Barui, Amit Kumar	Poster #1518: 7/30 @ 1:30-2:30pm	Designing Microfluidic Chips for Accurate Neutralizing-Antibody Capture Using Magnetophoresis	Maia Stef-Praun† (Engineering)
Basu, Koushiki	Poster #1286: 7/30 @ 12:00-1:00pm	Predicting Intrinsic Clearance Through Quantum-Informed Embedding of Molecular Surface in Machine Learning	Alissa Weigand† (Pharmacy)

Name	Presentation	Title	Students
Baumhardt, Patrice E	Poster #1322: 7/30 @ 12:00-1:00pm	Lighting conditions shape visual perception of objects across pasture, aviary, and enriched colony housing systems	Julian Leonard Smith† (Agriculture)
Beauclair, Timothy Brock	Poster #1124: 7/30 @ 10:30-11:30am	Differential Vulnerability of Excitatory and Inhibitory Synapses to Acrolein-Mediated Oxidative Damage	Maheen Syed† (Engineering) John Pao Miles* (Liberal Arts)
Bekele, Bereket Tassew	Poster #1238: 7/30 @ 12:00-1:00pm	Investigating the Role of Lithium During FAU-to-CHA Inter-Zeolite Conversion	Sylvia Isabella Diaz† (Engineering) Sarah E Mollan‡ (Engineering)
Belkadi, Dhiya eddine	Poster #1275: 7/30 @ 12:00-1:00pm	VISIBLE: Visualizing Infant Developmental States Through Noninvasive Multisensory Bioelectronics	Andrea Rocha Barajas† (Engineering)
Belmont Coelho, Paula	Poster #1089: 7/30 @ 10:30-11:30am	Evaluating Biofilm-Contaminant Interactions in Water Distribution Systems After Emergencies and Disasters	Keira Alexandra Murphy† (Engineering)
Bera, Aniket	Poster #1412: 7/30 @ 1:30-2:30pm	HEROIC: Heterogeneous Robot Intelligence through Conceptual Communication and Gradient-based Control	Mihir S Chauhan† (Science) Aarav Jain‡ Addison Francis Zucek‡ (Science) Manmeet Singh Dang‡ (Science)
Bermel, Peter	Poster #1291: 7/30 @ 12:00-1:00pm	Improved Radiation Testing Methodology and Characterization of COTS Memory Devices with varying Memory and Package Size	Louis Vincent Buonaiuto† (Engineering)
Bermel, Peter	Poster #1471: 7/30 @ 1:30-2:30pm	Source Differentiation of RP2040 and ESP32 Development Boards Using Non-Destructive Chemical and Surface Analysis	Owen Chen† (Engineering) James Arthur Spezzano* (Engineering) Sean Ross Klein* (Engineering Libraries) Brandon Anthony Farber* (Engineering)
Bermel, Peter	Poster #1476: 7/30 @ 1:30-2:30pm	Radiation Shield Adaptable to Complex Geometries for Microelectronics Testing	Nadine Yifei Poon† (Engineering)
Bermel, Peter	Talk #7084: 7/30 @ 3:20pm	Temperature Annealing Properties of a Commercial Optical Transceiver in the Subcritical Pile and Nuclear Reactor	Brandon Anthony Farbert† (Engineering)
Bernal, Ximena	Talk #7072: 7/30 @ 2:00pm	City Sounds: How Increasing Noise Impacts the Host-Seeking Behavior of a Frog-Biting Mosquito	Nina Rose Hall† (Science)
Bernal Neira, David Esteban	Talk #7020: 7/30 @ 11:40am	ChemOperator: A Reproducible Simulation Library for Chemical Engineering Operator Learning	Rohan Patel† (Engineering)
Bertin, François-René	Poster #1297: 7/30 @ 12:00-1:00pm	Effects of Equine Pituitary Pars Intermedia Dysfunction on Forelimb Bone Mineral Density and Calculated Bone Strength	Teegan Acres† (Purdue University)
Besiktepe, Deniz	Poster #1006: 7/30 @ 10:30-11:30am	A Comparative Life-cycle Assessment Workflow for Interpreting Divergence in Early-Stage Building Carbon Estimates	DANIEL SEARS GREGORY† (Polytechnic) Hope Rockmore-Johnson† (Engineering)
Besiktepe, Deniz	Poster #1007: 7/30 @ 10:30-11:30am	A Data-Sparse Workflow for Urban-Scale Building Energy Modeling Using Large Language Models	MIZUKI KUNO† (Polytechnic) AMBER JOSFIN RAMOS PINEDA† (Polytechnic)
Bharti, Saru	Poster #1052: 7/30 @ 10:30-11:30am	A Speech Command Interface and Sensing Pipeline for Agricultural Vehicles	Sidharth Bhatt†

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Bharti, Saru	Poster #1461: 7/30 @ 1:30-2:30pm	Investigating the Integration of Dense Vision and Non-Traditional Sensing Modalities for Robust Robotic Perception	Gabriel Torres† (Engineering)
Bhatnagar, Siddharth	Poster #1272: 7/30 @ 12:00-1:00pm	An Experimental Study on Ice Droplet Breakup Within the Purdue 3-Inch Shock Tube	Caleb Jonathan Radtke† (Engineering) Alex Perry† (Engineering)
Bhatnagar, Siddharth	Talk #7016: 7/30 @ 11:20am	Ice-Droplet Interaction with Supersonic Shock Waves	Alex Perry† (Engineering) Caleb Jonathan Radtke† (Engineering)
Bhattacharya, Ritwik	Poster #1103: 7/30 @ 10:30-11:30am	Role of Moisture on the Thermal Stability of Sodium-Ion Batteries	Abhaya Sundar† (Engineering Science)
Bhovad, Priyanka Balkrishna	Poster #1268: 7/30 @ 12:00-1:00pm	Developing Soft Growing Robot Delivery of Insect Scale Robots for Non-Destructive Inspection	Dominic Nathaniel Muniz† (Engineering) Ana Clara de Medeiros Morais‡ (Engineering)
Bhovad, Priyanka Balkrishna	Talk #7077: 7/30 @ 3:40pm	Soft Growing Robot Cap's Sensor Integration	Ana Clara de Medeiros Morais† (Engineering) Dominic Nathaniel Muniz‡ (Engineering)
Bilenky, Moriah Tziviv	Poster #1493: 7/30 @ 1:30-2:30pm	Cover crop-based No-till Strategies for Organic Garlic Production	Hannah Everette† (Agriculture) Mia Constance Schecter‡ (Agriculture) Keirstyn Amponsah‡ (Agriculture)
Bilionis, Ilias	Poster #1456: 7/30 @ 1:30-2:30pm	Joint Registration and Pathology Detection in CT via Diffeomorphic Neural Optimal Transport	Ziqi Shen† (Engineering)
Biller, Stephan Robert	Talk #7046: 7/30 @ 1:20pm	Risk Exposure of U.S. Industry Sectors to Oil Price Shocks	Santiago Melo Munoz† (Engineering)
Birute, Annabel	Talk #7081: 7/30 @ 3:00pm	The Impact of a Snack Inspired by the Dieta de la Milpa on Cardiovascular-Kidney-Metabolic Health in Hispanic Individuals	Kaylei Lank† (PWL) William Scott Akert‡ (PWL) Seyedeh Nooshan Mir mohammad ali‡ (HHS) Brandon M Kistler‡ (HHS) Allison Melissa Meilner Moffitt‡ (PWL)
Biswas, Sourish	Poster #1067: 7/30 @ 10:30-11:30am	Development of an Efficient, Synthetic Pathway for Large Scale Atipamezole Manufacturing	Kira Howe† (Science)
Block, Joshua Mark	Poster #1053: 7/30 @ 10:30-11:30am	FractureTAU: A Spatiotemporal-Attention Deep-Learning Surrogate for Long-Horizon Fracture Forecasting in Microstructures	Juan I Cantarella† (Engineering)
Blumenschein, Laura Helen	Poster #1268: 7/30 @ 12:00-1:00pm	Developing Soft Growing Robot Delivery of Insect Scale Robots for Non-Destructive Inspection	Dominic Nathaniel Muniz† (Engineering) Ana Clara de Medeiros Morais‡ (Engineering)
Blumenschein, Laura Helen	Talk #7077: 7/30 @ 3:40pm	Soft Growing Robot Cap's Sensor Integration	Ana Clara de Medeiros Morais† (Engineering) Dominic Nathaniel Muniz‡ (Engineering)
Boltasseva, Alexandra	Poster #1267: 7/30 @ 12:00-1:00pm	Orientation Dependent Excitonic Coupling and Purcell Enhancement in MoOCl ₂ -TMDC Heterostructures	Ryan Y Manley† (Engineering)
Boltasseva, Alexandra	Poster #1306: 7/30 @ 12:00-1:00pm	Bridging Electrical and Optical Characterization of Gallium-Doped ZnO for Tailorable Epsilon-Near-Zero Photonics	Saishri Bagde† (Engineering) Muhammad Mahdi Marzan‡ (Engineering JMHC) Geetika Chitturi‡ (Engineering JMHC)
Boody, Christina Marie	Poster #1465: 7/30 @ 1:30-2:30pm	The Role of ARHGAP21 in the Egg-to-Embryo Transition of Mammalian Metaphase II Oocytes	Sophie J Wilcox† (Pharmacy)

Name	Presentation	Title	Students
Borovsky, Arielle	Talk #7017: 7/30 @ 11:40am	Building Morphosyntactic Networks for Precision Assessment and Intervention in Preschool-aged Children	Ronald Liu Tsai† (Liberal Arts Science)
Boylan, Sean T	Poster #1046: 7/30 @ 10:30-11:30am	Exposure to Online Content and the Perceived Violence of Religious Outgroups	Eunice Zhang† (Wellesley College) Corey Peter Resweber* (Liberal Arts)
Brammanayagam venkatesan, Ganesh	Poster #1232: 7/30 @ 12:00-1:00pm	Evaluation and Analysis of Low-GWP Refrigerant-Lubricant Miscibility for Ultra-Low Temperature Applications	Emma Caron† (Engineering JMHC)
Bramson, Ali	Poster #1230: 7/30 @ 12:00-1:00pm	Developing a Cave Virtual Reality Application for Geoscience Education using Collaborative Design to Establish Learning Goals	Anushka Bhavet† (Polytechnic) Hiya Samanta‡ (Science)
Bramson, Ali	Poster #1277: 7/30 @ 12:00-1:00pm	Evaluating LiDAR Parameters for Immersive and Educational VR Cave Environments	Hiya Samanta† (Science) Anushka Bhavet‡ (Polytechnic)
Bramson, Ali	Talk #7008: 7/30 @ 10:40am	Radar-Based Identification of Buried Lava Flows in the Moon's South Pole-Aitken Basin	Liliana Triscari† (Science) Aaron Lee Perrault* (Science) Miah KeAnna Sinks* (Science)
Brauer, Nickolas Richard	Poster #1102: 7/30 @ 10:30-11:30am	Synthesis of Dual-Action Inhibitors of HDAC-III and HIV Protease	Nicholas Audrie Steeves† (Science)
Broyles, Bianca Shaunessy	Poster #1463: 7/30 @ 1:30-2:30pm	Binding Frequency Mapping: A Broadly Applicable Structure for Comprehending Antibody Reactions in Various Viral Pathogens	Clayton Walden† (Science)
Brunswick, Sabine	Poster #1483: 7/30 @ 1:30-2:30pm	Reinforcement Learning for fixed-wing path planning with feasibility evaluation	Kaya Aypek† (Engineering) Adam Zhang‡ (Science)
Brunswick, Sabine	Talk #7009: 7/30 @ 10:00am	Vision-Based Runway Detection	Kabir Jain† (Science)
Brunswick, Sabine	Talk #9009: 7/27-7/31 virtually	Bayesian Parameter Estimation for Nonlinear Dynamical Systems	Ansh Grover† (Science)
Bryant, Roger Nicholas	Poster #1309: 7/30 @ 12:00-1:00pm	Towards tracing coastal oxygenation patterns through Eastern oyster shells	Mia R Hannah† (Science)
Budimir, Zachary Logan	Poster #1499: 7/30 @ 1:30-2:30pm	Uncovering Structural Determinants of Substrate Scope in a Peptide Cyclase Enzyme Family	Lucas O Johnson† (Science)
Buerke, Cameron James	Poster #1296: 7/30 @ 12:00-1:00pm	Developing a Gate Boosted Pulse Generator to Drive Gas Discharge Tube Based Nonlinear Transmission Line System	Luke Alexander Trahin† (Engineering) Samuel Christian Olenick* (Engineering)
Bush, Marlyn Michelle	Poster #1218: 7/30 @ 12:00-1:00pm	Characterizing the Role of Mouse Granzyme A in LPS-Mediated Inflammation	Anika Vaz† (Purdue University) Samantha Sarah Lin‡ (Pharmacy JMHC)
Bush, Marlyn Michelle	Talk #7053: 7/30 @ 1:40pm	Thermosensitive Histidine Dehydrogenase (HisD) Mutants in Salmonella typhimurium	Olivia Nicole Safranek† (Science) Ruoqin Rachel Yang* (Science)
Byrn, Stephen Robert	Poster #1023: 7/30 @ 10:30-11:30am	Investigating Solvent and Processing Effects on ROY Polymorph Crystallization for Pharmaceutical Intermediate Purification	Andrew Lucas Freuman† (Agriculture Engineering) Bailey Elizabeth Freese‡ (Engineering Vet Med) Annalise Irene Coyne‡ (Agriculture Engineering JMHC) Jose Luis Melendez‡ (Agriculture Engineering)
Cai, Chao	Poster #1014: 7/30 @ 10:30-11:30am	Silencing of Mutator Element in Maize	Kit Hill† (PWL)
Cai, Chao	Poster #1019: 7/30 @ 10:30-11:30am	Mapping the RLCK Interactome in Tomato Immunity Using Proteomics	Bella Turnbull† (PWL)

Students' Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Cai, Chao	Poster #1020: 7/30 @ 10:30-11:30am	Regulation of terpene biosynthesis in <i>Nicotiana tabacum</i> by an isopentenyl diphosphate transporter	Leah Wong [†] (PWL)
Caldwell, Denise L	Poster #1281: 7/30 @ 12:00-1:00pm	Contribution of roots vs shoots to adaptive cold acclimation in <i>Arabidopsis thaliana</i>	Colleen Ryan Squier [†] (Agriculture) Stephanie Tirado Rojas* (Agriculture)
Carlson, Erica	Poster #1282: 7/30 @ 12:00-1:00pm	Modeling Vanadium Dioxide for Neuromorphic Computing	Vincent Stavig [†] (Science)
Carpenter, Mina	Poster #1265: 7/30 @ 12:00-1:00pm	Skip Diene Synthesis Through Reductive Heck-Type Reactions	Ailuen Liu [†] (Science)
Carroll, Chad C	Poster #1485: 7/30 @ 1:30-2:30pm	Reproducibility and accuracy of thigh musculature volumetric data analysis derived from axial MRI scans: 3D Slicer vs. Horos	Jacob Bastian [†] (PWL)
Castiblanco Rubio, Fabio Andres	Poster #1052: 7/30 @ 10:30-11:30am	A Speech Command Interface and Sensing Pipeline for Agricultural Vehicles	Sidharth Bhatt [†]
Castiblanco Rubio, Fabio Andres	Poster #1073: 7/30 @ 10:30-11:30am	Route-Aware and Uncertainty-Aware Traversability Planning for Safe Detours and Route Rejoining in Agricultural Field Autonomy	Kyungmin Kim [†] (Engineering Science)
Castiblanco Rubio, Fabio Andres	Poster #1240: 7/30 @ 12:00-1:00pm	Project Rosa: An Off-Grid Edge Computing Gateway for Agricultural Data	Pavle Duric [†] (Engineering Polytechnic) Spencer Michael Beane* (Engineering) Keri Lyn Christman* (PWL)
Castiblanco Rubio, Fabio Andres	Poster #1256: 7/30 @ 12:00-1:00pm	Agricultural-Vehicle-Based Radio-Frequency Readout System for Underground Biodegradable Sensors and Batteries	Pataraphol Keeraswangporn [†] (Engineering)
Castillo, Alberto	Talk #7079: 7/30 @ 3:20pm	Investigating Performance of Nanosilica and Non-traditional and Natural Pozzolans in Type II Cementitious systems	Aryan Daga [†] (Engineering)
Castillo, Zoila	Talk #7066: 7/30 @ 2:00pm	Supply chain regionalization and the viability of an AI server hub for Latin America: a system dynamics analysis of Panama	Natasha Catherine Farias Cisneros [†] (PWL)
Castillo Jimenez, Andres Catalino	Poster #1050: 7/30 @ 10:30-11:30am	Computational Investigation of Actin Cytoskeleton in Plant Cells	Rishab Anand [†] (Engineering)
Castillo Jimenez, Andres Catalino	Poster #1061: 7/30 @ 10:30-11:30am	Tiam1 as a candidate mediator for Calcium-dependent actin remodeling events in the egg-to-embryo transition	Auriani Faviola Gomez Cintron [†] (Engineering)
Castillo Jimenez, Andres Catalino	Poster #1076: 7/30 @ 10:30-11:30am	Learning-Based Projection Methods for Nonconvex Constrained Optimization	Akhil Kota [†] (Engineering)
Castillo Jimenez, Andres Catalino	Poster #1088: 7/30 @ 10:30-11:30am	Selective Delamination of Lithium-Ion Battery Cathodes Using Mild Alkaline System for Direct Recycling	Sohyun Moon [†] (Engineering)
Castillo Jimenez, Andres Catalino	Poster #1227: 7/30 @ 12:00-1:00pm	Quantitative Analysis of Shape and Topological Changes in EVL Cells during zebrafish epiboly	Garv Atri [†] (Engineering Science)
Castillo Jimenez, Andres Catalino	Poster #1235: 7/30 @ 12:00-1:00pm	Towards translating Low Frequency Alternating Current (LFAC) stimulation for modulating bladder function	Martinos Christodoulides [†] (Engineering)
Castillo Jimenez, Andres Catalino	Poster #1259: 7/30 @ 12:00-1:00pm	Imaging and analysis of pSmad signaling following optogenetic BMP activation in zebrafish embryogenesis	Emma M Kindwall [†] (Engineering)

Students' Role Notations: [†]Presenting Author, [‡]Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Castillo Jimenez, Andres Catalino	Poster #1289: 7/30 @ 12:00-1:00pm	SCOUT: An in-vivo Methane Sensing System for Real-time Monitoring of Enteric Emissions in Cattle	Zihan O Zeng [†] (Engineering JMHC)
Castillo Jimenez, Andres Catalino	Poster #1410: 7/30 @ 1:30-2:30pm	Complex biological process modelling using Bayesian Optimization	Eeshwar Ram Chalasani [†] (Engineering)
Castillo Jimenez, Andres Catalino	Poster #1419: 7/30 @ 1:30-2:30pm	Assessment of Quantity- and Quality-Related Skeletal Properties in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes	Ava Fuchs [†] (Engineering) Isabelle Anne Hunt [‡] (Engineering) Jennifer Marie Bowles [‡] (Engineering) Sachenka Katrina Angel Aranguena [‡] (Engineering)
Castillo Jimenez, Andres Catalino	Poster #1432: 7/30 @ 1:30-2:30pm	Design and Simulation of a 64 MHz Birdcage Antenna System with a Reflective Cap for Non-Invasive Alzheimer's Disease Therapy	Hao-Chen Li [†] (Engineering)
Castillo Jimenez, Andres Catalino	Poster #1452: 7/30 @ 1:30-2:30pm	The Emerging Role of Agentic AI in Transportation and Logistics	Reyam Roumeih [†] (Engineering)
Castillo Jimenez, Andres Catalino	Poster #1457: 7/30 @ 1:30-2:30pm	Resolution restoration and segmentation of two-photon dendritic spine images using deep learning-based algorithms	Leonor Antunes Sinogas [†] (Science)
Castillo Jimenez, Andres Catalino	Poster #1465: 7/30 @ 1:30-2:30pm	The Role of ARHGAP21 in the Egg-to-Embryo Transition of Mammalian Metaphase II Oocytes	Sophie J Wilcox [†] (Pharmacy)
Castillo Jimenez, Andres Catalino	Talk #7018: 7/30 @ 11:00am	Force Generation and Contraction of the Actin Cytoskeleton	Vahin Pichairaj [†] (Engineering)
Castillo Jimenez, Andres Catalino	Talk #7032: 7/30 @ 12:40pm	Compact Single-Shot Ranging, Locating and Multi-Scale Imaging Using Metasurfaces	Roy Liu [†] (Engineering)
Castillo Jimenez, Andres Catalino	Talk #7047: 7/30 @ 1:40pm	Computational Design and Optimization of Functionally Graded TPMS Heat Exchangers	Wyatt Soberg Catz [†]
Castillo Jimenez, Andres Catalino	Talk #7060: 7/30 @ 2:00pm	Characterizing Structural and Mechanical Femoral Outcomes in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes	Isabelle Anne Hunt [†] (Engineering) Ava Fuchs [‡] (Engineering) Sachenka Katrina Angel Aranguena [‡] (Engineering) Jennifer Marie Bowles [‡] (Engineering)
Castro, Daniel Francisco	Poster #1480: 7/30 @ 1:30-2:30pm	Guardrail information model: A traceable AI agent methodology for reducing information loss in 2D infrastructure plans.	Luis Felipe Pardo Diaz [†] (Polytechnic)
Castro Mesa, Daniel	Talk #7002: 7/30 @ 10:40am	Event and Passing Detection for Football (Soccer)	Boyang Zhang [†] (Engineering) Pranav Tallapaka [‡] (Engineering)
Castro Mesa, Daniel	Talk #7076: 7/30 @ 3:20pm	Movement Pattern Analysis in Football (Soccer)	Pranav Tallapaka [†] (Engineering) Boyang Zhang [‡] (Engineering)
Chaganzhana, FNU	Poster #1031: 7/30 @ 10:30-11:30am	Comparison of CAND1 and CAND2 Dissociation Rates from CUL2	Seojin Paek [†] (Agriculture)
Chan, Deva	Poster #1274: 7/30 @ 12:00-1:00pm	Using μ CT to Visualize Bone Degradation Caused by PTOA	Amrita Rani Raparti [†] (Engineering)
Chang, Amy	Talk #7024: 7/30 @ 11:00am	Digital Inline Holographic Particle Tracking Velocimetry for High-Image-Density Particle Erosion Characterization	Yi Yang Hsu [†] (Engineering)
Chang, Amy	Talk #7040: 7/30 @ 12:20pm	Buildup, Instrumentation, and Optical Diagnostics for the Purdue High-speed Automated Sand Erosion Rig (PHASER)	Justin Babilino [†] (Engineering JMHC)
Chang, Chao-Hsiang	Talk #7035: 7/30 @ 12:40pm	Cellulose Nanocrystals as a Biotemplate for Gold Nanomaterial Synthesis	Raina Wang [†] (Engineering) Halaya Vann [‡] (Engineering)

Students' Role Notations: [†]Presenting Author, [‡]Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Chang, Chao-Hsiang	Talk #7062: 7/30 @ 2:40pm	Synthesis of biotemplated palladium-coated nanorods on cellulose nanocrystals	Halaya Vann [†] (Engineering) Raina Wang [‡] (Engineering)
Chang, Shen	Talk #9018: 7/27-7/31 virtually	A Stability-Aware Machine Learning Framework for Immune-Related Prognostic Gene Signatures in Breast Cancer Relapse	Ramya Prasanna [†] (Science JMHC)
Chang, Shen	Talk #9020: 7/27-7/31 virtually	A Cloud-deployed Platform to Generate Expert-Annotated Data for AI-assisted Nursing Skills Assessment	Eric Tang [†] (Science)
Chang, Soowon	Poster #1006: 7/30 @ 10:30-11:30am	A Comparative Life-cycle Assessment Workflow for Interpreting Divergence in Early-Stage Building Carbon Estimates	DANIEL SEARS GREGORY [†] (Polytechnic) Hope Rockmore-Johnson [†] (Engineering)
Chang, Soowon	Poster #1007: 7/30 @ 10:30-11:30am	A Data-Sparse Workflow for Urban-Scale Building Energy Modeling Using Large Language Models	MIZUKI KUNO [†] (Polytechnic) AMBER JOSFIN RAMOS PINEDA [†] (Polytechnic)
Chang, Soowon	Poster #1480: 7/30 @ 1:30-2:30pm	Guardrail information model: A traceable AI agent methodology for reducing information loss in 2D infrastructure plans.	Luis Felipe Pardo Diaz [†] (Polytechnic)
Chang, Younggil	Talk #7043: 7/30 @ 12:20pm	Evaluation of Control Strategies for Drone Path Tracking and Cooperative Multi-Agent Exploration of Indoor Environments	Ediz Guzey [†] (PWL)
Chapple, Clint C S	Poster #1036: 7/30 @ 10:30-11:30am	Evaluating the role of coniferyl alcohol and pinosresinol in lateral root density in <i>Arabidopsis thaliana</i>	Sahana Srinivasan [†] (Agriculture) Chase Taylor Hearn [‡] (Agriculture)
Chatzidakis, Stylianos	Poster #1476: 7/30 @ 1:30-2:30pm	Radiation Shield Adaptable to Complex Geometries for Microelectronics Testing	Nadine Yifei Poon [†] (Engineering)
Chawla, Nikhilesh	Poster #1269: 7/30 @ 12:00-1:00pm	Three Dimensional (3D) Imaging and Analysis of Damage in Sn-Ag-Cu Solder Ball Grid Arrays Under Thermal Cycling	Abhishek Manoj Nair [†] (Engineering Libraries)
Chen, Han	Poster #1041: 7/30 @ 10:30-11:30am	Evaluating Consumer Acceptance of Aquaponically Grown Lettuce Following Exposure to an Informative Label	Kiara C. Méndez Serrano [†] (PWL)
Chen, Man	Poster #1091: 7/30 @ 10:30-11:30am	Investigating Acute Responses to Mild Blast Traumatic Brain Injury in an in vitro Human Tau-Expressing Neuronal Model	Natalia Nino Cocoma [†] (Vet Med)
Chen, Po-Yu	Poster #1282: 7/30 @ 12:00-1:00pm	Modeling Vanadium Dioxide for Neuromorphic Computing	Vincent Stavig [†] (Science)
Chen, Xiaoling	Poster #1444: 7/30 @ 1:30-2:30pm	Loss-of-function Mutations in the SCN2A Gene Cause Structural and Functional Deficiencies in Human Cortico-striatal Circuitry	Jannah M Noshi [†] (Science JMHC)
Chen, Yingjie	Poster #1403: 7/30 @ 1:30-2:30pm	A Multi-Modal iOS App for Interview Transcript Capture and LLM-Based Entity Extraction in Opioid Recovery Pathway Mapping	Prisha Marpu [†] (Centers & Institutes)
Cheoh, Jia Lin	Poster #1047: 7/30 @ 10:30-11:30am	Standardized histological protocol to characterize cochlear synaptopathy in chinchillas after noise or blast exposure	Maria Catalina Aceros [†] (Engineering)
Cheoh, Jia Lin	Poster #1107: 7/30 @ 10:30-11:30am	Automated Wafer-Level Electrical Testing Workflow for RRAM Characterization	Minghan Wang [†] (Engineering)

Name	Presentation	Title	Students
Cheoh, Jia Lin	Poster #1226: 7/30 @ 12:00-1:00pm	Radiation Cascade Studies in GST-C Using Molecular Dynamics	Agustin Abt [†] (Engineering) Aryan Rauniyar [‡] (Engineering)
Cheoh, Jia Lin	Poster #1260: 7/30 @ 12:00-1:00pm	Automated Radio Evaluation Suite: Modular Testing Architecture	Joseph Timothy Krittenbrink [†] (Engineering)
Cheoh, Jia Lin	Poster #1267: 7/30 @ 12:00-1:00pm	Orientation Dependent Excitonic Coupling and Purcell Enhancement in MoOCl ₂ -TMDC Heterostructures	Ryan Y Manley [†] (Engineering)
Cheoh, Jia Lin	Poster #1288: 7/30 @ 12:00-1:00pm	Characterization of Benzothiazolium Ligand Binding to MYC G-quadruplex DNA using Biophysical Methods	Lorelei B Xia [†] (Pharmacy)
Cheoh, Jia Lin	Poster #1406: 7/30 @ 1:30-2:30pm	Using UK Biobank Data to Investigate the Link Between Type 2 Diabetes and Alzheimer's Disease	Zoe Amerman [†] (Engineering)
Cheoh, Jia Lin	Poster #1409: 7/30 @ 1:30-2:30pm	Experimental Characterization of Vent-Gas Ignition During Lithium-Ion Battery Thermal Runaway	Nicolas Bustamante [†] (Engineering)
Cheoh, Jia Lin	Poster #1413: 7/30 @ 1:30-2:30pm	Mosaic Background Reconstruction for Fencing Video Preprocessing	Andrew Thomas Choung [†] (Engineering) Jacob Lee Prior [*] (Engineering)
Cheoh, Jia Lin	Poster #1414: 7/30 @ 1:30-2:30pm	Utilizing AC Field-Generated Pearl Chains to Deter Early-Stage Biofilm Formation	John G Christian [†] (Engineering)
Cheoh, Jia Lin	Poster #1442: 7/30 @ 1:30-2:30pm	A Comparative Evaluation of Machine Learning Models for Heat Conduction Problems	Malavika Nair [†] (Engineering)
Cheoh, Jia Lin	Poster #1449: 7/30 @ 1:30-2:30pm	Automation Methods for Gamma Ray Spectroscopy and Data Analysis	Truman Carl Parrish [†] (Science) Ananya Molugu [†] (Science)
Cheoh, Jia Lin	Poster #1458: 7/30 @ 1:30-2:30pm	Analysis of Fast Tuning Methods for Cross Coupled Resonator Cavity Filters	Peter Robertson Skrdla [†] (Engineering) Joseph Timothy Krittenbrink [*] (Engineering)
Cheoh, Jia Lin	Poster #1464: 7/30 @ 1:30-2:30pm	Experimental Design and Prototyping for TPMS Condensers in Data Centers	Serena Yuanyuan Wei [†] (Engineering Science)
Cheoh, Jia Lin	Talk #7003: 7/30 @ 10:00am	BioreactorMR: An AI-Augmented Mixed-Reality Tool for Collaborative Bioreactor Education	Azeem Ehtisham [†] (Polytechnic)
Chew, Ismar Leonel	Poster #1121: 7/30 @ 10:30-11:30am	Effect of UV Intensity and Particle Type on the Cure Depth of Photocurable Molding Powders	Kym-Danny Dyah Francis [†] (Engineering)
Chinnenahalli Beeralinga, Nagabhushana	Poster #1204: 7/30 @ 12:00-1:00pm	Evaluation of the Putative ADAR1 Inhibitors, ADAR1i-124 and NAG638	Savannah Doty [†] (Grand Canyon University) Estelle Nour Gardner [‡] (Agriculture)
Chiu, Yu-Chin	Poster #1040: 7/30 @ 10:30-11:30am	Can rewarding task-switching increase cognitive flexibility?	Dylan Matthew Diaz [†] (PWL)
Chmielewski, Jean A	Poster #1102: 7/30 @ 10:30-11:30am	Synthesis of Dual-Action Inhibitors of HDAC-III and HIV Protease	Nicholas Audrie Steeves [†] (Science)
Choi, Jae Ik	Poster #1306: 7/30 @ 12:00-1:00pm	Bridging Electrical and Optical Characterization of Gallium-Doped ZnO for Tailorable Epsilon-Near-Zero Photonics	Saishri Bagde [†] (Engineering) Muhammad Mahdi Marzan [‡] Geetika Chitturi [‡] (Engineering JMHC)
Choi, Kyu Ri	Poster #1306: 7/30 @ 12:00-1:00pm	Bridging Electrical and Optical Characterization of Gallium-Doped ZnO for Tailorable Epsilon-Near-Zero Photonics	Saishri Bagde [†] (Engineering) Muhammad Mahdi Marzan [‡] Geetika Chitturi [‡] (Engineering JMHC)
Choi, Yooseung	Poster #1066: 7/30 @ 10:30-11:30am	Micro-Morphing Aerial Vehicle for Passive Controlled Descent	Jamie Chanadol Henson [†] (Engineering) Kai X Keller [†] (Engineering)

Name	Presentation	Title	Students
Choi, Yooseung	Poster #1258: 7/30 @ 12:00-1:00pm	Deployment of Autonomous and Passive Micro-Morphing Aerial Vehicles (MMAVs)	Kai X Keller† (Engineering) Jamie Chanadol Henson† (Engineering) Nhuan Boi Duong‡ Haoyu Zhang‡ (Engineering)
Chung, Jennifer	Poster #1044: 7/30 @ 10:30-11:30am	Combating Anti-Transgender Misinformation with Psychological Interventions	Dannah Rose Urban† (PWL)
Chynoweth, Brandon C	Poster #1272: 7/30 @ 12:00-1:00pm	An Experimental Study on Ice Droplet Breakup Within the Purdue 3-Inch Shock Tube	Caleb Jonathan Radtke† (Engineering) Alex Perry† (Engineering)
Chynoweth, Brandon C	Talk #7016: 7/30 @ 11:20am	Ice-Droplet Interaction with Supersonic Shock Waves	Alex Perry† (Engineering) Caleb Jonathan Radtke† (Engineering)
Chynoweth, Brandon C	Talk #7023: 7/30 @ 11:40am	Impact of Varying Wall Temperature on Hypersonic Boundary-Layer Transition	Michael Oscar Greenlee† (Engineering)
Clark, Alexandra Blair	Poster #1048: 7/30 @ 10:30-11:30am	Impact of Surface Mineralogy on Calcite Precipitation on Yates Amphibolite: A Combined X-ray CT and SEM-EDS Approach	Bolortsetseg Adiya† (Science)
Clark, Alexandra Blair	Poster #1263: 7/30 @ 12:00-1:00pm	Deformation of Fracture Networks Under Normal Loading	Anastasia Patricia Lesniewski† (Liberal Arts Science) Connor Siurek* (Science)
Clase, Kari L	Poster #1023: 7/30 @ 10:30-11:30am	Investigating Solvent and Processing Effects on ROY Polymorph Crystallization for Pharmaceutical Intermediate Purification	Andrew Lucas Freuman† (Agriculture Engineering) Bailey Elizabeth Freese‡ (Engineering Vet Med) Annalise Irene Coyne‡ (Agriculture Engineering JMHC) Jose Luis Melendez‡ (Agriculture Engineering)
Cloft, Sara Elizabeth	Poster #1322: 7/30 @ 12:00-1:00pm	Lighting conditions shape visual perception of objects across pasture, aviary, and enriched colony housing systems	Julian Leonard Smith† (Agriculture)
Cloft, Sara Elizabeth	Poster #1324: 7/30 @ 12:00-1:00pm	The Effect of Unit Distance on Flock Integration in Free-Range Laying Hens on Pasture	Shanell Andria Taylor† (Agriculture)
Collard, Diane	Poster #1064: 7/30 @ 10:30-11:30am	Geometric Control of Drug Release in Additively Manufactured Dosage Forms Using Vibration-Assisted Printing	Vincent John Graciano† (Engineering)
Collins, Alexander Charles	Poster #1027: 7/30 @ 10:30-11:30am	The Influence of Drought Conditions on Freshwater Mussel Movement in Indiana Rivers	Eva Corinne Morie† (Agriculture Engineering) Alexis M Howat* (Agriculture)
Condie, Micah Kurt	Poster #1427: 7/30 @ 1:30-2:30pm	Extending Rumoca with eFMI GALEC for Embedded Controller Generation	Pradyunn Vikram Kale† (Engineering)
Cong, Yan	Poster #1223: 7/30 @ 12:00-1:00pm	Evaluation of Visual Language Models Through Narrative Sensory Framing	Lena Yvonne Grace Rotteveel† (PWL)
Coon-Haworth, MacKenzie	Poster #1252: 7/30 @ 12:00-1:00pm	Evaluating Grid Collimator Spatial Configurations to Maximize Bystander Effects in Spatially Fractionated Radiation Therapy	Kenli Hetrick† (HHS) Pia Kapur‡ (Centers & Institutes)
Cooper, Austin Rory	Poster #1402: 7/30 @ 1:30-2:30pm	Political and Military Aspects of NATO's Flexible Response	Robert Humphreys† (Centers & Institutes)
Cordoba Renteria, Sandra Patricia	Talk #7011: 7/30 @ 10:40am	Pulse-Flow Reverse Osmosis	Taher Mustafa Mukadam† (Engineering) Mackenzie Hathaway* (Engineering JMHC)

Students' Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Corman, Brianna N	Poster #1028: 7/30 @ 10:30-11:30am	Decreased Raman Spectroscopic Carotenoid Bands Indicate Oxacillin-Induced Stress in <i>Staphylococcus aureus</i>	Sophia Morris† (Agriculture JMHC)
Cottingham, Kendall	Poster #1205: 7/30 @ 12:00-1:00pm	Exploring Rm62 involvement in aging as a regulator of R-loop homeostasis	Kendra Eller† (Agriculture) Louis Michael Delaby* (JMHC)
Cottrell, Kyle Aaron	Poster #1204: 7/30 @ 12:00-1:00pm	Evaluation of the Putative ADAR1 Inhibitors, ADAR1i-124 and NAG638	Savannah Doty† (Grand Canyon University) Estelle Nour Gardner‡ (Agriculture)
Cottrell, Kyle Aaron	Talk #7012: 7/30 @ 10:00am	Determining Regulation of PACT via Phosphorylation in TNBC	Keeley Ann Rohrer† (Agriculture JMHC)
Coulter, Jeffery Robert	Talk #7018: 7/30 @ 11:00am	Force Generation and Contraction of the Actin Cytoskeleton	Vahin Pichairaj† (Engineering)
Crawford, Melba M	Poster #1100: 7/30 @ 10:30-11:30am	Using UAV-Based Hyperspectral and LiDAR to Estimate Leaf Area Index in Maize	Daniela Solarte Rodriguez† (Engineering)
Crawford, Melba M	Poster #1109: 7/30 @ 10:30-11:30am	An Integrated Processing and Interference Quality-Check Tool for Drone-Collected Synthetic Aperture Radar Data	Ryan Wu† (Engineering)
Cruz Santos, Deise	Poster #1118: 7/30 @ 10:30-11:30am	Exploratory Analysis of Plasma Lipid Profiles in Largemouth Bass Across a PFAS Exposure Gradient	Maria Jose Suarez Monroy† (PWL)
Csonka, Laszlo	Poster #1110: 7/30 @ 10:30-11:30am	Analysis of temperature-sensitive mutations in <i>Salmonella typhimurium</i>	Ruoqin Rachel Yang† (Science) Olivia Nicole Safranek‡ (Science)
Csonka, Laszlo	Talk #7053: 7/30 @ 1:40pm	Thermosensitive Histidine Dehydrogenase (HisD) Mutants in <i>Salmonella typhimurium</i>	Olivia Nicole Safranek† (Science) Ruoqin Rachel Yang* (Science)
Currie, Easton Luke-Earl	Poster #1078: 7/30 @ 10:30-11:30am	Teaching AI to See Past Style: A Reproducible CAPTCHA-Style Tool for Curating Invariant Image Pairs	Andre Lee† (Engineering) Akshith Garapati‡ (Engineering)
Czerwonky, David Matthew	Poster #1058: 7/30 @ 10:30-11:30am	A Semi-Automated Pipeline for Generating Finite Element Models of Plant Cells from Confocal Microscopy	Guilherme de Souza Correa† (Engineering)
Czerwonky, David Matthew	Poster #1067: 7/30 @ 10:30-11:30am	Development of an Efficient, Synthetic Pathway for Large Scale Atipamezole Manufacturing	Kira Howe† (Science)
Czerwonky, David Matthew	Poster #1071: 7/30 @ 10:30-11:30am	Optimization of Wafer-Scale MoSe ₂ Growth via Molecular Beam Epitaxy	Brayden Kauffmann† (Science) Aditya H Joshi‡ (Engineering)
Czerwonky, David Matthew	Poster #1086: 7/30 @ 10:30-11:30am	Synthesis of novel ligands to improve reactivity and selectivity of organometallic reactions through electric field catalysis	Sophia D Madrazo† (Science)
Czerwonky, David Matthew	Poster #1094: 7/30 @ 10:30-11:30am	Extraction and Purification of Elastin-Like Polypeptides for Layer-by-Layer Nanoparticle-Mediated mRNA Delivery	Yixuan Ren† (Science) Hayden Schneider* (Science JMHC) Steven Quocviet Phan* (Pharmacy)
Czerwonky, David Matthew	Poster #1096: 7/30 @ 10:30-11:30am	Characterization of Dual dsDNA tetrahedra assembly conditions	Nasser H Sanwari† (Engineering Science) Rebecca Rose Phelan* (Engineering)
Czerwonky, David Matthew	Poster #1102: 7/30 @ 10:30-11:30am	Synthesis of Dual-Action Inhibitors of HDAC-III and HIV Protease	Nicholas Audrie Steeves† (Science)
Czerwonky, David Matthew	Poster #1103: 7/30 @ 10:30-11:30am	Role of Moisture on the Thermal Stability of Sodium-Ion Batteries	Abhaya Sundar† (Engineering Science)
Czerwonky, David Matthew	Poster #1112: 7/30 @ 10:30-11:30am	Experimental Metathesis Low-salt-rejection Reverse Osmosis for Improved Resource Recovery	Kai-Xing Yue† (Engineering)

Name	Presentation	Title	Students
Czerwonky, David Matthew	Poster #1231: 7/30 @ 12:00-1:00pm	Development of a Comfortable, Wearable, Cut-Resistant Hockey Neck Guard	Cole J Burnett† (Engineering) Nicolas Gomez Velasquez‡ (Engineering)
Czerwonky, David Matthew	Poster #1232: 7/30 @ 12:00-1:00pm	Evaluation and Analysis of Low-GWP Refrigerant-Lubricant Miscibility for Ultra-Low Temperature Applications	Emma Caron† (Engineering JMHC)
Czerwonky, David Matthew	Poster #1241: 7/30 @ 12:00-1:00pm	Functionalized DNA Tetrahedra for siRNA Delivery Across the Blood–Brain Barrier	Emma Foster† (Engineering Science)
Czerwonky, David Matthew	Poster #1246: 7/30 @ 12:00-1:00pm	An Empirical Study of LLM-Driven Microwave Circuit Design	Elijah Goodman† (Rochester Institute of Technology)
Czerwonky, David Matthew	Poster #1248: 7/30 @ 12:00-1:00pm	Using SAM2 for Floe Size Distribution Analysis	Caleb Carr Hamilton† (Engineering)
Czerwonky, David Matthew	Poster #1262: 7/30 @ 12:00-1:00pm	AURAMCP: Enhancing nanoHUB's FAIR Workflows and Data through MCP Servers	Yoon gi Lee† (Engineering)
Czerwonky, David Matthew	Poster #1263: 7/30 @ 12:00-1:00pm	Deformation of Fracture Networks Under Normal Loading	Anastasia Patricia Lesniewski† (Liberal Arts Science) Connor Siurek* (Science)
Czerwonky, David Matthew	Poster #1265: 7/30 @ 12:00-1:00pm	Skip Diene Synthesis Through Reductive Heck-Type Reactions	Ailuen Liu† (Science)
Czerwonky, David Matthew	Poster #1285: 7/30 @ 12:00-1:00pm	Design and Automated Characterization Infrastructure for CMOS+X Integrated Systems	Henan Wang† (Engineering)
Czerwonky, David Matthew	Poster #1423: 7/30 @ 1:30-2:30pm	Bone-Targeted Radioligand Therapy for Multiple Myeloma	Juyeon Im† (Science) Yunsuk Lee‡ (HHS) Tara Ruslen Blanc‡ (Science)
Czerwonky, David Matthew	Poster #1426: 7/30 @ 1:30-2:30pm	Characterization and Optimization of Mycelium-based Membrane Distillation with Feed-Side Fins	Dev Vishwash Joshi† (Engineering)
Czerwonky, David Matthew	Poster #1428: 7/30 @ 1:30-2:30pm	Experimental validation of a Coupled Eulerian-Lagrangian model to predict granular discharge in industrial hoppers.	Abel Paul Sholey Kallely† (Engineering)
Czerwonky, David Matthew	Poster #1438: 7/30 @ 1:30-2:30pm	Producing Rocket Fuel on Mars: A Thermodynamic Analysis of Separating Perchlorate Salts from Martian Brine	Sahda Mohammadu Haroon† (Engineering) Isaac Parks* (Engineering) Tejas Pandit* Princess Gloria Onyinyechi Okoli* (Engineering)
Czerwonky, David Matthew	Poster #1441: 7/30 @ 1:30-2:30pm	Influence of Pore Morphology on Dehumidification Performance of Asymmetric Polyethersulfone Membranes	Ishan Gopu Nair† (Engineering) Mudit Pandey* (Engineering) Harishramani Venkatasubramanian* (Engineering) Md Sadat Aarik* (Engineering) Govind Sriram Lanka* (Engineering) Ron Cheng Xuan Chay* (Science)
Czerwonky, David Matthew	Poster #1467: 7/30 @ 1:30-2:30pm	PFOA and PFOS exposure induce endothelial cell barrier disruption	Eric Y Yang† (Engineering) Bingrui Luke Wang* (Engineering)
Czerwonky, David Matthew	Talk #7005: 7/30 @ 10:40am	Graph-Theoretic Observability and Redundancy Analysis for Large-Scale Water Treatment and Distribution Systems	Mihir Samanyu Talamudipi† (Engineering)
Czerwonky, David Matthew	Talk #7030: 7/30 @ 12:00pm	Semantic Processing and Early Language Learning (SPELL)	Changyeol Im† (Science)
Czerwonky, David Matthew	Talk #7033: 7/30 @ 12:00pm	Sustainable Manufacturing of Aerospace Composite Structures using High-performing Bio-based Epoxy Systems	Luis Mariano Avalos Campa† (Science)

Name	Presentation	Title	Students
Czerwony, David Matthew	Talk #7040: 7/30 @ 12:20pm	Buildup, Instrumentation, and Optical Diagnostics for the Purdue High-speed Automated Sand Erosion Rig (PHASER)	Justin Babilino [†] (Engineering JMHC)
Czerwony, David Matthew	Talk #7058: 7/30 @ 1:20pm	High-Resolution Thermal Warpage Measurement Using 3D Laser Vibrometry and Optical Profilometry	Ishaan Brar [†] (Engineering)
Dai, Ran	Poster #1258: 7/30 @ 12:00-1:00pm	Deployment of Autonomous and Passive Micro-Morphing Aerial Vehicles (MMAVs)	Kai X Keller [†] (Engineering) Jamie Chanadol Henson [†] (Engineering) Nhuan Boi Duong [‡] Haoyu Zhang [‡] (Engineering)
Dankwa, Derrick	Talk #7054: 7/30 @ 1:00pm	DNA Origami Nanocube Scaffold for Production of Multiple Therapeutic RNA Sequences	Logan M Murray [†] (Engineering)
Danzeisen, Emily Lynae	Poster #1026: 7/30 @ 10:30-11:30am	Using a yeast-2-hybrid assay to optimize the auxin inducible degron system	Savana Jankovic [†] (Agriculture)
Darji, Saloni	Poster #1067: 7/30 @ 10:30-11:30am	Development of an Efficient, Synthetic Pathway for Large Scale Atipamezole Manufacturing	Kira Howet [†] (Science)
Darji, Saloni	Poster #1094: 7/30 @ 10:30-11:30am	Extraction and Purification of Elastin-Like Polypeptides for Layer-by-Layer Nanoparticle-Mediated mRNA Delivery	Yixuan Ren [†] (Science) Hayden Schneider* (Science JMHC) Steven Quocviet Phan* (Pharmacy)
Das, Chittaranjan	Poster #1092: 7/30 @ 10:30-11:30am	Exploring the Structure and Function of Ceg14, a Legionella pneumophila Effector Protein, and its Binding Partners	Isabel M Owens [†] (Science)
Das, Chittaranjan	Talk #7037: 7/30 @ 12:20pm	"Structural Characterization of N-terminally ubiquitinated BAP1 in complex with Ub-VME"	Donovan Dewitt [†] (PWL)
Das, Soumyajit	Poster #1418: 7/30 @ 1:30-2:30pm	Development and Characterization of a 3D DIPG Spheroid Model to Study Tumor-Immune Interactions in the Brain	Rohan Joseph Eapent [†] (Pharmacy)
Davarnia, Danial	Talk #7019: 7/30 @ 11:20am	Designing a Game-Based Learning Platform for Teaching Mathematical Optimization	Huy Bao Huynh [†] (Engineering)
Davis, Anna Elizabeth	Poster #1086: 7/30 @ 10:30-11:30am	Synthesis of novel ligands to improve reactivity and selectivity of organometallic reactions through electric field catalysis	Sophia D Madrazo [†] (Science)
Davis, James C	Talk #9016: 7/27-7/31 virtually	Hardware-aware code optimization using LLM fine-tuning with pairwise multi-objective DPO driven by a Lagrangian relaxation	Stefan Teodor Maxim [†] (Science) Arjun Sandeep Gupte [‡] (Engineering) Ahmed Tarek Ibra Elmersawy [‡] (Engineering) Andre Lee [‡] (Engineering)
De, Bithi	Talk #9004: 7/27-7/31 virtually	Pelican as a Data Delivery Mechanism for HPC Workflows on Anvil	Branden Turner [†] (PWL)
De Dios, Robyn Krystal	Poster #1524: 7/30 @ 1:30-2:30pm	Task Design Effects on Student Knowledge Prioritization in CRISPR Gene-Therapy Tasks	Jennifer Hyerin Yang [†] (Pharmacy)
de Souza Barbosa, Pedro Henrique	Talk #7025: 7/30 @ 11:20am	Enhancing the Mechanical Reliability of Free-Standing Laser-Induced Graphene through Process and Material Design	Elena Paia Ferreira [†] (Engineering)

Name	Presentation	Title	Students
Decker, Brenna Lynn	Poster #1025: 7/30 @ 10:30-11:30am	Wasps of West Lafayette: Collection, Curation and Identification	Sam Nelson Hutjenst (Agriculture)
Deering, Amanda J	Poster #1034: 7/30 @ 10:30-11:30am	Effectiveness of Household Sanitizers for Reducing Salmonella enterica serovar Newport on Fresh Produce	Alexandra Susan Revivo† (Agriculture)
Deng, Qing	Talk #9011: 7/27-7/31 virtually	Low-Cost Microfluidic Devices for Live Zebrafish Imaging of Wound Healing and Immune Response	Vianca Jelu† (Science JMHC)
Deng, Yuelin	Poster #1289: 7/30 @ 12:00-1:00pm	SCOUT: An in-vivo Methane Sensing System for Real-time Monitoring of Enteric Emissions in Cattle	Zihan O Zeng† (Engineering JMHC)
Deppe, Nathan A	Poster #1011: 7/30 @ 10:30-11:30am	Using Hyperspectral Reflectance Models to Estimate Turgor Loss Point in Diverse Maize Germplasm	Michael Blados† (PWL)
Desai, Rushik	Poster #1295: 7/30 @ 12:00-1:00pm	Radiation Cascade Simulations in GST-C Using Molecular Dynamics	Aryan Rauniyar† (Engineering) Agustin Abt† (Engineering)
Desai, Rushik	Talk #7063: 7/30 @ 2:00pm	Mapping the Stacking and Surface Chemistry Landscape of MXenes and Metal Carbides via DFT and Molecular Dynamics	Samiya Balu† (Engineering) Sahana Mukund‡ (Science)
Desai, Sourabh Vitthal	Poster #1226: 7/30 @ 12:00-1:00pm	Radiation Cascade Studies in GST-C Using Molecular Dynamics	Agustin Abt† (Engineering) Aryan Rauniyar‡ (Engineering)
DeVries, Ethan Michael	Poster #1268: 7/30 @ 12:00-1:00pm	Developing Soft Growing Robot Delivery of Insect Scale Robots for Non-Destructive Inspection	Dominic Nathaniel Muniz† (Engineering) Ana Clara de Medeiros Morais‡ (Engineering)
DeVries, Ethan Michael	Talk #7077: 7/30 @ 3:40pm	Soft Growing Robot Cap's Sensor Integration	Ana Clara de Medeiros Morais† (Engineering) Dominic Nathaniel Muniz‡ (Engineering)
Dey, Anubhav	Poster #1456: 7/30 @ 1:30-2:30pm	Joint Registration and Pathology Detection in CT via Diffeomorphic Neural Optimal Transport	Ziqi Shen† (Engineering)
Dhanabalan, Kanaga Vijayan	Talk #7051: 7/30 @ 1:00pm	AI-Guided Engineering of Lipocalin Scaffolds for Programmable Small-Molecule Recognition	Atharva Bhatta† (Science)
Dharanipragada, Archana	Talk #7042: 7/30 @ 12:00pm	A Non-Invasive Acoustic Sensing System for Sleep Bruxism Screening	Aaruni Singh† (Engineering)
Dick, Jeffrey Edward	Poster #1490: 7/30 @ 1:30-2:30pm	Monitoring Small-Scale Gas Activity Using Electrochemiluminescence Microscopy	Daniel Michael Carrel† (Science)
Dick, Jeffrey Edward	Poster #1491: 7/30 @ 1:30-2:30pm	Addition of pentanol enhance aqueous zinc metal battery lifetime and performance	Kaleb Caudle† (Science)
Dick, Jeffrey Edward	Poster #1514: 7/30 @ 1:30-2:30pm	Low pH Exposure Alters Mediator Response in Poly(o-phenylenediamine)-Based Molecularly Imprinted Polymer Sensors	Amanda Rodriguez-Gonzalez† (Engineering) Keeley Vonne Farmer* (Science) Ali Jo Crouse* (Science)
Dickinson, Danielle	Poster #1245: 7/30 @ 12:00-1:00pm	Scaling Real-Time Inference and Automated Anomaly Detection for 250+ Type II Supernovae	Medhansh Garg† (Science)
Diamond, Reilly	Poster #1314: 7/30 @ 12:00-1:00pm	A systematic review of EEG research on error processing in schizophrenia	Seona James Mathew† (PWL) Lorelei Estella ro Fletcher† (JMHC) Morgan Denae Furlow† (Science)
Dillard, Tyler	Poster #1501: 7/30 @ 1:30-2:30pm	Automated Image Correlation Analysis of Particle Impact for Solid Particle Erosion	Sai Kasturi Kamila† (Engineering JMHC) Melody Christine Yang† (Engineering) Daniel J V Pike* (Engineering)

Students' Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Doran, Meera Pancholi	Poster #1401: 7/30 @ 1:30-2:30pm	Ultrasound Assessment of BAPN-Induced Thoracic Aortic Aneurysm Progression in Juvenile Mice	Kayla A Fischer† (Centers & Institutes) Eesha Khalid Faruqi† (HHS) Julian Vuong‡ (Engineering)
Doszpoly, Agnes	Poster #1061: 7/30 @ 10:30-11:30am	Tiam1 as a candidate mediator for Calcium-dependent actin remodeling events in the egg-to-embryo transition	Auriani Faviola Gomez Cintron† (Engineering)
Douglas, Kerrie	Poster #1472: 7/30 @ 1:30-2:30pm	Educational Gap Analysis of SCALE HIAP Course Content Using Educational Mapping	Nathan Grant Clark† (Engineering) Junyi Xiu* (Vanderbilt University) Olyver Fierro* (Engineering) Eileen Koh* (Engineering)
Douglas, Kerrie	Poster #1474: 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis of SCALE Educational Resources for System-on-Chip Workforce Development	Olyver Fierro† (Engineering) Eileen Koh‡ (Engineering) Junyi Xiu* (Vanderbilt University) Nathan Grant Clark* (Engineering)
Douglas, Kerrie	Poster #1478: 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis for SCALE Radiation-Hardening Technical Vertical	Junyi Xiu† (Vanderbilt University) Olyver Fierro* (Engineering) Nathan Grant Clark* (Engineering) Eileen Koh* (Engineering)
Douglas, Kerrie	Talk #9006: 7/27-7/31 virtually	Systematic Gap Analysis for SoC Curriculum Development	Eileen Koh† (Engineering) Olyver Fierro‡ (Engineering) Junyi Xiu* (Vanderbilt University) Nathan Grant Clark* (Engineering)
Dravid, Rajasi Somesh	Poster #1210: 7/30 @ 12:00-1:00pm	Identification of Regulators of RBX1 Turnover in the Absence of Glomulin	Kyannet Rodriguez-Cruz† (Agriculture)
Du, Jinyang	Poster #1254: 7/30 @ 12:00-1:00pm	Effect of Delivery Methods of Hyaluronidase on Enzymatic Degradation of Hyaluronic Acid	Mia Alexandra Jensen† (Engineering)
Duan, Tianle	Poster #1007: 7/30 @ 10:30-11:30am	A Data-Sparse Workflow for Urban-Scale Building Energy Modeling Using Large Language Models	MIZUKI KUNO† (Polytechnic) AMBER JOSFIN RAMOS PINEDA† (Polytechnic)
Dudareva, Natalia	Poster #1020: 7/30 @ 10:30-11:30am	Regulation of terpene biosynthesis in Nicotiana tabacum by an isopentenyl diphosphate transporter	Leah Wong† (PWL)
Duerstock, Bradley S	Poster #1325: 7/30 @ 12:00-1:00pm	Assessment of Grasping Pipelines for Assistive Robotic Manipulation	Jacob Junjie Zhang†
Duerstock, Bradley S	Poster #1513: 7/30 @ 1:30-2:30pm	Experiential Learning: Developing Custom Assistive Technology Through Participatory Design and 3D-Printing	Muneera Shoaib Rasheed† (Engineering) Korphiena Kimona Stephen‡ (Engineering)
Duerstock, Bradley S	Poster #1519: 7/30 @ 1:30-2:30pm	ADAPT-E: Adaptive Donning and Attachment Platform Technology for Eating Utensils	Korphiena Kimona Stephen† (Engineering) Muneera Shoaib Rasheed‡ (Engineering)
Duncan, Natasha	Talk #7071: 7/30 @ 2:40pm	Beyond the Game: Exploring Sport, Culture, and Community Through Experiential Learning in Türkiye	Aarushi Gupta† (Science)
Dunlop, Steven R	Poster #1116: 7/30 @ 10:30-11:30am	MAPPING PHYSICAL VULNERABILITIES IN GLOBAL SEMICONDUCTORS VALUE CHAINS	Angie Ginnella Batista† (DSB) Juan Pablo Rodriguez Lopez† (DSB)
Dunlop, Steven R	Talk #7046: 7/30 @ 1:20pm	Risk Exposure of U.S. Industry Sectors to Oil Price Shocks	Santiago Melo Munoz† (Engineering)
Durst, Leah N	Poster #1210: 7/30 @ 12:00-1:00pm	Identification of Regulators of RBX1 Turnover in the Absence of Glomulin	Kyannet Rodriguez-Cruz† (Agriculture)

Name	Presentation	Title	Students
Earl, Conner Clair	Poster #1229: 7/30 @ 12:00-1:00pm	2D and 4D Ultrasound Assessment of Ejection Fraction in an Empagliflozin-Treated Murine Model of Duchenne Muscular Dystrophy	Olivia Bell [†] (Engineering) Alekh Pratish Shah [‡] (Engineering) Xavier Thomas Cedric Tribout [‡] (PWL)
Eason, Sarah	Poster #1122: 7/30 @ 10:30-11:30am	Born This Way? Birth Order Differences in Parents' Evaluations of Preschoolers' Math Abilities and the Importance of Math	Anne C. Lim [†] (HHS) Sanah Kochhar [†] (HHS)
Ebewele, Ehijie	Talk #7003: 7/30 @ 10:00am	BioreactorMR: An AI-Augmented Mixed-Reality Tool for Collaborative Bioreactor Education	Azeem Ehtisham [†] (Polytechnic)
Ehsanuzzaman, Md	Poster #1462: 7/30 @ 1:30-2:30pm	Multimode Entanglement in Attosecond Controlled Squeezed Light	Sreeram Vengalloor Madhavan [†] (Science)
Ejendal, Karin F K	Poster #1276: 7/30 @ 12:00-1:00pm	Investigating Particle Diffusometry during Conjugation of Biotinylated Products to Streptavidin-Coated Particles	Shreeya Roy [†] (Engineering)
Ekici, Defne	Poster #1421: 7/30 @ 1:30-2:30pm	Association Between Hemodynamics and Vessel Wall Enhancement in Intracranial Aneurysms	Diego Alejandro Hernandez Acosta [†] (Engineering)
Ellegate, James Richard	Poster #1211: 7/30 @ 12:00-1:00pm	Geometric Characterization of Helix Orientation Across Protein Kinase Conformational States	Nycholas Contreras [†] (PWL)
Elliott, Daniel S	Poster #1504: 7/30 @ 1:30-2:30pm	Determining the reduced matrix elements of electron-dipole transitions in atomic cesium	Belinda Xintian Li [†] (University of Illinois)
Enebechi, Nuela	Poster #1053: 7/30 @ 10:30-11:30am	FractureTAU: A Spatiotemporal-Attention Deep-Learning Surrogate for Long-Horizon Fracture Forecasting in Microstructures	Juan I Cantarella [†] (Engineering)
Enebechi, Nuela	Poster #1060: 7/30 @ 10:30-11:30am	A Real-Time Digital Twin Framework for Temperature Monitoring and Feedback Control in Automated Fiber Placement	Hongsen Fang [†] (Engineering) Rohan Kelkar [*] (Engineering)
Enebechi, Nuela	Poster #1081: 7/30 @ 10:30-11:30am	ML-Based Unsupervised Segmentation of Synchrotron XRF Data to Identify Metal Patterns in AD and Healthy Brain Tissue	Zonghan Lei [†] (Science JMHC)
Enebechi, Nuela	Poster #1092: 7/30 @ 10:30-11:30am	Exploring the Structure and Function of Ceg14, a Legionella pneumophila Effector Protein, and its Binding Partners	Isabel M Owens [†] (Science)
Enebechi, Nuela	Poster #1228: 7/30 @ 12:00-1:00pm	Selective Molecular Editing via Earth-Abundant Transition Metal Catalysis	Aritra Barman [†] (Science)
Enebechi, Nuela	Poster #1230: 7/30 @ 12:00-1:00pm	Developing a Cave Virtual Reality Application for Geoscience Education using Collaborative Design to Establish Learning Goals	Anushka Bhav [†] (Polytechnic) Hiya Samanta [‡] (Science)
Enebechi, Nuela	Poster #1257: 7/30 @ 12:00-1:00pm	Laser-Profilometry-Driven Digital Twin System for Defect Detection during Automated Fiber Placement	Rohan Kelkar [†] (Engineering) Hongsen Fang [‡] (Engineering)
Enebechi, Nuela	Poster #1268: 7/30 @ 12:00-1:00pm	Developing Soft Growing Robot Delivery of Insect Scale Robots for Non-Destructive Inspection	Dominic Nathaniel Muniz [†] (Engineering) Ana Clara de Medeiros Morais [‡] (Engineering)

Name	Presentation	Title	Students
Enebechi, Nuela	Poster #1276: 7/30 @ 12:00-1:00pm	Investigating Particle Diffusometry during Conjugation of Biotinylated Products to Streptavidin-Coated Particles	Shreeya Roy† (Engineering)
Enebechi, Nuela	Poster #1277: 7/30 @ 12:00-1:00pm	Evaluating LiDAR Parameters for Immersive and Educational VR Cave Environments	Hiya Samanta† (Science) Anushka Bhavetz (Polytechnic)
Enebechi, Nuela	Poster #1281: 7/30 @ 12:00-1:00pm	Contribution of roots vs shoots to adaptive cold acclimation in Arabidopsis thaliana	Colleen Ryan Squier† (Agriculture) Stephanie Tirado Rojas* (Agriculture)
Enebechi, Nuela	Poster #1407: 7/30 @ 1:30-2:30pm	Optically Reconfigurable Physically Unclonable Functions	Ruhaan Batta† (Engineering Polytechnic)
Enebechi, Nuela	Poster #1430: 7/30 @ 1:30-2:30pm	The Lateral Olivocochlear System and its Plasticity Following Noise Exposure	Hrishikesh Murli Krishna† (HHS Science)
Enebechi, Nuela	Poster #1431: 7/30 @ 1:30-2:30pm	The Development, Assembly, and Training of a Low-cost Bipedal Robot	Yuet Ching Jolie Lai† (Engineering Science) Gilbert Chang‡ (Engineering Science) Zihan Lin‡ (Science) Andrew Li Niu‡ (Science)
Enebechi, Nuela	Poster #1440: 7/30 @ 1:30-2:30pm	Improving the accuracy and efficiency in Large Language Model component creation for web development and content creation	Saran S Nagubandi† (Science) Aiden Moy‡ (Science)
Enebechi, Nuela	Poster #1453: 7/30 @ 1:30-2:30pm	Bistable Auxetic Patterns and their use in non-cooperative space object detumbling	William James Rowe† (Engineering)
Enebechi, Nuela	Poster #1463: 7/30 @ 1:30-2:30pm	Binding Frequency Mapping: A Broadly Applicable Structure for Comprehending Antibody Reactions in Various Viral Pathogens	Clayton Walden† (Science)
Enebechi, Nuela	Talk #7001: 7/30 @ 10:20am	Atomization of Fuel in the Pre-vaporization Tube of a Small-Scale Annular Gas Turbine Combustor	Levi Hammerbeck† (Engineering)
Enebechi, Nuela	Talk #7017: 7/30 @ 11:40am	Building Morphosyntactic Networks for Precision Assessment and Intervention in Preschool-aged Children	Ronald Liu Tsai† (Liberal Arts Science)
Enebechi, Nuela	Talk #7026: 7/30 @ 11:40am	Design and Noise Characterization of a Low-Noise Voltage Preamplifier for Nanovolt-Scale Measurements	Shashank Varamballi† (Engineering Science)
Enebechi, Nuela	Talk #7045: 7/30 @ 1:00pm	Enhancing Tennis Racket Feel Through Multi-Material Additive Manufacturing of Handle Pallets	Drake R Augustine† (Engineering) Kyle Landon Friedrich‡ (Engineering) Megan Rose Magee‡ (Engineering)
Enebechi, Nuela	Talk #7077: 7/30 @ 3:40pm	Soft Growing Robot Cap's Sensor Integration	Ana Clara de Medeiros Morais† (Engineering) Dominic Nathaniel Muniz‡ (Engineering)
Enebechi, Nuela	Talk #7080: 7/30 @ 3:40pm	Beyond Task Completion: Training Computer-Use Agents to Evaluate Usability	Rishab Sai Vempati† (Science)
Erk, Kendra A	Poster #1095: 7/30 @ 10:30-11:30am	Characterization of Strain Acquisition in Thermoreversible Acrylic Gels Using Rheo-Particle Image Velocimetry	Zachary Ryan Roeder† (Engineering)
Erk, Kendra A	Poster #1244: 7/30 @ 12:00-1:00pm	Coated in slime: the physical properties of skin mucus across fish species	Gabriela Garcia Cardenas† (Science)

Name	Presentation	Title	Students
Esmaeili, Behzad	Poster #1310: 7/30 @ 12:00-1:00pm	Cognitive Effects of Exoskeleton Use on Hazard Identification Performance in Construction Workers	Ahmed Khan† (Engineering)
Evans, John Maxwell	Poster #1507: 7/30 @ 1:30-2:30pm	Customs and courtesies: Preliminary qualitative analysis of an equine-assisted learning program for military veterans	Kelly Marie Makovic† (Vet Med)
Faisal, Md Arif	Poster #1491: 7/30 @ 1:30-2:30pm	Addition of pentanol enhance aqueous zinc metal battery lifetime and performance	Kaleb Caudle† (Science)
Farmer, Justin	Poster #1292: 7/30 @ 12:00-1:00pm	Association of Cumulative Lead Exposure and APOE ε4 Status with Cognitive Decline in Older Adults	Elisa Chen† (Science JMHC) Grace Ann Kowis‡ (HHS Liberal Arts)
Farmer, Samarpan	Poster #1409: 7/30 @ 1:30-2:30pm	Experimental Characterization of Vent-Gas Ignition During Lithium-Ion Battery Thermal Runaway	Nicolas Bustamante† (Engineering)
Fawley, Jacob Ryan	Poster #1021: 7/30 @ 10:30-11:30am	Functional analysis of putative chromatin assembly factors in Arabidopsis	Duncan Patrick Blank† (Agriculture)
Felton, Ashlyn Marie	Talk #7022: 7/30 @ 11:20am	Evaluating the Cardiotoxicity of Doxorubicin Using 4D Echocardiology	Helen Yee†
Feng, Yaohua	Poster #1041: 7/30 @ 10:30-11:30am	Evaluating Consumer Acceptance of Aquaponically Grown Lettuce Following Exposure to an Informative Label	Kiara C. Méndez Serrano† (PWL)
Ferdausi, Nourin	Talk #7053: 7/30 @ 1:40pm	Thermosensitive Histidine Dehydrogenase (HisD) Mutants in Salmonella typhimurium	Olivia Nicole Safranek† (Science) Ruoqin Rachel Yang* (Science)
Ferlazzo, Jack Rearden	Poster #1268: 7/30 @ 12:00-1:00pm	Developing Soft Growing Robot Delivery of Insect Scale Robots for Non-Destructive Inspection	Dominic Nathaniel Muniz† (Engineering) Ana Clara de Medeiros Morais‡ (Engineering)
Ferlazzo, Jack Rearden	Talk #7077: 7/30 @ 3:40pm	Soft Growing Robot Cap's Sensor Integration	Ana Clara de Medeiros Morais† (Engineering) Dominic Nathaniel Muniz‡ (Engineering)
Fernandez-Juricic, Esteban	Poster #1322: 7/30 @ 12:00-1:00pm	Lighting conditions shape visual perception of objects across pasture, aviary, and enriched colony housing systems	Julian Leonard Smith† (Agriculture)
Ferreira, Christina R	Poster #1117: 7/30 @ 10:30-11:30am	COMMERCIALIZING LIPIDOMICS FOR BEEF QUALITY ASSESSMENT Understanding market needs, stakeholder and adoption pathways	Ana Maria Cifuentes Pinilla† (PWL)
Ferreira, Christina R	Poster #1118: 7/30 @ 10:30-11:30am	Exploratory Analysis of Plasma Lipid Profiles in Largemouth Bass Across a PFAS Exposure Gradient	Maria Jose Suarez Monroy† (PWL)
Ferreira, Christina R	Talk #7067: 7/30 @ 2:20pm	An automated workflow for Multi-Omics Analysis using Solvent Touch Extraction.	Jesus Esteban Ladino Giraldo† (PWL)
Fewell, Andrew Owen	Poster #1291: 7/30 @ 12:00-1:00pm	Improved Radiation Testing Methodology and Characterization of COTS Memory Devices with varying Memory and Package Size	Louis Vincent Buonaiuto† (Engineering)
Fewell, Andrew Owen	Talk #7084: 7/30 @ 3:20pm	Temperature Annealing Properties of a Commercial Optical Transceiver in the Subcritical Pile and Nuclear Reactor	Brandon Anthony Farber† (Engineering)

Name	Presentation	Title	Students
Figueiredo, Marxa	Poster #1482: 7/30 @ 1:30-2:30pm	Regulation of bone remodeling through co-delivery of STING antagonist and phenamil nanocarriers.	Abigail Catherine Alexandert† (Vet Med)
Figueiredo, Marxa	Poster #1484: 7/30 @ 1:30-2:30pm	Targeting Pro-Inflammatory Macrophages via Sialylated Nanocarriers for Treatment of Rheumatoid Arthritis	Gabrielle Marie Barrido† (PWL)
Flaherty, Daniel P	Poster #1204: 7/30 @ 12:00-1:00pm	Evaluation of the Putative ADAR1 Inhibitors, ADAR1i-124 and NAG638	Savannah Doty† (Grand Canyon University) Estelle Nour Gardner‡ (Agriculture)
Flanagan, Joseph	Poster #1077: 7/30 @ 10:30-11:30am	Creating Connected Pathways in Iron: Engineering Interconnected Porous Networks Through Magnesiothermic Reduction	Emily Danielle Kushner† (Engineering) Helen Sophia Brzozowski* (Engineering)
Flanagan, Joseph	Poster #1408: 7/30 @ 1:30-2:30pm	Nickel Powder and Foil with Reaction-Synthesized Porous Surfaces	Helen Sophia Brzozowski† (Engineering) Emily Danielle Kushner* (Engineering)
Fleming, Gabriella Coloyan	Poster #1472: 7/30 @ 1:30-2:30pm	Educational Gap Analysis of SCALE HIAP Course Content Using Educational Mapping	Nathan Grant Clark† (Engineering) Junyi Xiu* (Vanderbilt University) Olyver Fierro* (Engineering) Eileen Koh* (Engineering)
Fleming, Gabriella Coloyan	Poster #1474: 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis of SCALE Educational Resources for System-on-Chip Workforce Development	Olyver Fierro† (Engineering) Eileen Koh‡ (Engineering) Junyi Xiu* (Vanderbilt University) Nathan Grant Clark* (Engineering)
Fleming, Gabriella Coloyan	Poster #1478: 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis for SCALE Radiation-Hardening Technical Vertical	Junyi Xiu† (Vanderbilt University) Olyver Fierro* (Engineering) Nathan Grant Clark* (Engineering) Eileen Koh* (Engineering)
Fleming, Gabriella Coloyan	Talk #9006: 7/27-7/31 virtually	Systematic Gap Analysis for SoC Curriculum Development	Eileen Koh† (Engineering) Olyver Fierro‡ (Engineering) Junyi Xiu* (Vanderbilt University) Nathan Grant Clark* (Engineering)
Folkerts, Jill Anne	Poster #1472: 7/30 @ 1:30-2:30pm	Educational Gap Analysis of SCALE HIAP Course Content Using Educational Mapping	Nathan Grant Clark† (Engineering) Junyi Xiu* (Vanderbilt University) Olyver Fierro* (Engineering) Eileen Koh* (Engineering)
Folkerts, Jill Anne	Poster #1474: 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis of SCALE Educational Resources for System-on-Chip Workforce Development	Olyver Fierro† (Engineering) Eileen Koh‡ (Engineering) Junyi Xiu* (Vanderbilt University) Nathan Grant Clark* (Engineering)
Folkerts, Jill Anne	Poster #1478: 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis for SCALE Radiation-Hardening Technical Vertical	Junyi Xiu† (Vanderbilt University) Olyver Fierro* (Engineering) Nathan Grant Clark* (Engineering) Eileen Koh* (Engineering)
Folkerts, Jill Anne	Talk #9006: 7/27-7/31 virtually	Systematic Gap Analysis for SoC Curriculum Development	Eileen Koh† (Engineering) Olyver Fierro‡ (Engineering) Junyi Xiu* (Vanderbilt University) Nathan Grant Clark* (Engineering)
Foti, Daniel J	Poster #1314: 7/30 @ 12:00-1:00pm	A systematic review of EEG research on error processing in schizophrenia	Seona James Mathew† (PWL) Lorelei Estella ro Fletcher† (JMHC) Morgan Denae Furlow† (Science)
Foti, Daniel J	Talk #7049: 7/30 @ 1:20pm	Socioeconomic Status as a Moderator of ACT Outcomes in Caregivers of Children with Neurogenetic Conditions	Chenrui Yin† (HHS Science)
Freeman, Jennifer	Talk #7059: 7/30 @ 1:40pm	Developmental Neurotoxicity of Trifluoroacetic Acid (TFA): Oxidative Stress and Neurotransmitter Responses in Zebrafish	Maxwell J Gootee† (HHS Liberal Arts JMHC) Agampreet Kaur‡ (HHS JMHC)

Students' Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Frias Gomez, Manuela	Poster #1488: 7/30 @ 1:30-2:30pm	Investigating the biocatalytic activity of SavA/B homologs in <i>S. pristinaespiralis</i> via heterologous expression in <i>E. coli</i>	Phoebe Burrell† (Liberal Arts Science)
Fritsch, Tyler Parker	Poster #1418: 7/30 @ 1:30-2:30pm	Development and Characterization of a 3D DIPG Spheroid Model to Study Tumor-Immune Interactions in the Brain	Rohan Joseph Eapen† (Pharmacy)
Furze, Morgan Emily	Poster #1029: 7/30 @ 10:30-11:30am	Nonstructural Carbohydrates as Signatures of Local Adaptation in a Bur Oak Common Garden	Kae Nielson† (PWL) Bison R Lowe‡ (Agriculture) Daniel Angel Torres‡ (Agriculture) George Alexander Hufendick‡ (PWL) Grace Louise Amburgey‡ (Science JMHC) Lydia Jane Sullivan‡ (Agriculture) Norah Kaye Snyder‡ (Agriculture) Veronica Grace Nguyen‡ (PWL)
Gallagher, Caitlin	Poster #1304: 7/30 @ 12:00-1:00pm	Collective Memory in Bacterial Communities: Could It Help Reverse Antibiotic Resistance?	Israel Adenuga† (Homewood-Flossmoor High School) Alessandra Orr† (Homewood-Flossmoor High School) Jolissa Abeht† (Homewood-Flossmoor High School)
Ganapathy Malettira, Prajna	Poster #1123: 7/30 @ 10:30-11:30am	Conversational FPGA Design Space Exploration: A ReAct-Based LLM Agent Coupled with a Transformer-Based Surrogate Model	Carlos Alexis Ortiz Gonzalez† (Engineering)
Gao, Jing	Poster #1261: 7/30 @ 12:00-1:00pm	From outputs to confidence: Quantifying trust in science agents	Caleb Eunho Lee† (Science)
Gappmayr, Paris	Talk #7030: 7/30 @ 12:00pm	Semantic Processing and Early Language Learning (SPELL)	Changyeol Im† (Science)
Garcia, Diego Esteban	Poster #1504: 7/30 @ 1:30-2:30pm	Determining the reduced matrix elements of electron-dipole transitions in atomic cesium	Belinda Xintian Li† (University of Illinois)
Garcia Bravo, Jose M	Poster #1201: 7/30 @ 12:00-1:00pm	Portable Reverse Osmosis with Pulsed and Reversed Flow	Gia Phong Phuong† (Centers & Institutes)
Garcia Giraldo, Laura Elisa	Poster #1318: 7/30 @ 12:00-1:00pm	Examining the effects of foliar-applied <i>Bacillus subtilis</i> on tomato phyllosphere microbiome and disease outcome	Madeline Marie Peterson† (Agriculture)
Gardner, Stephanie M	Poster #1524: 7/30 @ 1:30-2:30pm	Task Design Effects on Student Knowledge Prioritization in CRISPR Gene-Therapy Tasks	Jennifer Hyerin Yang† (Pharmacy)
Garner, Allen L	Poster #1294: 7/30 @ 12:00-1:00pm	Analysis of Laser Wakefield Acceleration and the Beam-Loading Effect in Higher Dimensions	Keegan M Kita† (Science)
Garner, Allen L	Poster #1296: 7/30 @ 12:00-1:00pm	Developing a Gate Boosted Pulse Generator to Drive Gas Discharge Tube Based Nonlinear Transmission Line System	Luke Alexander Trahin† (Engineering) Samuel Christian Olenick* (Engineering)
Gelvin, Stanton B	Poster #1018: 7/30 @ 10:30-11:30am	Myosin XI-K Knockdown Effects on Agrobacterium T-DNA Integration into the Arabidopsis Genome	Kayla Saopraseuth† (PWL)
Goel, Sanket	Talk #9008: 7/27-7/31 virtually	Hyperspectral Imaging and Machine Learning Pipeline for Non-Destructive Defect and Strain Mapping in 2D Semiconductors	Shashwat Goel† (PWL) Srivalli Akella†

Name	Presentation	Title	Students
Goergen, Craig	Poster #1229: 7/30 @ 12:00-1:00pm	2D and 4D Ultrasound Assessment of Ejection Fraction in an Empagliflozin-Treated Murine Model of Duchenne Muscular Dystrophy	Olivia Bell [†] (Engineering) Alekh Pratish Shah [‡] (Engineering) Xavier Thomas Cedric Tribout [‡] (PWL)
Goergen, Craig	Poster #1255: 7/30 @ 12:00-1:00pm	Exploration of Finetuning Methods for Deep Learning-Based Aortic Root Segmentation on Echocardiography	Julia Kang [†] (Engineering Science) Julian Vuong [‡] (Engineering) Ojas Chaturvedi [‡] (Science JMHC)
Goergen, Craig	Poster #1401: 7/30 @ 1:30-2:30pm	Ultrasound Assessment of BAPN-Induced Thoracic Aortic Aneurysm Progression in Juvenile Mice	Kayla A Fischer [†] (Centers & Institutes) Eesha Khalid Faruqi [†] (HHS) Julian Vuong [‡] (Engineering)
Goergen, Craig	Talk #7010: 7/30 @ 10:20am	Beyond Diameter: Biomechanical Phenotyping of Pediatric Aortic Root Dilation Across Etiologies	Julian Vuong [†] (Engineering) Julia Kang [‡] (Engineering Science)
Goergen, Craig	Talk #7022: 7/30 @ 11:20am	Evaluating the Cardiotoxicity of Doxorubicin Using 4D Echocardiography	Helen Yee [†]
Goergen, Craig	Talk #7044: 7/30 @ 12:40pm	Comparison of scanning electron microscopy and histological observations of human aorta tissue	Bea Olivia Cabot [†] (HHS Science)
Golden, Matthew Davis	Poster #1282: 7/30 @ 12:00-1:00pm	Modeling Vanadium Dioxide for Neuromorphic Computing	Vincent Stavig [†] (Science)
Golestanian, Mahmoud	Poster #1243: 7/30 @ 12:00-1:00pm	Self-Improving Agent Skills for Reproducible Scientific Simulation Workflows	Juan Garcia [†] (Engineering)
Golestanian, Mahmoud	Poster #1261: 7/30 @ 12:00-1:00pm	From outputs to confidence: Quantifying trust in science agents	Caleb Eunho Lee [†] (Science)
Gomez Diaz, Hector	Poster #1243: 7/30 @ 12:00-1:00pm	Self-Improving Agent Skills for Reproducible Scientific Simulation Workflows	Juan Garcia [†] (Engineering)
Gomez Diaz, Hector	Poster #1261: 7/30 @ 12:00-1:00pm	From outputs to confidence: Quantifying trust in science agents	Caleb Eunho Lee [†] (Science)
Goñi, Joaquin	Poster #1251: 7/30 @ 12:00-1:00pm	Beyond Rest and Task: Information-Theoretic Measures of Brain Reconfiguration as Biomarkers of Familial Risk for Alcohol Use	Ana Maria Hernandez Conde [†] (Engineering)
Gonzalez Canas, Carolina	Poster #1292: 7/30 @ 12:00-1:00pm	Association of Cumulative Lead Exposure and APOE ε4 Status with Cognitive Decline in Older Adults	Elisa Chen [†] (Science JMHC) Grace Ann Kowis [‡] (HHS Liberal Arts)
Goppert, James Michael	Poster #1427: 7/30 @ 1:30-2:30pm	Extending Rumoca with eFMI GALEC for Embedded Controller Generation	Pradyunn Vikram Kale [†] (Engineering)
Goudarzian, Farshid	Poster #1421: 7/30 @ 1:30-2:30pm	Association Between Hemodynamics and Vessel Wall Enhancement in Intracranial Aneurysms	Diego Alejandro Hernandez Acosta [†] (Engineering)
Gounder, Rajamani P	Poster #1106: 7/30 @ 10:30-11:30am	Evaluating the Effect of Framework Aluminum Distributions on the Hydrothermal Stability of Phosphorus-Modified MFI Zeolites	Emerson Waltz [†] (Engineering)
Gounder, Rajamani P	Poster #1238: 7/30 @ 12:00-1:00pm	Investigating the Role of Lithium During FAU-to-CHA Inter-Zeolite Conversion	Sylvia Isabella Diaz [†] (Engineering) Sarah E Mollan [‡] (Engineering)
Gounder, Rajamani P	Poster #1411: 7/30 @ 1:30-2:30pm	Investigating the Role of Neutral Hydroxyl Groups and Sodium on Aluminum Siting in MFI Synthesis	Anna S Chambers [†] (Engineering)
Gounder, Rajamani P	Poster #1460: 7/30 @ 1:30-2:30pm	Methods to control zeolite framework atom removal and insertion in varying environments within the MFI topology	Kaylani Le'mae Tomlin [†] (Engineering)

Students' Role Notations: [†]Presenting Author, [‡]Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Gounder, Rajamani P	Talk #7056: 7/30 @ 1:40pm	Investigating Zinc Incorporation During Zn-MFI Synthesis for Fuel and Chemical Production	Alana N White [†] (Engineering)
Govind Kumar, Vivek	Poster #1211: 7/30 @ 12:00-1:00pm	Geometric Characterization of Helix Orientation Across Protein Kinase Conformational States	Nycholas Contreras [†] (PWL)
Gowher, Humaira	Poster #1208: 7/30 @ 12:00-1:00pm	Investigating the Role of Dnmt3bas in Protecting the Dnmt3b Promoter from DNA Methylation	Marlayna Little [†] (Agriculture)
Graham, Lyndsey Nicole	Talk #7049: 7/30 @ 1:20pm	Socioeconomic Status as a Moderator of ACT Outcomes in Caregivers of Children with Neurogenetic Conditions	Chenrui Yin [†] (HHS Science)
Green, Leopold Noel	Poster #1096: 7/30 @ 10:30-11:30am	Characterization of Dual dsDNA tetrahedra assembly conditions	Nasser H Sanwari [†] (Engineering Science) Rebecca Rose Phelan* (Engineering)
Green, Leopold Noel	Poster #1241: 7/30 @ 12:00-1:00pm	Functionalized DNA Tetrahedra for siRNA Delivery Across the Blood–Brain Barrier	Emma Foster [†] (Engineering Science)
Green, Leopold Noel	Talk #7054: 7/30 @ 1:00pm	DNA Origami Nanocube Scaffold for Production of Multiple Therapeutic RNA Sequences	Logan M Murray [†] (Engineering)
Green, Leopold Noel	Talk #9012: 7/27-7/31 virtually	Vancomycin Functionalized DNA Hydrogel on Titanium Surfaces Against Implant Infections	Ikechi M Johnson [†] (Engineering) Lara Teresa Muniz [‡] (Engineering)
Gribskov, Michael R	Poster #1250: 7/30 @ 12:00-1:00pm	RNA expression reveals heat shock resistance genes in distinct potato cultivars	Valeria Raquel Hernandez Barboza [†] (Science)
Grindley, Lucas David	Poster #1025: 7/30 @ 10:30-11:30am	Wasps of West Lafayette: Collection, Curation and Identification	Sam Nelson Hutjen [†] (Agriculture)
Guan, Shanyue	Poster #1005: 7/30 @ 10:30-11:30am	Development of a Machine Learning Model to Assess Indoor Air Quality Based on Measured Particulate Matter Levels	Julia Gloss [†] (Rochester Institute of Technology)
Guerrero, Daniel	Poster #1251: 7/30 @ 12:00-1:00pm	Beyond Rest and Task: Information-Theoretic Measures of Brain Reconfiguration as Biomarkers of Familial Risk for Alcohol Use	Ana Maria Hernandez Conde [†] (Engineering)
Guildenbecher, Daniel Robert	Poster #1287: 7/30 @ 12:00-1:00pm	Characterizing Optical Radiation in Solid Fuel Ramjets	Katie Wilkinson [†]
Guildenbecher, Daniel Robert	Talk #7001: 7/30 @ 10:20am	Atomization of Fuel in the Pre-vaporization Tube of a Small-Scale Annular Gas Turbine Combustor	Levi Hammerbeck [†] (Engineering)
Guildenbecher, Daniel Robert	Talk #7024: 7/30 @ 11:00am	Digital Inline Holographic Particle Tracking Velocimetry for High-Image-Density Particle Erosion Characterization	Yi Yang Hsu [†] (Engineering)
Guildenbecher, Daniel Robert	Talk #7040: 7/30 @ 12:20pm	Buildup, Instrumentation, and Optical Diagnostics for the Purdue High-speed Automated Sand Erosion Rig (PHASER)	Justin Babilino [†] (Engineering JMHC)
Gull, Mah	Poster #1266: 7/30 @ 12:00-1:00pm	High-Throughput Electrochemical Synthesis of Amides on Ni(OH) ₂	Katherine Madert [†] (University of Texas at Austin)
Gull, Mah	Poster #1280: 7/30 @ 12:00-1:00pm	From Sulfur to Selenium: Hydrogen Evolution in Metal Intercalated Nanosheets Catalysts	Yuwen Song [†] (Engineering)
Gunaratne, Dhanapala Mudiyansele Jayamini C	Poster #1092: 7/30 @ 10:30-11:30am	Exploring the Structure and Function of Ceg14, a Legionella pneumophila Effector Protein, and its Binding Partners	Isabel M Owens [†] (Science)

Name	Presentation	Title	Students
Guo, Guinan	Poster #1100: 7/30 @ 10:30-11:30am	Using UAV-Based Hyperspectral and LiDAR to Estimate Leaf Area Index in Maize	Daniela Solarte Rodriguez† (Engineering)
Guo, Guinan	Poster #1109: 7/30 @ 10:30-11:30am	An Integrated Processing and Interference Quality-Check Tool for Drone-Collected Synthetic Aperture Radar Data	Ryan Wu† (Engineering)
Guo, Haohan	Poster #1293: 7/30 @ 12:00-1:00pm	Coupled Phase-Field and Finite Element Modeling of Copper Pad Deformation in Hybrid Bonding Anneal	William Eunseok Jo†
Guo, Qi	Talk #7032: 7/30 @ 12:40pm	Compact Single-Shot Ranging, Locating and Multi-Scale Imaging Using Metasurfaces	Roy Liu† (Engineering)
Guo, Runze	Poster #1045: 7/30 @ 10:30-11:30am	Modulating MicroRNA Expression to Elucidate Their Roles in Soybean Nodulation Using a Hairy Root System	Makenna Wevick† (Unknown)
Gupta, Vijay	Poster #1001: 7/30 @ 10:30-11:30am	Conformal Safety for Multimodal Fusion via Optimal-Transport Alignment	Eric Huang† (Engineering)
Gupta, Vijay	Poster #1002: 7/30 @ 10:30-11:30am	Understanding the Energy Demands of AI Data Centers	Adrian Rincon† (Engineering)
Gusev, Sergey	Talk #7020: 7/30 @ 11:40am	ChemOperator: A Reproducible Simulation Library for Chemical Engineering Operator Learning	Rohan Patel† (Engineering)
Guzha, Athanas	Poster #1019: 7/30 @ 10:30-11:30am	Mapping the RLCK Interactome in Tomato Immunity Using Proteomics	Bella Turnbull† (PWL)
Hall, Hana	Poster #1205: 7/30 @ 12:00-1:00pm	Exploring Rm62 involvement in aging as a regulator of R-loop homeostasis	Kendra Ellert† (Agriculture) Louis Michael Delaby* (JMHC)
Hall, Mark C	Poster #1026: 7/30 @ 10:30-11:30am	Using a yeast-2-hybrid assay to optimize the auxin inducible degron system	Savana Jankovic† (Agriculture)
Hamaker, Bruce R	Poster #1038: 7/30 @ 10:30-11:30am	Dietary Fibers Suppress Clostridioides difficile in In Vitro Human Fecal Fermentation	Kai Tran† (Agriculture)
Han, Jongwoo	Poster #1093: 7/30 @ 10:30-11:30am	Physics-Incorporated Digital Twin for Internal and External Weld Feature Prediction in Friction Stir Spot Welding	Minho Park† (Engineering)
Han, Kyungsoo	Poster #1054: 7/30 @ 10:30-11:30am	Comparing Single and Double Transmission Methods for Determining Seismic Wave Velocities in Rock	Logan Ray Thomas Carleton† (Science)
Hancock, Angela	Poster #1013: 7/30 @ 10:30-11:30am	Investigating the phenotypic and genetic basis of plagiotropy at high elevation in tropical alpine Arabidopsis thaliana	Hannah Flis† (PWL)
Haq, Fariha	Poster #1477: 7/30 @ 1:30-2:30pm	Machine Learning for Intermetallic Compound Growth Prediction in Flip-Chip Solder Joints	Nikhil K Raman†
Haque, Addrita	Poster #1074: 7/30 @ 10:30-11:30am	Assessment of Pseudomonas Fluorescens as a Non-Pathogenic Model Invader in Plumbing Systems	Mary C Kirby†
Hardin, Maison Claire	Poster #1086: 7/30 @ 10:30-11:30am	Synthesis of novel ligands to improve reactivity and selectivity of organometallic reactions through electric field catalysis	Sophia D Madrazo† (Science)

Name	Presentation	Title	Students
Harris, Gabriel Steven	Poster #1482: 7/30 @ 1:30-2:30pm	Regulation of bone remodeling through co-delivery of STING antagonist and phenamil nanocarriers.	Abigail Catherine Alexandert† (Vet Med)
Harris, Gabriel Steven	Poster #1484: 7/30 @ 1:30-2:30pm	Targeting Pro-Inflammatory Macrophages via Sialylated Nanocarriers for Treatment of Rheumatoid Arthritis	Gabrielle Marie Barrido† (PWL)
Harris, Michael T	Talk #7035: 7/30 @ 12:40pm	Cellulose Nanocrystals as a Biotemplate for Gold Nanomaterial Synthesis	Raina Wang† (Engineering) Halaya Vann‡ (Engineering)
Harris, Michael T	Talk #7062: 7/30 @ 2:40pm	Synthesis of biotemplated palladium-coated nanorods on cellulose nanocrystals	Halaya Vann† (Engineering) Raina Wang‡ (Engineering)
Hartzler, Samuel	Talk #7014: 7/30 @ 10:40am	High-Resolution Cellular STA using Ribosome Alignment	Anna Boeva† (PWL)
Hasanzadeh, sogand	Poster #1009: 7/30 @ 10:30-11:30am	Lean-Enabled Robotic Additive Construction	Nathan Daniel Weston† (Engineering)
Hassan, Ahmed Abdelkhale	Poster #1298: 7/30 @ 12:00-1:00pm	Advancing Better Therapies: Screening Pyrrolopyridine-Hydrazone Derivatives Against Clostridioides difficile	Katrina Mason† (PWL)
Hassan, Ahmed Abdelkhale	Poster #1311: 7/30 @ 12:00-1:00pm	Novel Therapeutic Advancements Against Enterococcal Infection	Olivia Lucille Kimmick† (Science) Alessia Lin Heisert† (Science)
Hassan, Ahmed Abdelkhale	Poster #1497: 7/30 @ 1:30-2:30pm	Evaluating the Antimicrobial Potential and Safety Landscapes within a Customized Chemical Library	Huda Touqeer Hussain† (HHS JMHC) Mahmoud Adel Mohamed Sayed Ahmed‡ (Vet Med)
Hauersperger, Daniel N	Poster #1405: 7/30 @ 1:30-2:30pm	ABETutor: Domain-Constrained AI Tutoring System	Paridhi Agarwal† (Engineering) Akshith Garapati* (Engineering)
He, Qixin	Poster #1463: 7/30 @ 1:30-2:30pm	Binding Frequency Mapping: A Broadly Applicable Structure for Comprehending Antibody Reactions in Various Viral Pathogens	Clayton Walden† (Science)
Heinz, Michael G	Poster #1047: 7/30 @ 10:30-11:30am	Standardized histological protocol to characterize cochlear synaptopathy in chinchillas after noise or blast exposure	Maria Catalina Aceros† (Engineering)
Hermida Casas, Jesus A	Poster #1297: 7/30 @ 12:00-1:00pm	Effects of Equine Pituitary Pars Intermedia Dysfunction on Forelimb Bone Mineral Density and Calculated Bone Strength	Teegan Acres† (Purdue University)
Hernandez Dominguez, Jorge Emanuel	Poster #1284: 7/30 @ 12:00-1:00pm	Identifying Drug Treatments for Functional Recovery After Spinal Cord Injury in Zebrafish	Raveena Venkateshwaran† (Science) Owen Joseph Jungblut‡ (Engineering) Sriyesh Senthil‡ (Science)
Hibbitts, David	Poster #1057: 7/30 @ 10:30-11:30am	Experimentally Probing Mechanistic Differences in Toluene Methylation with Methanol and Dimethyl Ether within H-MFI zeolite	Brendan Edward Crump† (Engineering)
Hibbitts, David	Poster #1417: 7/30 @ 1:30-2:30pm	Identifying the Role of Platinum in Decreasing Methanization during Polymer Upcycling on Bimetallic RuPt Alloy Catalysts	Renee Duan† (Engineering)
Hilger, Ryan T	Talk #7067: 7/30 @ 2:20pm	An automated workflow for Multi-Omics Analysis using Solvent Touch Extraction.	Jesus Esteban Ladino Giraldo† (PWL)
Hill, Megan Leigh	Poster #1491: 7/30 @ 1:30-2:30pm	Addition of pentanol enhance aqueous zinc metal battery lifetime and performance	Kaleb Caudle† (Science)

Students' Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Hirisave Shivaram, Niranjan	Poster #1462: 7/30 @ 1:30-2:30pm	Multimode Entanglement in Attosecond Controlled Squeezed Light	Sreeram Vengalloor Madhavan† (Science)
Hoagland, Lori	Poster #1022: 7/30 @ 10:30-11:30am	Utilizing Biochar and AMF Partnerships to mitigate Heavy Metal Contamination in Soil	Reuben Joshua De Dios† (Agriculture Engineering)
Hoagland, Lori	Poster #1062: 7/30 @ 10:30-11:30am	Molecular and Physiological Characterization of a Trichoderma Isolate from Peru	Gabriela Gomez Langebeck† (Agriculture)
Hoagland, Lori	Poster #1318: 7/30 @ 12:00-1:00pm	Examining the effects of foliar-applied Bacillus subtilis on tomato phyllosphere microbiome and disease outcome	Madeline Marie Peterson† (Agriculture)
Hodges, Owen R	Poster #1224: 7/30 @ 12:00-1:00pm	High-Resolution Monitoring of the Lake Michigan Shoreline Position Using Orthorectified Camera Imagery	Abner Obed Ruiz Pérez† (PWL)
Hogenesch, Harm	Poster #1299: 7/30 @ 12:00-1:00pm	Investigating the mechanism of an emulsion-based vaccine adjuvant	Quynh Lam Nguyen† (Science)
Holbrook, Ethan Wayne	Poster #1226: 7/30 @ 12:00-1:00pm	Radiation Cascade Studies in GST-C Using Molecular Dynamics	Agustin Abt† (Engineering) Aryan Rauniyar‡ (Engineering)
Holbrook, Ethan Wayne	Poster #1295: 7/30 @ 12:00-1:00pm	Radiation Cascade Simulations in GST-C Using Molecular Dynamics	Aryan Rauniyar† (Engineering) Agustin Abt† (Engineering)
Holdeman, CJ	Poster #1114: 7/30 @ 10:30-11:30am	Novel, Low-Cost PLA Biopolymer Based Monitoring of Ionizing Gamma Radiation Dose for Space-Based Microelectronics	Seth Everette Cowan† (Engineering)
Holdeman, CJ	Poster #1291: 7/30 @ 12:00-1:00pm	Improved Radiation Testing Methodology and Characterization of COTS Memory Devices with varying Memory and Package Size	Louis Vincent Buonaiuto† (Engineering)
Holdeman, CJ	Poster #1292: 7/30 @ 12:00-1:00pm	Association of Cumulative Lead Exposure and APOE ε4 Status with Cognitive Decline in Older Adults	Elisa Chen† (Science JMHC) Grace Ann Kowis‡ (HHS Liberal Arts)
Holdeman, CJ	Poster #1293: 7/30 @ 12:00-1:00pm	Coupled Phase-Field and Finite Element Modeling of Copper Pad Deformation in Hybrid Bonding Anneal	William Eunseok Jo†
Holdeman, CJ	Poster #1294: 7/30 @ 12:00-1:00pm	Analysis of Laser Wakefield Acceleration and the Beam-Loading Effect in Higher Dimensions	Keegan M Kita† (Science)
Holdeman, CJ	Poster #1295: 7/30 @ 12:00-1:00pm	Radiation Cascade Simulations in GST-C Using Molecular Dynamics	Aryan Rauniyar† (Engineering) Agustin Abt† (Engineering)
Holdeman, CJ	Poster #1296: 7/30 @ 12:00-1:00pm	Developing a Gate Boosted Pulse Generator to Drive Gas Discharge Tube Based Nonlinear Transmission Line System	Luke Alexander Trahin† (Engineering) Samuel Christian Olenick* (Engineering)
Holdeman, CJ	Poster #1472: 7/30 @ 1:30-2:30pm	Educational Gap Analysis of SCALE HIAP Course Content Using Educational Mapping	Nathan Grant Clark† (Engineering) Junyi Xiu* (Vanderbilt University) Olyver Fierro* (Engineering) Eileen Koh* (Engineering)
Holdeman, CJ	Poster #1473: 7/30 @ 1:30-2:30pm	Characterization of a Well-Type NaI(Tl) Detector for In-Vivo Neutron Activation Analysis Application	John W Fabian†
Holdeman, CJ	Poster #1474: 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis of SCALE Educational Resources for System-on-Chip Workforce Development	Olyver Fierro† (Engineering) Eileen Koh‡ (Engineering) Junyi Xiu* (Vanderbilt University) Nathan Grant Clark* (Engineering)
Holdeman, CJ	Poster #1475: 7/30 @ 1:30-2:30pm	Measuring degradation of Thermal Interface Materials	Richard Zhixiong Li† (Engineering)

Name	Presentation	Title	Students
Holdeman, CJ	Poster #1477: 7/30 @ 1:30-2:30pm	Machine Learning for Intermetallic Compound Growth Prediction in Flip-Chip Solder Joints	Nikhil K Raman†
Holdeman, CJ	Poster #1478: 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis for SCALE Radiation-Hardening Technical Vertical	Junyi Xiu† (Vanderbilt University) Olyver Fierro* (Engineering) Nathan Grant Clark* (Engineering) Eileen Koh* (Engineering)
Holdeman, CJ	Talk #7063: 7/30 @ 2:00pm	Mapping the Stacking and Surface Chemistry Landscape of MXenes and Metal Carbides via DFT and Molecular Dynamics	Samiya Balu† (Engineering) Sahana Mukund‡ (Science)
Holdeman, CJ	Talk #7064: 7/30 @ 2:20pm	Miniaturizing X-Ray Fluorescence Spectroscopy Through Simulation-Driven Vacuum Chamber Design	Ashwin Natarajan†
Holdeman, CJ	Talk #7065: 7/30 @ 2:40pm	Comparison of Neutron Detectors and Evaluation of Shielding Materials for Space Microelectronics	Jack G Darby† (Engineering)
Holdeman, CJ	Talk #7084: 7/30 @ 3:20pm	Temperature Annealing Properties of a Commercial Optical Transceiver in the Subcritical Pile and Nuclear Reactor	Brandon Anthony Farber† (Engineering)
Holdeman, CJ	Talk #9006: 7/27-7/31 virtually	Systematic Gap Analysis for SoC Curriculum Development	Eileen Koh† (Engineering) Olyver Fierro‡ (Engineering) Junyi Xiu* (Vanderbilt University) Nathan Grant Clark* (Engineering)
Hong, Jinsu	Poster #1024: 7/30 @ 10:30-11:30am	Development and scale-up of a standardized in vitro swine digestion model to evaluate nutritional value of feed ingredients	Xinhui Katherine Huang† (Agriculture)
Hoq, Mahmudul	Poster #1088: 7/30 @ 10:30-11:30am	Selective Delamination of Lithium-Ion Battery Cathodes Using Mild Alkaline System for Direct Recycling	Sohyun Moon† (Engineering)
Hoq, Mahmudul	Poster #1466: 7/30 @ 1:30-2:30pm	Optimization of solvent based direct recycling for electrode delamination	Ty Richard Yaguchi† (Engineering)
Horgan, Briony H	Talk #7008: 7/30 @ 10:40am	Radar-Based Identification of Buried Lava Flows in the Moon's South Pole-Aitken Basin	Liliana Triscari† (Science) Aaron Lee Perrault* (Science) Miah KeAnna Sinks* (Science)
Hosen, Jacob Daniel	Poster #1027: 7/30 @ 10:30-11:30am	The Influence of Drought Conditions on Freshwater Mussel Movement in Indiana Rivers	Eva Corinne Moriet† (Agriculture Engineering) Alexis M Howat* (Agriculture)
Hoskins, Tyler D	Poster #1118: 7/30 @ 10:30-11:30am	Exploratory Analysis of Plasma Lipid Profiles in Largemouth Bass Across a PFAS Exposure Gradient	Maria Jose Suarez Monroy† (PWL)
Hribljan, Anja	Talk #7020: 7/30 @ 11:40am	ChemOperator: A Reproducible Simulation Library for Chemical Engineering Operator Learning	Rohan Patel† (Engineering)
Hsu, Jessica	Poster #1220: 7/30 @ 12:00-1:00pm	Caffeic Acid-Tin Nanoparticles for Acute Kidney Injury Treatment	Alexander Nikos Koron† (PWL)
Hu, Haochuan	Poster #1451: 7/30 @ 1:30-2:30pm	Computer Vision for Fencing Video Analysis	Jacob Lee Prior† (Engineering) Andrew Thomas Choung* (Engineering)
Huang, Rong	Poster #1217: 7/30 @ 12:00-1:00pm	Computational and Experimental Analysis of SAH Hydrolase inhibition by Adenosine Analogs	Emily Truong† (PWL)
Huckaba, Quinn	Poster #1433: 7/30 @ 1:30-2:30pm	LLM-Guided Evolutionary Discovery of Reaction Networks from Transient Data via Programmatic Search and Nonlinear Optimization	Leland Li† (Engineering)

Name	Presentation	Title	Students
Huckabee, Reagan Cole	Poster #1106: 7/30 @ 10:30-11:30am	Evaluating the Effect of Framework Aluminum Distributions on the Hydrothermal Stability of Phosphorus-Modified MFI Zeolites	Emerson Waltz† (Engineering)
Hussain, Muhammad Mustafa	Poster #1275: 7/30 @ 12:00-1:00pm	VISIBLE: Visualizing Infant Developmental States Through Noninvasive Multisensory Bioelectronics	Andrea Rocha Barajas† (Engineering)
Ibekwe, Jeffery Godwin Chibueze	Talk #9012: 7/27-7/31 virtually	Vancomycin Functionalized DNA Hydrogel on Titanium Surfaces Against Implant Infections	Ikechi M Johnson† (Engineering) Lara Teresa Muniz‡ (Engineering)
Inouye, David Iseri	Poster #1078: 7/30 @ 10:30-11:30am	Teaching AI to See Past Style: A Reproducible CAPTCHA-Style Tool for Curating Invariant Image Pairs	Andre Lee† (Engineering) Akshith Garapati‡ (Engineering)
Inouye, David Iseri	Poster #1242: 7/30 @ 12:00-1:00pm	Geographic Robustness for Agricultural Earth Observation Foundation Models through Post-Hoc Adaptation	Akshith Garapati† (Engineering)
Invitti, Marcelo	Poster #1486: 7/30 @ 1:30-2:30pm	Evaluating Wi-Fi Signal Strength in Residential Environments: The effects of building materials and appliance interference	Akshita Bhavanishankar† (Engineering)
Islam, Raisul	Talk #7000: 7/30 @ 10:00am	Nanoscale Thermal Transport Mapping and Interfacial Constraints of Individual Layers for Titanium Carbide (Ti3C2Tx) MXene	Johanna Walther† (Engineering)
Iyer, Shalini	Poster #1092: 7/30 @ 10:30-11:30am	Exploring the Structure and Function of Ceg14, a Legionella pneumophila Effector Protein, and its Binding Partners	Isabel M Owens† (Science)
Iyer, Shreyas Ganesan	Talk #7074: 7/30 @ 2:40pm	Optimization of a Folate Conjugated Fully Modified miR-34a for Enhanced Stability, Uptake, and Activity	Aindri Abhishek Singh† (PWL)
Jain, Anika	Poster #1213: 7/30 @ 12:00-1:00pm	Information Theoretic Analysis of Protein Structures	Laura Dong† (PWL)
Jakalski, Nicholas	Talk #7054: 7/30 @ 1:00pm	DNA Origami Nanocube Scaffold for Production of Multiple Therapeutic RNA Sequences	Logan M Murray† (Engineering)
Jakalski, Nicholas	Talk #9012: 7/27-7/31 virtually	Vancomycin Functionalized DNA Hydrogel on Titanium Surfaces Against Implant Infections	Ikechi M Johnson† (Engineering) Lara Teresa Muniz‡ (Engineering)
Jakob, Emily R	Poster #1064: 7/30 @ 10:30-11:30am	Geometric Control of Drug Release in Additively Manufactured Dosage Forms Using Vibration-Assisted Printing	Vincent John Graciano† (Engineering)
Jakob, Emily R	Poster #1065: 7/30 @ 10:30-11:30am	An Intelligent, High-Throughput Microfluidic Sorter for Drosophila melanogaster Embryos	Sicheng He† (Science) Ayush Ashok Khondge‡ (PWL) Nolan H Nguyen‡ Qingyang Sun‡ (Engineering) Elizabeth Renee Murotani‡ (Science) Bosco Lee‡ Aaron W Berntsen‡ (Engineering JMHC) Lucas Bin Fan Wu‡ (Unknown)
Jakob, Emily R	Poster #1066: 7/30 @ 10:30-11:30am	Micro-Morphing Aerial Vehicle for Passive Controlled Descent	Jamie Chanadol Henson† (Engineering) Kai X Keller† (Engineering)

Name	Presentation	Title	Students
Jakob, Emily R	Poster #1068: 7/30 @ 10:30-11:30am	Development of an AI-Assisted Workflow for Automated Analysis of Untargeted Nano-DESI Mass Spectrometry Imaging Data	Joseph Anthony Janicek† (Science)
Jakob, Emily R	Poster #1072: 7/30 @ 10:30-11:30am	AudioFix: Bridging the Expertise Gap in Acoustic Fault Diagnosis with Multimodal AI	Nathan Maharaj Kharwanlang† (Engineering)
Jakob, Emily R	Poster #1097: 7/30 @ 10:30-11:30am	Characterization of the Separation via Reverse Osmosis in Chemicaloric Refrigeration Cycles	Rohan Ashish Shrowty† (Engineering)
Jakob, Emily R	Poster #1113: 7/30 @ 10:30-11:30am	Differential Gene Expression Signatures Define Individual Vulnerability to Environmental Toxins in Alzheimer's Disease	Lucia X Zhang† (Engineering)
Jakob, Emily R	Poster #1225: 7/30 @ 12:00-1:00pm	Quasi-Steady State Performance Analysis of a Dual-Module Humidity Pump and Heat Pump Integrated Industrial Dryer	Md Sadat Aarik† (Engineering) Ishan Gopu Nair‡ (Engineering) Mudit Pandey‡ (Engineering)
Jakob, Emily R	Poster #1229: 7/30 @ 12:00-1:00pm	2D and 4D Ultrasound Assessment of Ejection Fraction in an Empagliflozin-Treated Murine Model of Duchenne Muscular Dystrophy	Olivia Bell† (Engineering) Alekh Pratish Shah‡ (Engineering) Xavier Thomas Cedric Tribout‡ (PWL)
Jakob, Emily R	Poster #1242: 7/30 @ 12:00-1:00pm	Geographic Robustness for Agricultural Earth Observation Foundation Models through Post-Hoc Adaptation	Akshith Garapati† (Engineering)
Jakob, Emily R	Poster #1284: 7/30 @ 12:00-1:00pm	Identifying Drug Treatments for Functional Recovery After Spinal Cord Injury in Zebrafish	Raveena Venkateshwaran† (Science) Owen Joseph Jungblut‡ (Engineering) Sriyesh Senthil‡ (Science)
Jakob, Emily R	Poster #1405: 7/30 @ 1:30-2:30pm	ABETutor: Domain-Constrained AI Tutoring System	Paridhi Agarwal† (Engineering) Akshith Garapati* (Engineering)
Jakob, Emily R	Poster #1421: 7/30 @ 1:30-2:30pm	Association Between Hemodynamics and Vessel Wall Enhancement in Intracranial Aneurysms	Diego Alejandro Hernandez Acosta† (Engineering)
Jakob, Emily R	Poster #1427: 7/30 @ 1:30-2:30pm	Extending Rumoca with eFMI GALEC for Embedded Controller Generation	Pradyunn Vikram Kale† (Engineering)
Jakob, Emily R	Poster #1439: 7/30 @ 1:30-2:30pm	Microchip integration of a novel communications technology	Lucas Munoz† (Polytechnic)
Jakob, Emily R	Poster #1446: 7/30 @ 1:30-2:30pm	Spatial Optimization of Intracortical Ultramicroelectrode Stimulation	Evelynn Marie Papez† (Engineering JMHC)
Jakob, Emily R	Poster #1454: 7/30 @ 1:30-2:30pm	Evaluation of SpeedBox Connection Strength	Chris Schoenherr† (Polytechnic)
Jakob, Emily R	Poster #1470: 7/30 @ 1:30-2:30pm	Investigation of the Photochemical Degradation of 6PPD Using UV-Vis Spectroscopy and Liquid Chromatography	Sana Azat† (Science)
Jakob, Emily R	Poster #1524: 7/30 @ 1:30-2:30pm	Task Design Effects on Student Knowledge Prioritization in CRISPR Gene-Therapy Tasks	Jennifer Hyerin Yang† (Pharmacy)
Jakob, Emily R	Talk #7019: 7/30 @ 11:20am	Designing a Game-Based Learning Platform for Teaching Mathematical Optimization	Huy Bao Huynh† (Engineering)
Jang, Jinho	Poster #1212: 7/30 @ 12:00-1:00pm	Development of G-Quadruplex Database for Structural and Comparative Analysis	Sebastian Cruz† (PWL)

Name	Presentation	Title	Students
Jang, Jinho	Poster #1288: 7/30 @ 12:00-1:00pm	Characterization of Benzothiazolium Ligand Binding to MYC G-quadruplex DNA using Biophysical Methods	Lorelei B Xia [†] (Pharmacy)
Jang, Junmyoung	Poster #1049: 7/30 @ 10:30-11:30am	Acoustic Detection of Tool Changes in CNC Milling via Deep Learning	Minseong An [†]
Jang, Junmyoung	Poster #1093: 7/30 @ 10:30-11:30am	Physics-Incorporated Digital Twin for Internal and External Weld Feature Prediction in Friction Stir Spot Welding	Minho Park [†] (Engineering)
Jeannette, Paisley Lilliana	Poster #1499: 7/30 @ 1:30-2:30pm	Uncovering Structural Determinants of Substrate Scope in a Peptide Cyclase Enzyme Family	Lucas O Johnson [†] (Science)
Jengelley, Dwaine H	Talk #7071: 7/30 @ 2:40pm	Beyond the Game: Exploring Sport, Culture, and Community Through Experiential Learning in Türkiye	Aarushi Gupta [†] (Science)
Jewell, Alexandra May	Poster #1011: 7/30 @ 10:30-11:30am	Using Hyperspectral Reflectance Models to Estimate Turgor Loss Point in Diverse Maize Germplasm	Michael Blados [†] (PWL)
Jewell, Joseph S	Poster #1272: 7/30 @ 12:00-1:00pm	An Experimental Study on Ice Droplet Breakup Within the Purdue 3-Inch Shock Tube	Caleb Jonathan Radtke [†] (Engineering) Alex Perry [†] (Engineering)
Jewell, Joseph S	Talk #7016: 7/30 @ 11:20am	Ice-Droplet Interaction with Supersonic Shock Waves	Alex Perry [†] (Engineering) Caleb Jonathan Radtke [†] (Engineering)
Ji, Yanru	Talk #9017: 7/27-7/31 virtually	Modelling Multiple Pathologies of Alzheimer's Disease Using Human-Mouse Chimeric Brains	Akhil Pinnapareddy [†] (Liberal Arts Vet Med)
Jiao, Dan	Poster #1246: 7/30 @ 12:00-1:00pm	An Empirical Study of LLM-Driven Microwave Circuit Design	Elijah Goodman [†] (Rochester Institute of Technology)
Jin, Guangzhen	Talk #9004: 7/27-7/31 virtually	Pelican as a Data Delivery Mechanism for HPC Workflows on Anvil	Branden Turner [†] (PWL)
Johns, Cortland Hannah	Poster #1401: 7/30 @ 1:30-2:30pm	Ultrasound Assessment of BAPN-Induced Thoracic Aortic Aneurysm Progression in Juvenile Mice	Kayla A Fischer [†] (Centers & Institutes) Eesha Khalid Faruqi [†] (HHS) Julian Vuong [‡] (Engineering)
Johns, Cortland Hannah	Talk #7044: 7/30 @ 12:40pm	Comparison of scanning electron microscopy and histological observations of human aorta tissue	Bea Olivia Cabot [†] (HHS Science)
Jones, Timothy Matthew	Poster #1115: 7/30 @ 10:30-11:30am	Gantry Camera Machine Vision Study	Conner B Stott [†] (Science)
Ju, Tingting	Poster #1030: 7/30 @ 10:30-11:30am	Smart Capsule Microbiome Profiling to Map Weaning Adaptation and Improve Swine Gastrointestinal Health	Nina O'Tain [†] (Agriculture) Sarabeth Grace Hargarten [*] (Agriculture) Sierra J Kingsford [*] (Agriculture) Grace Mae Kraemer [*] (Agriculture)
Jun, Martin Byung-Guk	Poster #1049: 7/30 @ 10:30-11:30am	Acoustic Detection of Tool Changes in CNC Milling via Deep Learning	Minseong An [†]
Jun, Martin Byung-Guk	Poster #1093: 7/30 @ 10:30-11:30am	Physics-Incorporated Digital Twin for Internal and External Weld Feature Prediction in Friction Stir Spot Welding	Minho Park [†] (Engineering)
Jung, Andy	Poster #1449: 7/30 @ 1:30-2:30pm	Automation Methods for Gamma Ray Spectroscopy and Data Analysis	Truman Carl Parrish [†] (Science) Ananya Molugu [†] (Science)
Jung, Andy	Talk #7007: 7/30 @ 10:20am	Pixel-Wise Gamma-Ray Coincidence Detection Using U-Net Convolutional Networks	Samuel D Bryan [†] (Science) Erick Vazquez Torres [†] (Science)
Jung, Andy	Talk #7052: 7/30 @ 1:20pm	Machine-Learning-Driven Nuclear Band Reconstruction from γ - γ Coincidence Data	Josiah W Beauchaine [†] (Science) Truman Carl Parrish [‡] (Science)

Name	Presentation	Title	Students
Jung, Daniel Johannes	Poster #1071: 7/30 @ 10:30-11:30am	Optimization of Wafer-Scale MoSe ₂ Growth via Molecular Beam Epitaxy	Brayden Kauffmann [†] (Science) Aditya H Joshi [‡] (Engineering)
Jung, Daniel Johannes	Poster #1500: 7/30 @ 1:30-2:30pm	Optimizing Air-Annealing Parameters for Single-Step Surface Morphology on C- and A-Plane Sapphire	Aditya H Joshi [†] (Engineering) Brayden Kauffmann [*] (Science)
Jung, Kyle Henry	Poster #1053: 7/30 @ 10:30-11:30am	FractureTAU: A Spatiotemporal-Attention Deep-Learning Surrogate for Long-Horizon Fracture Forecasting in Microstructures	Juan I Cantarella [†] (Engineering)
Jung, Losha Dasol	Poster #1423: 7/30 @ 1:30-2:30pm	Bone-Targeted Radioligand Therapy for Multiple Myeloma	Juyeon Im [†] (Science) Yunsuk Lee [‡] (HHS) Tara Ruslen Blanc [‡] (Science)
Kaboolian, Matthew	Poster #1095: 7/30 @ 10:30-11:30am	Characterization of Strain Acquisition in Thermoreversible Acrylic Gels Using Rheo-Particle Image Velocimetry	Zachary Ryan Roeder [†] (Engineering)
Kaboolian, Matthew	Poster #1244: 7/30 @ 12:00-1:00pm	Coated in slime: the physical properties of skin mucus across fish species	Gabriela Garcia Cardenas [†] (Science)
Kamath, Krutarth Kiran	Poster #1436: 7/30 @ 1:30-2:30pm	Understanding the Optical Properties of MXenes	Vedha Masuraha [†] (Engineering Liberal Arts)
Kamath, Krutarth Kiran	Talk #7000: 7/30 @ 10:00am	Nanoscale Thermal Transport Mapping and Interfacial Constraints of Individual Layers for Titanium Carbide (Ti ₃ C ₂ Tx) MXene	Johanna Walther [†] (Engineering)
Kanakri, Haitham	Poster #1432: 7/30 @ 1:30-2:30pm	Design and Simulation of a 64 MHz Birdcage Antenna System with a Reflective Cap for Non-Invasive Alzheimer's Disease Therapy	Hao-Chen Li [†] (Engineering)
Kang, Kyubyung	Poster #1004: 7/30 @ 10:30-11:30am	Context-Enhanced Vision-Language Models for Bridge Condition Rating	Dylan Friedman [†] (Polytechnic)
Karakas, Lucille Esther	Poster #1281: 7/30 @ 12:00-1:00pm	Contribution of roots vs shoots to adaptive cold acclimation in Arabidopsis thaliana	Colleen Ryan Squier [†] (Agriculture) Stephanie Tirado Rojas [*] (Agriculture)
Karcher, Darrin M	Poster #1322: 7/30 @ 12:00-1:00pm	Lighting conditions shape visual perception of objects across pasture, aviary, and enriched colony housing systems	Julian Leonard Smith [†] (Agriculture)
Karcher, Darrin M	Poster #1324: 7/30 @ 12:00-1:00pm	The Effect of Unit Distance on Flock Integration in Free-Range Laying Hens on Pasture	Shanell Andria Taylor [†] (Agriculture)
Karslioglu, Isik Gokcen	Poster #1115: 7/30 @ 10:30-11:30am	Gantry Camera Machine Vision Study	Conner B Stott [†] (Science)
Kashgarani, Haniye	Talk #9001: 7/27-7/31 virtually	GTAP Insight Engine: AI Agents for Scientific Computing	Eric Jin [†] (Science JMHC) Howie Lin [†] (PWL)
Kashgarani, Haniye	Talk #9002: 7/27-7/31 virtually	GTAP Insight Engine: AI Agents for Scientific Computing	Howie Lin [†] (PWL) Eric Jin [†] (Science JMHC)
Kasinski, Andrea L	Talk #7074: 7/30 @ 2:40pm	Optimization of a Folate Conjugated Fully Modified miR-34a for Enhanced Stability, Uptake, and Activity	Aindri Abhishek Singh [†] (PWL)
Kaufmann, Erika Birgit	Poster #1323: 7/30 @ 12:00-1:00pm	Topological Properties of Multi-Species Exclusion Processes	Esha Sury [†] (Science) Dhruv Upreti [†] (Science)
Kaufmann, Ralph Martin	Poster #1323: 7/30 @ 12:00-1:00pm	Topological Properties of Multi-Species Exclusion Processes	Esha Sury [†] (Science) Dhruv Upreti [†] (Science)
Kaur, Upinder	Poster #1289: 7/30 @ 12:00-1:00pm	SCOUT: An in-vivo Methane Sensing System for Real-time Monitoring of Enteric Emissions in Cattle	Zihan O Zeng [†] (Engineering JMHC)

Name	Presentation	Title	Students
Kaur, Upinder	Poster #1461: 7/30 @ 1:30-2:30pm	Investigating the Integration of Dense Vision and Non-Traditional Sensing Modalities for Robust Robotic Perception	Gabriel Torres† (Engineering)
Kazemian, Majid	Poster #1206: 7/30 @ 12:00-1:00pm	Production of Bispecific T-Cell Engagers in Rosetta-gami 2 (DE3) Cells	Teresa Hayden† (Agriculture) Yuxin Zhuang‡ (Agriculture) Pragya Jain* (Agriculture)
Kazemian, Majid	Poster #1518: 7/30 @ 1:30-2:30pm	Designing Microfluidic Chips for Accurate Neutralizing-Antibody Capture Using Magnetophoresis	Maia Stef-Praun† (Engineering)
Keehn, Brandon	Poster #1125: 7/30 @ 10:30-11:30am	Validating Eye-Tracking Biomarkers for Autism Diagnosis in Low- and Middle-Income Countries	Sunny Yoon† (Science)
Kelleher, Bridgette	Talk #7049: 7/30 @ 1:20pm	Socioeconomic Status as a Moderator of ACT Outcomes in Caregivers of Children with Neurogenetic Conditions	Chenrui Yin† (HHS Science)
Kessler, Sharon A	Poster #1498: 7/30 @ 1:30-2:30pm	Protein-protein interactions among pollen tube reception regulators	Andrea Carmen Jacobson† (Agriculture Science)
Khan, Shaista ijaz	Poster #1415: 7/30 @ 1:30-2:30pm	Build Large AI-Ready Database for Interface Science	Wen Xun Chua† (Science)
Khira, Reem	Poster #1452: 7/30 @ 1:30-2:30pm	The Emerging Role of Agentic AI in Transportation and Logistics	Reyam Roumeih† (Engineering)
Khira, Reem	Talk #7066: 7/30 @ 2:00pm	Supply chain regionalization and the viability of an AI server hub for Latin America: a system dynamics analysis of Panama	Natasha Catherine Farias Cisneros† (PWL)
Khorsandi, Majid	Poster #1473: 7/30 @ 1:30-2:30pm	Characterization of a Well-Type NaI(Tl) Detector for In-Vivo Neutron Activation Analysis Application	John W Fabian†
Kihara, Daisuke	Poster #1213: 7/30 @ 12:00-1:00pm	Information Theoretic Analysis of Protein Structures	Laura Dong† (PWL)
Kihara, Daisuke	Poster #1216: 7/30 @ 12:00-1:00pm	DAQnuc: Per-Atom and Per-Residue Quality Assessment for Nucleic Acid Models from Cryo-EM Density Maps	Isaiah Philip† (PWL) Devanshi Gupta‡ (PWL)
Kildishev, Alexander V	Poster #1239: 7/30 @ 12:00-1:00pm	Statistical Methods for Predicting Instability in Quantum Emitters	Abhigyan Doshi† (Engineering)
Kildishev, Alexander V	Poster #1469: 7/30 @ 1:30-2:30pm	Implement BiLSTM on FPGA for Anticipating Decoherence	Caleb Enos Zhang† (Engineering JMHC) Sarathak Tandon‡ (Engineering)
Kim, Dongseok	Poster #1016: 7/30 @ 10:30-11:30am	Tracking algal endosymbiont loss in Paramecium bursaria after cycloheximide treatment	Owen Ososki† (Purdue University)
Kim, Garam	Poster #1200: 7/30 @ 12:00-1:00pm	Service Life Assessment of Additively Manufactured Carbon Fiber Reinforced Thermoplastic Composite Tooling	Changho Lee† (Centers & Institutes)
Kim, Jae Ho	Poster #1015: 7/30 @ 10:30-11:30am	Crosstalk between ethylene biosynthesis and autophagy in response to stress	Alexus Moriah Johnson† (PWL)
Kim, Jun	Poster #1056: 7/30 @ 10:30-11:30am	Modulation of Mechanical, Injectable and Degradation Characteristics of MMP Cleavable Microgels to Advance Tissue Repair	Daniel Chi Hsien Chen Sandi† (Engineering)
Kim, Min Sung	Poster #1275: 7/30 @ 12:00-1:00pm	VISBLE: Visualizing Infant Developmental States Through Noninvasive Multisensory Bioelectronics	Andrea Rocha Barajas† (Engineering)
Kim, Mingyu	Poster #1078: 7/30 @ 10:30-11:30am	Teaching AI to See Past Style: A Reproducible CAPTCHA-Style Tool for Curating Invariant Image Pairs	Andre Lee† (Engineering) Akshith Garapati‡ (Engineering)

Students' Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Kim, Sun Young	Poster #1119: 7/30 @ 10:30-11:30am	Comparing the Accuracy of Transcondylar Screw Placement Between Drill Bit and K-wire in Canine Humeral Condyle	Kotoe Jodie Yoshitomi† (Science JMHC)
Kim, Tae Yoon	Poster #1050: 7/30 @ 10:30-11:30am	Computational Investigation of Actin Cytoskeleton in Plant Cells	Rishab Anand† (Engineering)
Kim, Tae Yoon	Talk #7018: 7/30 @ 11:00am	Force Generation and Contraction of the Actin Cytoskeleton	Vahin Pichairaj† (Engineering)
King, Hanna Danielle	Poster #1321: 7/30 @ 12:00-1:00pm	Investigating If The D to Y Mutation Relieved Auto Inhibition By The Distal C Terminal Domain in Phospholipase C β 4 Using BRET	Gregorio Romagnoli Oliveira† (Science)
Kingston, Zachary Kalen	Poster #1431: 7/30 @ 1:30-2:30pm	The Development, Assembly, and Training of a Low-cost Bipedal Robot	Yuet Ching Jolie Lai† (Engineering Science) Gilbert Chang‡ (Engineering Science) Zihan Lin‡ (Science) Andrew Li Niu‡ (Science)
Kinzer-Ursem, Tamara L	Poster #1061: 7/30 @ 10:30-11:30am	Tiam1 as a candidate mediator for Calcium-dependent actin remodeling events in the egg-to-embryo transition	Auriani Faviola Gomez Cintron† (Engineering)
Kinzer-Ursem, Tamara L	Poster #1075: 7/30 @ 10:30-11:30am	Functionalization of DNA tetrahedra for in vitro testing of siRNA delivery across the Blood-Brain Barrier	Anna Louise Kokosa† (Science JMHC) Megan Webb‡ (Agriculture)
Kinzer-Ursem, Tamara L	Poster #1096: 7/30 @ 10:30-11:30am	Characterization of Dual dsDNA tetrahedra assembly conditions	Nasser H Sanwari† (Engineering Science) Rebecca Rose Phelan* (Engineering)
Kinzer-Ursem, Tamara L	Poster #1241: 7/30 @ 12:00-1:00pm	Functionalized DNA Tetrahedra for siRNA Delivery Across the Blood–Brain Barrier	Emma Foster† (Engineering Science)
Kinzer-Ursem, Tamara L	Poster #1271: 7/30 @ 12:00-1:00pm	Optimizing DNA Tetrahedron Assembly for Blood-Brain Barrier Drug Delivery	Rebecca Rose Phelan† (Engineering) Nasser H Sanwari* (Engineering Science)
Kinzer-Ursem, Tamara L	Poster #1276: 7/30 @ 12:00-1:00pm	Investigating Particle Diffusometry during Conjugation of Biotinylated Products to Streptavidin-Coated Particles	Shreeya Roy† (Engineering)
Kinzer-Ursem, Tamara L	Poster #1416: 7/30 @ 1:30-2:30pm	Functionalized DNA Tetrahedra to Enhance Cellular Uptake for siRNA Delivery Across the Blood–Brain Barrier	Abigail R Deaton† (Science JMHC)
Kirby, Teri	Poster #1221: 7/30 @ 12:00-1:00pm	Salience of Racial Demographic Shift and Childlessness Information on Attitudes Towards Reproductive Choices	Jasmine Yichen Lu† (PWL)
Klatt, Kendahl R	Poster #1224: 7/30 @ 12:00-1:00pm	High-Resolution Monitoring of the Lake Michigan Shoreline Position Using Orthorectified Camera Imagery	Abner Obed Ruiz Pérez† (PWL)
Kolbinger, Fiona	Poster #1273: 7/30 @ 12:00-1:00pm	Evaluating State-of-the-Art LLMs on Postoperative Commentary for Automated Surgical Feedback	Rushil Ramchand† (Engineering)
Kolhe, Om Tejas	Talk #7015: 7/30 @ 11:00am	Recovering Behaviorally-Relevant Neural Trajectories from Motor Cortex Using Dynamical and Probabilistic Models	Samridh Tiwari† (Engineering)
Kolisetty, Adithya	Poster #1450: 7/30 @ 1:30-2:30pm	Two-Way Coupled Particle-Air Flow Simulation for Improved Erosion Prediction in Aircraft Engine Compressors	Daniel J V Pike† (Engineering) Sai Kasturi Kamila* (Engineering JMHC)

Name	Presentation	Title	Students
Kolisetty, Adithya	Poster #1501: 7/30 @ 1:30-2:30pm	Automated Image Correlation Analysis of Particle Impact for Solid Particle Erosion	Sai Kasturi Kamila† (Engineering JMHC) Melody Christine Yang† (Engineering) Daniel J V Pike* (Engineering)
Kondos, Kaitlyn Amber	Poster #1454: 7/30 @ 1:30-2:30pm	Evaluation of SpeedBox Connection Strength	Chris Schoenherr† (Polytechnic)
Kondratiuk, Kostiantyn	Poster #1421: 7/30 @ 1:30-2:30pm	Association Between Hemodynamics and Vessel Wall Enhancement in Intracranial Aneurysms	Diego Alejandro Hernandez Acosta† (Engineering)
Kong, Nan	Poster #1403: 7/30 @ 1:30-2:30pm	A Multi-Modal iOS App for Interview Transcript Capture and LLM-Based Entity Extraction in Opioid Recovery Pathway Mapping	Prisha Marpu† (Centers & Institutes)
Kong, Nan	Poster #1506: 7/30 @ 1:30-2:30pm	A Low-Cost Readout Circuit for Real-Time Protein Sensing Using Electrochemical Impedance Spectroscopy	Aditi Magesh† (Engineering JMHC)
Kong, Nan	Talk #9018: 7/27-7/31 virtually	A Stability-Aware Machine Learning Framework for Immune-Related Prognostic Gene Signatures in Breast Cancer Relapse	Ramya Prasanna† (Science JMHC)
Kong, Nan	Talk #9020: 7/27-7/31 virtually	A Cloud-deployed Platform to Generate Expert-Annotated Data for AI-assisted Nursing Skills Assessment	Eric Tang† (Science)
Konstantinopoulos, Kali Nicole	Poster #1087: 7/30 @ 10:30-11:30am	A Tuberculosis Infection and Treatment ODE Model Investigating the Pharmacodynamics of Inhaled Antibiotics on Human Granuloma	Aidan Josef Monark† (Engineering)
Kortbeek, Ruy Wilhelmus Johannes	Poster #1020: 7/30 @ 10:30-11:30am	Regulation of terpene biosynthesis in <i>Nicotiana tabacum</i> by an isopentenyl diphosphate transporter	Leah Wong† (PWL)
Koslowski, Marisol	Poster #1053: 7/30 @ 10:30-11:30am	FractureTAU: A Spatiotemporal-Attention Deep-Learning Surrogate for Long-Horizon Fracture Forecasting in Microstructures	Juan I Cantarella† (Engineering)
Koslowski, Marisol	Poster #1477: 7/30 @ 1:30-2:30pm	Machine Learning for Intermetallic Compound Growth Prediction in Flip-Chip Solder Joints	Nikhil K Raman†
Koss, Wendy Ann	Poster #1302: 7/30 @ 12:00-1:00pm	Impact of Chronic Variable Stress on Neurobehavioral Function Following DMM Surgery in Mice.	Xander L Tuttle† (Vet Med)
Kouvaras Ostrowski, Anastasia	Poster #1230: 7/30 @ 12:00-1:00pm	Developing a Cave Virtual Reality Application for Geoscience Education using Collaborative Design to Establish Learning Goals	Anushka Bhav† (Polytechnic) Hiya Samanta‡ (Science)
Kouvaras Ostrowski, Anastasia	Poster #1277: 7/30 @ 12:00-1:00pm	Evaluating LiDAR Parameters for Immersive and Educational VR Cave Environments	Hiya Samanta† (Science) Anushka Bhav‡ (Polytechnic)
Kovvali, Hima bindu	Talk #7051: 7/30 @ 1:00pm	AI-Guided Engineering of Lipocalin Scaffolds for Programmable Small-Molecule Recognition	Atharva Bhatta† (Science)
Krishnan, Nikita	Poster #1091: 7/30 @ 10:30-11:30am	Investigating Acute Responses to Mild Blast Traumatic Brain Injury in an in vitro Human Tau-Expressing Neuronal Model	Natalia Nino Cocoma† (Vet Med)

Name	Presentation	Title	Students
Krishnan, Nikita	Poster #1124: 7/30 @ 10:30-11:30am	Differential Vulnerability of Excitatory and Inhibitory Synapses to Acrolein-Mediated Oxidative Damage	Maheen Syed† (Engineering) John Pao Miles* (Liberal Arts)
Krogmeier, James V	Poster #1240: 7/30 @ 12:00-1:00pm	Project Rosa: An Off-Grid Edge Computing Gateway for Agricultural Data	Pavle Duric† (Engineering Polytechnic) Spencer Michael Beane* (Engineering) Keri Lyn Christman* (PWL)
Krogmeier, James V	Poster #1256: 7/30 @ 12:00-1:00pm	Agricultural-Vehicle-Based Radio-Frequency Readout System for Underground Biodegradable Sensors and Batteries	Pataraphol Keeraswangporn† (Engineering)
Kuhn, Richard J	Talk #7013: 7/30 @ 10:20am	Investigating substitutions in Hypervariable Region 1 of Hepatitis C virus envelope protein E2 to improve antibody binding	Mei Qi Gordon-Washington† (PWL)
Kulkarni, Tejas Ravindra	Poster #1442: 7/30 @ 1:30-2:30pm	A Comparative Evaluation of Machine Learning Models for Heat Conduction Problems	Malavika Nair† (Engineering)
Kumar, Shashank	Poster #1462: 7/30 @ 1:30-2:30pm	Multimode Entanglement in Attosecond Controlled Squeezed Light	Sreeram Vengalloor Madhavan† (Science)
Lalani, Nasreen	Poster #1307: 7/30 @ 12:00-1:00pm	Using Community-Based Art Activities to Support Psychosocial Wellbeing Among Immigrant Youth: A Four-Week Pilot Study	Aarushi Gupta† (Science)
Lammert, Seth Daniel	Poster #1203: 7/30 @ 12:00-1:00pm	Developing a toolkit for the in vivo monitoring of circadian rhythmicity in <i>Drosophila Melanogaster</i>	Alan Cortes† (Agriculture)
Lancaster, Emily Nicole	Poster #1281: 7/30 @ 12:00-1:00pm	Contribution of roots vs shoots to adaptive cold acclimation in <i>Arabidopsis thaliana</i>	Colleen Ryan Squier† (Agriculture) Stephanie Tirado Rojas* (Agriculture)
Landis, Benjamin	Poster #1255: 7/30 @ 12:00-1:00pm	Exploration of Finetuning Methods for Deep Learning-Based Aortic Root Segmentation on Echocardiography	Julia Kang† (Engineering Science) Julian Vuong‡ (Engineering) Ojas Chaturvedi‡ (Science JMHC)
Landis, Benjamin	Talk #7010: 7/30 @ 10:20am	Beyond Diameter: Biomechanical Phenotyping of Pediatric Aortic Root Dilatation Across Etiologies	Julian Vuong† (Engineering) Julia Kang‡ (Engineering Science)
Landis, Benjamin	Talk #7044: 7/30 @ 12:40pm	Comparison of scanning electron microscopy and histological observations of human aorta tissue	Bea Olivia Cabot† (HHS Science)
Larkins, Hana Noell	Poster #1244: 7/30 @ 12:00-1:00pm	Coated in slime: the physical properties of skin mucus across fish species	Gabriela Garcia Cardenas† (Science)
Larson, Lillia Qing	Poster #1314: 7/30 @ 12:00-1:00pm	A systematic review of EEG research on error processing in schizophrenia	Seona James Mathew† (PWL) Lorelei Estella ro Fletcher† (JMHC) Morgan Denae Furlow† (Science)
Larson, Nissa	Poster #1259: 7/30 @ 12:00-1:00pm	Imaging and analysis of pSmad signaling following optogenetic BMP activation in zebrafish embryogenesis	Emma M Kindwall† (Engineering)
Laskin, Julia	Poster #1068: 7/30 @ 10:30-11:30am	Development of an AI-Assisted Workflow for Automated Analysis of Untargeted Nano-DESI Mass Spectrometry Imaging Data	Joseph Anthony Janicek† (Science)
Laskowski, Leon Filip	Poster #1321: 7/30 @ 12:00-1:00pm	Investigating If The D to Y Mutation Relived Auto Inhibition By The Distal C Terminal Domain in Phospholipase C β 4 Using BRET	Gregorio Romagnoli Oliveira† (Science)

Name	Presentation	Title	Students
LaTour, Parker Haven	Talk #7031: 7/30 @ 12:20pm	A Market-Driven Framework for Neutron Detection: Aligning Detector Technologies with Emerging Nuclear Applications	Lucas K Philip† (Engineering) Samuel B Angus* (Engineering) Cory Berlin Stephenson* (Engineering)
Lau, Holman	Talk #7055: 7/30 @ 1:20pm	NASA Hydrogen Drone Refueling Project	William Zheng† Benjamin Tencza‡ (Engineering) Nicolas Bustamante‡ (Engineering)
Lawrence, Jeremy Hugh	Poster #1491: 7/30 @ 1:30-2:30pm	Addition of pentanol enhance aqueous zinc metal battery lifetime and performance	Kaleb Caudle† (Science)
Lay, Adam Carson	Poster #1272: 7/30 @ 12:00-1:00pm	An Experimental Study on Ice Droplet Breakup Within the Purdue 3-Inch Shock Tube	Caleb Jonathan Radtke† (Engineering) Alex Perry† (Engineering)
Lay, Adam Carson	Talk #7016: 7/30 @ 11:20am	Ice-Droplet Interaction with Supersonic Shock Waves	Alex Perry† (Engineering) Caleb Jonathan Radtke† (Engineering)
Lay, Clark	Poster #1447: 7/30 @ 1:30-2:30pm	Converting Martian Soil to Rocket Fuel	Isaac Parks† (Engineering) Sahda Mohammadu Haroon* (Engineering) Princess Gloria Onyinyechi Okoli* (Engineering) Tejas Pandit*
Layman, Brady	Poster #1490: 7/30 @ 1:30-2:30pm	Monitoring Small-Scale Gas Activity Using Electrochemiluminescence Microscopy	Daniel Michael Carrel† (Science)
Lazo, Ariana Jolie	Poster #1043: 7/30 @ 10:30-11:30am	Exploring Mechanisms of PFAS Plant Uptake: Diffusion	Emma Sullinger† (PWL) Hannah Grace Forsythe‡ (Agriculture)
Lazorchak, Nathaniel Liam	Poster #1235: 7/30 @ 12:00-1:00pm	Towards translating Low Frequency Alternating Current (LFAC) stimulation for modulating bladder function	Martinos Christodoulides† (Engineering)
Lee, Ahreum	Poster #1434: 7/30 @ 1:30-2:30pm	Spatial-Light-Modulator-Generated Optical Tweezer Arrays for Neutral Atom Nanophotonics	Khanh Mai† (Science)
Lee, Donghoon	Poster #1276: 7/30 @ 12:00-1:00pm	Investigating Particle Diffusometry during Conjugation of Biotinylated Products to Streptavidin-Coated Particles	Shreeya Roy† (Engineering)
Lee, Du Ju	Poster #1093: 7/30 @ 10:30-11:30am	Physics-Incorporated Digital Twin for Internal and External Weld Feature Prediction in Friction Stir Spot Welding	Minho Park† (Engineering)
Lee, Jinyoung	Poster #1024: 7/30 @ 10:30-11:30am	Development and scale-up of a standardized in vitro swine digestion model to evaluate nutritional value of feed ingredients	Xinhui Katherine Huang† (Agriculture)
Lee, Jungmin	Poster #1475: 7/30 @ 1:30-2:30pm	Measuring degradation of Thermal Interface Materials	Richard Zhixiong Li† (Engineering)
Lee, Kyung Jun	Talk #7028: 7/30 @ 11:20am	Inert-Atmosphere Assembly of Encapsulated Air-Sensitive vdW Heterostructures with Machine-Learning Layer Identification	Manaswini Singh† (Science) Priya Mishra‡ (Science) Sagarika Menon‡ (Science)
Lee, Lan-Ying	Poster #1018: 7/30 @ 10:30-11:30am	Myosin XI-K Knockdown Effects on Agrobacterium T-DNA Integration into the Arabidopsis Genome	Kayla Saopraseuth† (PWL)
Lee, Linda S	Poster #1043: 7/30 @ 10:30-11:30am	Exploring Mechanisms of PFAS Plant Uptake: Diffusion	Emma Sullinger† (PWL) Hannah Grace Forsythe‡ (Agriculture)
Lee, Yonghyun	Poster #1049: 7/30 @ 10:30-11:30am	Acoustic Detection of Tool Changes in CNC Milling via Deep Learning	Minseong An†

Name	Presentation	Title	Students
Legarreta, Bren H	Poster #1064: 7/30 @ 10:30-11:30am	Geometric Control of Drug Release in Additively Manufactured Dosage Forms Using Vibration-Assisted Printing	Vincent John Graciano† (Engineering)
Leight, Matthew	Poster #1272: 7/30 @ 12:00-1:00pm	An Experimental Study on Ice Droplet Breakup Within the Purdue 3-Inch Shock Tube	Caleb Jonathan Radtke† (Engineering) Alex Perry† (Engineering)
Leight, Matthew	Talk #7016: 7/30 @ 11:20am	Ice-Droplet Interaction with Supersonic Shock Waves	Alex Perry† (Engineering) Caleb Jonathan Radtke† (Engineering)
Leon-Salas, Walter Daniel	Poster #1202: 7/30 @ 12:00-1:00pm	Development of a Reflective Solar Concentrator with a Steerable Beam and No Cosine Loss	Ava Robinson† (Liberal Arts)
Leon-Salas, Walter Daniel	Poster #1439: 7/30 @ 1:30-2:30pm	Microchip integration of a novel communications technology	Lucas Munoz† (Polytechnic)
Lescun, Timothy B	Poster #1297: 7/30 @ 12:00-1:00pm	Effects of Equine Pituitary Pars Intermedia Dysfunction on Forelimb Bone Mineral Density and Calculated Bone Strength	Teegan Acres† (Purdue University)
Leung, Zachary Ashton Chu	Poster #1418: 7/30 @ 1:30-2:30pm	Development and Characterization of a 3D DIPG Spheroid Model to Study Tumor-Immune Interactions in the Brain	Rohan Joseph Eapen† (Pharmacy)
Li, Can	Poster #1076: 7/30 @ 10:30-11:30am	Learning-Based Projection Methods for Nonconvex Constrained Optimization	Akhil Kota† (Engineering)
Li, Can	Poster #1433: 7/30 @ 1:30-2:30pm	LLM-Guided Evolutionary Discovery of Reaction Networks from Transient Data via Programmatic Search and Nonlinear Optimization	Leland Li† (Engineering)
Li, Can	Talk #7034: 7/30 @ 12:20pm	Machine Learning for Fast Decision Generation in Engineering Optimization	Samuel Kinstlinger† (Engineering)
Li, Christina W	Poster #1069: 7/30 @ 10:30-11:30am	Evaluation of platinum-tin and platinum-copper alloy catalysts for chemoselective hydrogen addition.	Daniel Esteban Jara Moreno† (Science)
Li, Christina W	Poster #1266: 7/30 @ 12:00-1:00pm	High-Throughput Electrochemical Synthesis of Amides on Ni(OH) ₂	Katherine Mader† (University of Texas at Austin)
Li, Christina W	Poster #1280: 7/30 @ 12:00-1:00pm	From Sulfur to Selenium: Hydrogen Evolution in Metal Intercalated Nanosheets Catalysts	Yuwen Song† (Engineering)
Li, Haitong	Poster #1285: 7/30 @ 12:00-1:00pm	Design and Automated Characterization Infrastructure for CMOS+X Integrated Systems	Henan Wang† (Engineering)
Li, Jingang	Poster #1234: 7/30 @ 12:00-1:00pm	Adhesive Interaction between Chitosan Microgel and Polystyrene Plastic Particle by Optical Tweezers	Pin-Yu Chen† (Engineering Science)
Li, Jingang	Poster #1407: 7/30 @ 1:30-2:30pm	Optically Reconfigurable Physically Unclonable Functions	Ruhaan Batta† (Engineering Polytechnic)
Li, Linlin	Poster #1227: 7/30 @ 12:00-1:00pm	Quantitative Analysis of Shape and Topological Changes in EVL Cells during zebrafish epiboly	Garv Atri† (Engineering Science)
Li, Linlin	Poster #1259: 7/30 @ 12:00-1:00pm	Imaging and analysis of pSmad signaling following optogenetic BMP activation in zebrafish embryogenesis	Emma M Kindwall† (Engineering)
Li, Linlin	Poster #1410: 7/30 @ 1:30-2:30pm	Complex biological process modelling using Bayesian Optimization	Eeshwar Ram Chalasani† (Engineering)

Name	Presentation	Title	Students
Li, Linlin	Poster #1457: 7/30 @ 1:30-2:30pm	Resolution restoration and segmentation of two-photon dendritic spine images using deep learning-based algorithms	Leonor Antunes Sinogas [†] (Science)
Li, Linlin	Talk #7078: 7/30 @ 3:00pm	BioSimulateAI: Turning Plain-Language Descriptions into Multi-Scale Biological Simulations	Aarush Agarwal [†] (Engineering)
Li, Qingchun	Poster #1007: 7/30 @ 10:30-11:30am	A Data-Sparse Workflow for Urban-Scale Building Energy Modeling Using Large Language Models	MIZUKI KUNO [†] (Polytechnic) AMBER JOSFIN RAMOS PINEDA [†] (Polytechnic)
Li, Tian	Poster #1400: 7/30 @ 1:30-2:30pm	ISF-DUIRI: From Fungi to Fiber — Sustainable Mycelium Paper and Packaging	Noah Daniel Brookst [†] (Agriculture Engineering JMHC)
Li, Tonglei	Poster #1286: 7/30 @ 12:00-1:00pm	Predicting Intrinsic Clearance Through Quantum-Informed Embedding of Molecular Surface in Machine Learning	Alissa Weigand [†] (Pharmacy)
Li, Weihang	Poster #1109: 7/30 @ 10:30-11:30am	An Integrated Processing and Interference Quality-Check Tool for Drone-Collected Synthetic Aperture Radar Data	Ryan Wu [†] (Engineering)
Li, Yun	Poster #1219: 7/30 @ 12:00-1:00pm	EMT-Mediated Regulation of Exogenous Fatty Acid Uptake in Breast Cancer Cells	Arianis Loraine Hernández Peña [†] (PWL)
Liao, Chao-Jan	Poster #1019: 7/30 @ 10:30-11:30am	Mapping the RLCK Interactome in Tomato Immunity Using Proteomics	Bella Turnbull [†] (PWL)
Lien, Yi	Poster #1218: 7/30 @ 12:00-1:00pm	Characterizing the Role of Mouse Granzyme A in LPS-Mediated Inflammation	Anika Vaz [†] (Purdue University) Samantha Sarah Lin [‡] (Pharmacy JMHC)
Lien, Yi	Talk #7053: 7/30 @ 1:40pm	Thermosensitive Histidine Dehydrogenase (HisD) Mutants in Salmonella typhimurium	Olivia Nicole Safranek [†] (Science) Ruoqin Rachel Yang [*] (Science)
Lin, Guang	Poster #1406: 7/30 @ 1:30-2:30pm	Using UK Biobank Data to Investigate the Link Between Type 2 Diabetes and Alzheimer's Disease	Zoe Amerman [†] (Engineering)
Lin, Sen	Poster #1010: 7/30 @ 10:30-11:30am	Establishing a High-Efficiency Soybean Transformation System Using Agrobacterium rhizogenes-Induced Hairy Roots	Madison Birgy [†] (PWL)
Little, Dianne	Poster #1302: 7/30 @ 12:00-1:00pm	Impact of Chronic Variable Stress on Neurobehavioral Function Following DMM Surgery in Mice.	Xander L Tuttle [†] (Vet Med)
Liu, Hongyang	Poster #1246: 7/30 @ 12:00-1:00pm	An Empirical Study of LLM-Driven Microwave Circuit Design	Elijah Goodman [†] (Rochester Institute of Technology)
Liu, Leyu	Poster #1264: 7/30 @ 12:00-1:00pm	Tuning Metal Identity and Nitrogen Coordination in M-N-C Substrates for Enhanced Pt Nanoparticle Stability	Guanting Li [†] (Science)
Liu, Leyu	Poster #1415: 7/30 @ 1:30-2:30pm	Build Large AI-Ready Database for Interface Science	Wen Xun Chua [†] (Science)
liu, Miaoyuan	Talk #7085: 7/30 @ 3:00pm	Bumblebee, a Foundation Model for Particle Physics Discovery	Cara Suh [†] (Science)
Liu, Mingqing	Poster #1217: 7/30 @ 12:00-1:00pm	Computational and Experimental Analysis of SAH Hydrolase inhibition by Adenosine Analogs	Emily Truong [†] (PWL)
Liu, Peiran	Poster #1059: 7/30 @ 10:30-11:30am	Analysis of Closed-Loop Communication to Predict Non-Technical Skills Amongst Surgical Teams in Operating Rooms	Kelcie Edrea T Estrera [†] (Science) Yizheng Jiang [‡] (Engineering)

Name	Presentation	Title	Students
Liu, Shufan	Poster #1005: 7/30 @ 10:30-11:30am	Development of a Machine Learning Model to Assess Indoor Air Quality Based on Measured Particulate Matter Levels	Julia Gloss† (Rochester Institute of Technology)
Liu, Su-Ling	Poster #1037: 7/30 @ 10:30-11:30am	Heterologous Expression and Functional Characterization of Arabidopsis thaliana AGO1 and AGO4 in Gene Silencing	Austin Robert Tanabe† (Agriculture Engineering JMHC)
Liu, Xiaoyu	Talk #9022: 7/27-7/31 virtually	Evaluating Bayesian Optimization in Mixed-Variable Infrastructure Selection	Taylor Scott Vicente† (PWL)
Liu, Xing	Poster #1031: 7/30 @ 10:30-11:30am	Comparison of CAND1 and CAND2 Dissociation Rates from CUL2	Seojin Paek† (Agriculture)
Liu, Xing	Poster #1210: 7/30 @ 12:00-1:00pm	Identification of Regulators of RBX1 Turnover in the Absence of Glomulin	Kyannet Rodriguez-Cruz† (Agriculture)
Llacsahuanga Allcca, Andres Eduardo	Poster #1267: 7/30 @ 12:00-1:00pm	Orientation Dependent Excitonic Coupling and Purcell Enhancement in MoOCl ₂ -TMDC Heterostructures	Ryan Y Manley† (Engineering)
Llacsahuanga Allcca, Andres Eduardo	Poster #1435: 7/30 @ 1:30-2:30pm	Angle-Dependent Superconducting Transport in hBN-Encapsulated 2M-WS ₂ at cryogenic Temperatures	Sri Krishna Teja Mannava† (Science)
Lobo, Denver John	Poster #1452: 7/30 @ 1:30-2:30pm	The Emerging Role of Agentic AI in Transportation and Logistics	Reyam Roumeih† (Engineering)
Lokhande, Monish Mahesh	Poster #1052: 7/30 @ 10:30-11:30am	A Speech Command Interface and Sensing Pipeline for Agricultural Vehicles	Sidharth Bhatt†
Lokhande, Monish Mahesh	Poster #1075: 7/30 @ 10:30-11:30am	Functionalization of DNA tetrahedra for in vitro testing of siRNA delivery across the Blood-Brain Barrier	Anna Louise Kokosa† (Science JMHC) Megan Webb‡ (Agriculture)
Lokhande, Monish Mahesh	Poster #1083: 7/30 @ 10:30-11:30am	Exploring the Existence of Atmospheric Blocking's Precursor Patterns with Physics-Informed Explainable AI	Zhixin Li† (Science)
Lokhande, Monish Mahesh	Poster #1090: 7/30 @ 10:30-11:30am	Bringing Low-Light 3D Reconstruction Online: Toward Real-Time Visual SLAM for Drones	Srinath Eswaran Neelamagam† (Science)
Lokhande, Monish Mahesh	Poster #1099: 7/30 @ 10:30-11:30am	A Color-Sensing Tactile Sensor for Combined Shear and Normal Force Detection in Robotic Applications	Paul Shannon Slack† (Engineering Science)
Lokhande, Monish Mahesh	Poster #1252: 7/30 @ 12:00-1:00pm	Evaluating Grid Collimator Spatial Configurations to Maximize Bystander Effects in Spatially Fractionated Radiation Therapy	Kenli Hetrick† (HHS) Pia Kapur‡ (Centers & Institutes)
Lokhande, Monish Mahesh	Poster #1253: 7/30 @ 12:00-1:00pm	Injectable Alginate–Chitosan Hydrogel: Fabrication and Characterization	Habin Jang† (Agriculture Engineering) Maxwell J Gootee‡ (HHS Liberal Arts JMHC)
Lokhande, Monish Mahesh	Poster #1256: 7/30 @ 12:00-1:00pm	Agricultural-Vehicle-Based Radio-Frequency Readout System for Underground Biodegradable Sensors and Batteries	Pataraphol Keeraswangporn† (Engineering)
Lokhande, Monish Mahesh	Poster #1261: 7/30 @ 12:00-1:00pm	From outputs to confidence: Quantifying trust in science agents	Caleb Eunho Lee† (Science)
Lokhande, Monish Mahesh	Poster #1264: 7/30 @ 12:00-1:00pm	Tuning Metal Identity and Nitrogen Coordination in M-N-C Substrates for Enhanced Pt Nanoparticle Stability	Guanting Li† (Science)
Lokhande, Monish Mahesh	Poster #1270: 7/30 @ 12:00-1:00pm	AutoMD: An LLM-Based Agent System for Automating Molecular Dynamics Workflows	Nathan Nguyen† (Engineering Science)

Name	Presentation	Title	Students
Lokhande, Monish Mahesh	Poster #1271: 7/30 @ 12:00-1:00pm	Optimizing DNA Tetrahedron Assembly for Blood-Brain Barrier Drug Delivery	Rebecca Rose Phelan [†] (Engineering) Nasser H Sanwari* (Engineering Science)
Lokhande, Monish Mahesh	Poster #1278: 7/30 @ 12:00-1:00pm	Accelerating Scientific Literature Review with Agentic AI: Multi-Agent Knowledge Distillation and Plot Digitization	Fang Rui Shen [†] (Science)
Lokhande, Monish Mahesh	Poster #1282: 7/30 @ 12:00-1:00pm	Modeling Vanadium Dioxide for Neuromorphic Computing	Vincent Stavig [†] (Science)
Lokhande, Monish Mahesh	Poster #1286: 7/30 @ 12:00-1:00pm	Predicting Intrinsic Clearance Through Quantum-Informed Embedding of Molecular Surface in Machine Learning	Alissa Weigand [†] (Pharmacy)
Lokhande, Monish Mahesh	Poster #1412: 7/30 @ 1:30-2:30pm	HEROIC: Heterogeneous Robot Intelligence through Conceptual Communication and Gradient-based Control	Mihir S Chauhan [†] (Science) Aarav Jain [‡] Addison Francis Zucek [‡] (Science) Manmeet Singh Dang [‡] (Science)
Lokhande, Monish Mahesh	Poster #1418: 7/30 @ 1:30-2:30pm	Development and Characterization of a 3D DIPG Spheroid Model to Study Tumor-Immune Interactions in the Brain	Rohan Joseph Eapen [†] (Pharmacy)
Lokhande, Monish Mahesh	Poster #1422: 7/30 @ 1:30-2:30pm	Prebiotic Reaction Network Characterization for Ammonia-free Alanine Formation on Titan.	Rinat Ilyussizov [†] (Science)
Lokhande, Monish Mahesh	Poster #1425: 7/30 @ 1:30-2:30pm	Development of an Endothelial Microfluidic Chip Model as a Platform for Drug Delivery Studies in Cancer	Delfina B Jackson [†] (Engineering)
Lokhande, Monish Mahesh	Poster #1429: 7/30 @ 1:30-2:30pm	Pressure and Force Density Distributions Caused by Electromagnetic Radiation	Adam Lewis Kipp [†] (Engineering)
Lokhande, Monish Mahesh	Poster #1434: 7/30 @ 1:30-2:30pm	Spatial-Light-Modulator-Generated Optical Tweezer Arrays for Neutral Atom Nanophotonics	Khanh Mai [†] (Science)
Lokhande, Monish Mahesh	Poster #1456: 7/30 @ 1:30-2:30pm	Joint Registration and Pathology Detection in CT via Diffeomorphic Neural Optimal Transport	Ziqi Shen [†] (Engineering)
Lokhande, Monish Mahesh	Talk #7041: 7/30 @ 12:40pm	Photoelastic Gel Pad for Vision-Based Tactile Sensing	Samuel Timothy Bibeau [†] (Engineering)
Long, Jiaxin	Poster #1017: 7/30 @ 10:30-11:30am	Investigating the Role of HTA8 in PKL-Dependent Chromatin Regulation and Development in Arabidopsis Thaliana	Lila Rivera [†] (PWL) Blaine Andrew Wagner* (Agriculture JMHC)
Long, Jiaxin	Poster #1021: 7/30 @ 10:30-11:30am	Functional analysis of putative chromatin assembly factors in Arabidopsis	Duncan Patrick Blank [†] (Agriculture)
Lopez, Jonathan	Talk #7061: 7/30 @ 2:20pm	A Looking Glass Into the Future of Disease in a Warmer World: Susceptibility to Metschnikowia bicuspidata Infection in Daphni	Ana Martinez [†] (Science)
Lovinger, Gabriel Jordan	Poster #1086: 7/30 @ 10:30-11:30am	Synthesis of novel ligands to improve reactivity and selectivity of organometallic reactions through electric field catalysis	Sophia D Madrazo [†] (Science)
Low-Nam, Shalini T	Talk #7029: 7/30 @ 11:40am	Molecular thresholds for activation and fratricide by anti-B7-H3 CAR T cells	Nicole Shashurin [†] (Science)
Lu, Junyuan	Poster #1234: 7/30 @ 12:00-1:00pm	Adhesive Interaction between Chitosan Microgel and Polystyrene Plastic Particle by Optical Tweezers	Pin-Yu Chen [†] (Engineering Science)
Lu, Junyuan	Poster #1407: 7/30 @ 1:30-2:30pm	Optically Reconfigurable Physically Unclonable Functions	Ruhaan Batta [†] (Engineering Polytechnic)

Students' Role Notations: [†]Presenting Author, [‡]Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Lu, Yilin	Poster #1415: 7/30 @ 1:30-2:30pm	Build Large AI-Ready Database for Interface Science	Wen Xun Chua [†] (Science)
Lucietto, Anne M	Talk #7057: 7/30 @ 1:00pm	Engineering Technology: How Do Entry Pathways Relate to Preparation, Satisfaction, and Career Confidence?	Japteg Singh Bamrah [†] (Polytechnic) Charis Knoerr [†] (PWL) William K Boyer [‡] (Polytechnic) Martha Cherop Boss [‡] (Polytechnic)
Lumas, LJ	Talk #9000: 7/27-7/31 virtually	Rosen Center for Advanced Computing Anvil REU Project #3- Elastic Cloud Scheduling for Anvil	Angello Bravo [†] (PWL) Shelby Stall [†] (PWL)
Lumas, LJ	Talk #9003: 7/27-7/31 virtually	Rosen Center for Advanced Computing Anvil REU Project #3- Elastic Cloud Scheduling for Anvil	Shelby Stall [†] (PWL) Angello Bravo [†] (PWL)
Lyon, Angeline M	Poster #1321: 7/30 @ 12:00-1:00pm	Investigating If The D to Y Mutation Relived Auto Inhibition By The Distal C Terminal Domain in Phospholipase C β 4 Using BRET	Gregorio Romagnoli Oliveira [†] (Science)
Ma, Jianxin	Poster #1010: 7/30 @ 10:30-11:30am	Establishing a High-Efficiency Soybean Transformation System Using Agrobacterium rhizogenes-Induced Hairy Roots	Madison Birgy [†] (PWL)
Ma, Jianxin	Poster #1045: 7/30 @ 10:30-11:30am	Modulating MicroRNA Expression to Elucidate Their Roles in Soybean Nodulation Using a Hairy Root System	Makenna Wevick [†] (Unknown)
Maan, Pranshu	Poster #1239: 7/30 @ 12:00-1:00pm	Statistical Methods for Predicting Instability in Quantum Emitters	Abhigyan Doshi [†] (Engineering)
Maan, Pranshu	Poster #1469: 7/30 @ 1:30-2:30pm	Implement BiLSTM on FPGA for Anticipating Decoherence	Caleb Enos Zhang [†] (Engineering JMHC) Sarthak Tandon [‡] (Engineering)
Maan, Pranshu	Talk #7021: 7/30 @ 11:00am	Neural Network Predictors for Learning General Quantum Systems Environments	Chee Ying Tay [†] (Engineering Science)
Macatangay, Jalen Riley	Poster #1104: 7/30 @ 10:30-11:30am	The Impact of Colliding Deflagration Waves	Likhita Tinga [†] (Engineering)
MacInnis, Emilie Mae	Poster #1316: 7/30 @ 12:00-1:00pm	The Hands Who Foster: Demographics of Animal Foster Volunteers	A'Mya Murray Coleman [†] (HHS)
Madan, Ishaan	Poster #1422: 7/30 @ 1:30-2:30pm	Prebiotic Reaction Network Characterization for Ammonia-free Alanine Formation on Titan.	Rinat Ilyussizov [†] (Science)
Makin, Joseph Gerard	Poster #1516: 7/30 @ 1:30-2:30pm	Visual Representations of Speech Decoding	Muhammad F Shaaban [†] (Engineering)
Mallery, Eileen L	Poster #1058: 7/30 @ 10:30-11:30am	A Semi-Automated Pipeline for Generating Finite Element Models of Plant Cells from Confocal Microscopy	Guilherme de Souza Correa [†] (Engineering)
Mann, Marcus	Poster #1046: 7/30 @ 10:30-11:30am	Exposure to Online Content and the Perceived Violence of Religious Outgroups	Eunice Zhang [†] (Wellesley College) Corey Peter Resweber* (Liberal Arts)
Mannodi Kanakkithodi, Arun Kumar	Talk #7087: 7/30 @ 3:40pm	Structural and Electronic Investigation of ACIGS Chalcopyrites using Density Functional Theory	Yutika Vasudeo Sawant [†] (Science JMHC)
Mansson, Jan-Anders E	Poster #1063: 7/30 @ 10:30-11:30am	Development of a Comfortable, Breathable, Cut-Resistant Hockey Neck Guard	Nicolas Gomez Velasquez [†] (Engineering) Cole J Burnett [‡] (Engineering)
Mansson, Jan-Anders E	Poster #1231: 7/30 @ 12:00-1:00pm	Development of a Comfortable, Wearable, Cut-Resistant Hockey Neck Guard	Cole J Burnett [†] (Engineering) Nicolas Gomez Velasquez [‡] (Engineering)
Mansson, Jan-Anders E	Talk #7002: 7/30 @ 10:40am	Event and Passing Detection for Football (Soccer)	Boyang Zhang [†] (Engineering) Pranav Tallapaka [‡] (Engineering)

Name	Presentation	Title	Students
Mansson, Jan-Anders E	Talk #7045: 7/30 @ 1:00pm	Enhancing Tennis Racket Feel Through Multi-Material Additive Manufacturing of Handle Pallets	Drake R Augustine† (Engineering) Kyle Landon Friedrich‡ (Engineering) Megan Rose Magee‡ (Engineering)
Mansson, Jan-Anders E	Talk #7076: 7/30 @ 3:20pm	Movement Pattern Analysis in Football (Soccer)	Pranav Tallapaka† (Engineering) Boyang Zhang‡ (Engineering)
Mantel, Samuel Joseph	Poster #1013: 7/30 @ 10:30-11:30am	Investigating the phenotypic and genetic basis of plagiotropy at high elevation in tropical alpine Arabidopsis thaliana	Hannah Flis† (PWL)
Marconnet, Amy M	Poster #1475: 7/30 @ 1:30-2:30pm	Measuring degradation of Thermal Interface Materials	Richard Zhixiong Li† (Engineering)
Marinova, Miroslava Marinova	Poster #1306: 7/30 @ 12:00-1:00pm	Bridging Electrical and Optical Characterization of Gallium-Doped ZnO for Tailorable Epsilon-Near-Zero Photonics	Saishri Bagde† (Engineering) Muhammad Mahdi Marzan‡ Geetika Chitturi‡ (Engineering JMHC)
Marjan, Tuba	Poster #1056: 7/30 @ 10:30-11:30am	Modulation of Mechanical, Injectable and Degradation Characteristics of MMP Cleavable Microgels to Advance Tissue Repair	Daniel Chi Hsien Chen Sandi† (Engineering)
Marjan, Tuba	Poster #1290: 7/30 @ 12:00-1:00pm	Fabrication and Characterization of Injectable and Microporous Hydrogels for Potential Applications in Wound Healing	Francine Yu He Zhang† (Engineering)
Martin, Baptiste Tongasoa	Poster #1226: 7/30 @ 12:00-1:00pm	Radiation Cascade Studies in GST-C Using Molecular Dynamics	Agustin Abt† (Engineering) Aryan Rauniyar‡ (Engineering)
Martin, Baptiste Tongasoa	Poster #1295: 7/30 @ 12:00-1:00pm	Radiation Cascade Simulations in GST-C Using Molecular Dynamics	Aryan Rauniyar† (Engineering) Agustin Abt† (Engineering)
Martin, Galen	Poster #1014: 7/30 @ 10:30-11:30am	Silencing of Mutator Element in Maize	Kit Hill† (PWL)
Martinez, Carlos J	Talk #7039: 7/30 @ 12:00pm	Controlled Assembly of Amphiphilic Janus Particles in Polymer Matrix for Novel 3D Printing Applications In Space	Kevin Santiago Pineda Rojas† (PWL) Aryan Dayal‡ (Engineering) Nicholas Joseph Ostendorf‡ (Engineering)
Martinez, Jhon Edison	Poster #1091: 7/30 @ 10:30-11:30am	Investigating Acute Responses to Mild Blast Traumatic Brain Injury in an in vitro Human Tau-Expressing Neuronal Model	Natalia Nino Cocoma† (Vet Med)
Martinez, Jhon Edison	Poster #1124: 7/30 @ 10:30-11:30am	Differential Vulnerability of Excitatory and Inhibitory Synapses to Acrolein-Mediated Oxidative Damage	Maheen Syed† (Engineering) John Pao Miles* (Liberal Arts)
Martinez, Ramses	Talk #7068: 7/30 @ 2:40pm	A Conductive Polymer-Based Approach to Soft Tactile Sensing for Robotic Manipulation	Jeronimo Contreras Castaneda† (Engineering)
Martinez-Guo, Zherui	Poster #1450: 7/30 @ 1:30-2:30pm	Two-Way Coupled Particle-Air Flow Simulation for Improved Erosion Prediction in Aircraft Engine Compressors	Daniel J V Pike† (Engineering) Sai Kasturi Kamila* (Engineering JMHC)
Martinez-Guo, Zherui	Poster #1501: 7/30 @ 1:30-2:30pm	Automated Image Correlation Analysis of Particle Impact for Solid Particle Erosion	Sai Kasturi Kamila† (Engineering JMHC) Melody Christine Yang† (Engineering) Daniel J V Pike* (Engineering)
Masdari, Mobina	Poster #1514: 7/30 @ 1:30-2:30pm	Low pH Exposure Alters Mediator Response in Poly(o-phenylenediamine)-Based Molecularly Imprinted Polymer Sensors	Amanda Rodriguez-Gonzalez† (Engineering) Keeley Vonne Farmer* (Science) Ali Jo Crouse* (Science)

Name	Presentation	Title	Students
Mashhadian, Ali	Poster #1278: 7/30 @ 12:00-1:00pm	Accelerating Scientific Literature Review with Agentic AI: Multi-Agent Knowledge Distillation and Plot Digitization	Fang Rui Shent [†] (Science)
Matosevic, Sandro	Poster #1418: 7/30 @ 1:30-2:30pm	Development and Characterization of a 3D DIPG Spheroid Model to Study Tumor-Immune Interactions in the Brain	Rohan Joseph Eapent [†] (Pharmacy)
Mattoo, Seema	Poster #1502: 7/30 @ 1:30-2:30pm	Uncovering the Role of the scs Pilus Within the Complex Surface Architecture of Stenotrophomonas maltophilia	Ian Kim [†] (DSB JMHC)
McAdams, Jennifer L	Poster #1118: 7/30 @ 10:30-11:30am	Exploratory Analysis of Plasma Lipid Profiles in Largemouth Bass Across a PFAS Exposure Gradient	Maria Jose Suarez Monroy [†] (PWL)
McCain, Robyn R	Poster #1302: 7/30 @ 12:00-1:00pm	Impact of Chronic Variable Stress on Neurobehavioral Function Following DMM Surgery in Mice.	Xander L Tuttle [†] (Vet Med)
McClain, Monique Suzanne	Poster #1121: 7/30 @ 10:30-11:30am	Effect of UV Intensity and Particle Type on the Cure Depth of Photocurable Molding Powders	Kym-Danny Dyah Francis [†] (Engineering)
McDaniel, Zachary Allen	Poster #1272: 7/30 @ 12:00-1:00pm	An Experimental Study on Ice Droplet Breakup Within the Purdue 3-Inch Shock Tube	Caleb Jonathan Radtke [†] (Engineering) Alex Perry [†] (Engineering)
McDaniel, Zachary Allen	Talk #7016: 7/30 @ 11:20am	Ice-Droplet Interaction with Supersonic Shock Waves	Alex Perry [†] (Engineering) Caleb Jonathan Radtke [†] (Engineering)
McGovern, Sarah E.	Poster #1203: 7/30 @ 12:00-1:00pm	Developing a toolkit for the in vivo monitoring of circadian rhythmicity in Drosophila Melanogaster	Alan Cortes [†] (Agriculture)
Means, Kira K	Poster #1044: 7/30 @ 10:30-11:30am	Combating Anti-Transgender Misinformation with Psychological Interventions	Dannah Rose Urban [†] (PWL)
Mehra, Shaiv	Poster #1325: 7/30 @ 12:00-1:00pm	Assessment of Grasping Pipelines for Assistive Robotic Manipulation	Jacob Junjie Zhang [†]
Mehra, Shaiv	Poster #1513: 7/30 @ 1:30-2:30pm	Experiential Learning: Developing Custom Assistive Technology Through Participatory Design and 3D-Printing	Muneera Shoaib Rasheed [†] (Engineering) Korphiena Kimona Stephen [‡] (Engineering)
Mehra, Shaiv	Poster #1519: 7/30 @ 1:30-2:30pm	ADAPT-E: Adaptive Donning and Attachment Platform Technology for Eating Utensils	Korphiena Kimona Stephen [†] (Engineering) Muneera Shoaib Rasheed [‡] (Engineering)
Mehta, Shubh Parag	Poster #1255: 7/30 @ 12:00-1:00pm	Exploration of Finetuning Methods for Deep Learning-Based Aortic Root Segmentation on Echocardiography	Julia Kang [†] (Engineering Science) Julian Vuong [‡] (Engineering) Ojas Chaturvedi [‡] (Science JMHC)
Mehta, Shubh Parag	Poster #1401: 7/30 @ 1:30-2:30pm	Ultrasound Assessment of BAPN-Induced Thoracic Aortic Aneurysm Progression in Juvenile Mice	Kayla A Fischer [†] (Centers & Institutes) Eesha Khalid Faruqi [†] (HHS) Julian Vuong [‡] (Engineering)
Mehta, Shubh Parag	Talk #7010: 7/30 @ 10:20am	Beyond Diameter: Biomechanical Phenotyping of Pediatric Aortic Root Dilatation Across Etiologies	Julian Vuong [†] (Engineering) Julia Kang [‡] (Engineering Science)
Mehta, Shubh Parag	Talk #7044: 7/30 @ 12:40pm	Comparison of scanning electron microscopy and histological observations of human aorta tissue	Bea Olivia Cabot [†] (HHS Science)
Meister, Ryan Michael	Poster #1274: 7/30 @ 12:00-1:00pm	Using μ CT to Visualize Bone Degradation Caused by PTOA	Amrita Rani Raparti [†] (Engineering)

Name	Presentation	Title	Students
Meka, Sai Krishna	Poster #1060: 7/30 @ 10:30-11:30am	A Real-Time Digital Twin Framework for Temperature Monitoring and Feedback Control in Automated Fiber Placement	Hongsen Fang [†] (Engineering) Rohan Kelkar [*] (Engineering)
Meng, Yue	Poster #1248: 7/30 @ 12:00-1:00pm	Using SAM2 for Floe Size Distribution Analysis	Caleb Carr Hamilton [†] (Engineering)
Mengiste, Tesfaye D	Poster #1019: 7/30 @ 10:30-11:30am	Mapping the RLCK Interactome in Tomato Immunity Using Proteomics	Bella Turnbull [†] (PWL)
Mertens, Nicole Elizabeth	Poster #1056: 7/30 @ 10:30-11:30am	Modulation of Mechanical, Injectable and Degradation Characteristics of MMP Cleavable Microgels to Advance Tissue Repair	Daniel Chi Hsien Chen Sandi [†] (Engineering)
Mertens, Nicole Elizabeth	Poster #1290: 7/30 @ 12:00-1:00pm	Fabrication and Characterization of Injectable and Microporous Hydrogels for Potential Applications in Wound Healing	Francine Yu He Zhang [†] (Engineering)
Mesecar, Andrew D	Poster #1207: 7/30 @ 12:00-1:00pm	Targeting ASC Filament Formation as a Therapeutic Strategy for Alzheimer's Disease	Erwin Kingston [†] (Agriculture)
Metskas, Lauren Ann	Talk #7014: 7/30 @ 10:40am	High-Resolution Cellular STA using Ribosome Alignment	Anna Boeva [†] (PWL)
Metzger, Brian	Poster #1496: 7/30 @ 1:30-2:30pm	The Relative Roles of Genetic Distance and Chromosomal Rearrangements on Reproductive Isolation	Michael David Gardner [†] (Science)
Metzger, Brian	Poster #1523: 7/30 @ 1:30-2:30pm	Tracing Independent Origins of Tyrosine Kinase Activity in the NEK Kinase Family	Alexander Webb [†] (Science)
Michalski, Greg M	Poster #1079: 7/30 @ 10:30-11:30am	Air Quality Modeling: Incorporating Stable Isotopes into the US-EPA CMAQ Air Quality Model	Sooji Lee [†] (Science) Samin Sanjana [‡] (Science)
Mickelbart, Michael V	Poster #1011: 7/30 @ 10:30-11:30am	Using Hyperspectral Reflectance Models to Estimate Turgor Loss Point in Diverse Maize Germplasm	Michael Blados [†] (PWL)
Milisavljevic, Danny	Poster #1245: 7/30 @ 12:00-1:00pm	Scaling Real-Time Inference and Automated Anomaly Detection for 250+ Type II Supernovae	Medhansh Garg [†] (Science)
Miller, Monica	Talk #7036: 7/30 @ 12:00pm	Review of Current Nursing Practice Regarding Phosphate Replacement Therapy Administration in an Intensive Care Environment	Caihla Timbang [†] (Pharmacy JMHC)
Miller, Monica	Talk #9007: 7/27-7/31 virtually	A Medication Safety Analysis of Delayed Critical Medication Administration	Peyton Rose Collier [†] (Pharmacy)
Miller, Monica	Talk #9014: 7/27-7/31 virtually	Anthracycline Maximum Lifetime Doses and Cardiotoxicity Risk Assessment Tools	Jessica Anna Malecki [†] (Pharmacy)
Mills, Stephen Craig	Poster #1281: 7/30 @ 12:00-1:00pm	Contribution of roots vs shoots to adaptive cold acclimation in Arabidopsis thaliana	Colleen Ryan Squier [†] (Agriculture) Stephanie Tirado Rojas [*] (Agriculture)
Miranda Rodriguez, Juliana	Poster #1012: 7/30 @ 10:30-11:30am	Downregulation of Sucrose Transporter (SUT1) in Tobacco Leaves	Allison Del Sarto [†] (PWL)
Moghaddam, Mahdi	Poster #1251: 7/30 @ 12:00-1:00pm	Beyond Rest and Task: Information-Theoretic Measures of Brain Reconfiguration as Biomarkers of Familial Risk for Alcohol Use	Ana Maria Hernandez Conde [†] (Engineering)
Mohammadi, Saeed	Talk #7042: 7/30 @ 12:00pm	A Non-Invasive Acoustic Sensing System for Sleep Bruxism Screening	Aaruni Singh [†] (Engineering)
Mohammadi, Shahla	Poster #1011: 7/30 @ 10:30-11:30am	Using Hyperspectral Reflectance Models to Estimate Turgor Loss Point in Diverse Maize Germplasm	Michael Blados [†] (PWL)

Students' Role Notations: [†]Presenting Author, [‡]Contributing Author, ^{*}Acknowledgment

Name	Presentation	Title	Students
Mohammed, Ahmed Abdelaleem Abdelhafeez	Poster #1311: 7/30 @ 12:00-1:00pm	Novel Therapeutic Advancements Against Enterococcal Infection	Olivia Lucille Kimmick† (Science) Alessia Lin Heiser† (Science)
Moline, Abigail Kathleen	Poster #1314: 7/30 @ 12:00-1:00pm	A systematic review of EEG research on error processing in schizophrenia	Seona James Mathew† (PWL) Lorelei Estella ro Fletcher† (JMHC) Morgan Denae Furlow† (Science)
Mondal, Sudipta	Poster #1077: 7/30 @ 10:30-11:30am	Creating Connected Pathways in Iron: Engineering Interconnected Porous Networks Through Magnesiothermic Reduction	Emily Danielle Kushner† (Engineering) Helen Sophia Brzozowski* (Engineering)
Mondal, Sudipta	Poster #1408: 7/30 @ 1:30-2:30pm	Nickel Powder and Foil with Reaction-Synthesized Porous Surfaces	Helen Sophia Brzozowski† (Engineering) Emily Danielle Kushner* (Engineering)
Mondul, Jane Ann	Poster #1430: 7/30 @ 1:30-2:30pm	The Lateral Olivocochlear System and its Plasticity Following Noise Exposure	Hrshikesh Murli Krishna† (HHS Science)
Montalvo Gonzalez, Luis Gabriel	Talk #9012: 7/27-7/31 virtually	Vancomycin Functionalized DNA Hydrogel on Titanium Surfaces Against Implant Infections	Ikechi M Johnson† (Engineering) Lara Teresa Muniz‡ (Engineering)
Morgan-Lange, Xavier I	Poster #1438: 7/30 @ 1:30-2:30pm	Producing Rocket Fuel on Mars: A Thermodynamic Analysis of Separating Perchlorate Salts from Martian Brine	Sahda Mohammadu Haroon† (Engineering) Isaac Parks* (Engineering) Tejas Pandit* Princess Gloria Onyinyechi Okoli* (Engineering)
Morgan-Lange, Xavier I	Poster #1447: 7/30 @ 1:30-2:30pm	Converting Martian Soil to Rocket Fuel	Isaac Parks† (Engineering) Sahda Mohammadu Haroon* (Engineering) Princess Gloria Onyinyechi Okoli* (Engineering) Tejas Pandit*
Morgenroth, Thekla	Poster #1044: 7/30 @ 10:30-11:30am	Combating Anti-Transgender Misinformation with Psychological Interventions	Dannah Rose Urban† (PWL)
Morris, Aaron B	Poster #1428: 7/30 @ 1:30-2:30pm	Experimental validation of a Coupled Eulerian-Lagrangian model to predict granular discharge in industrial hoppers.	Abel Paul Sholey Kallely† (Engineering)
Moser, Abigayle Elaine	Poster #1272: 7/30 @ 12:00-1:00pm	An Experimental Study on Ice Droplet Breakup Within the Purdue 3-Inch Shock Tube	Caleb Jonathan Radtke† (Engineering) Alex Perry† (Engineering)
Moser, Abigayle Elaine	Talk #7016: 7/30 @ 11:20am	Ice-Droplet Interaction with Supersonic Shock Waves	Alex Perry† (Engineering) Caleb Jonathan Radtke† (Engineering)
Moy, Chandler J	Poster #1272: 7/30 @ 12:00-1:00pm	An Experimental Study on Ice Droplet Breakup Within the Purdue 3-Inch Shock Tube	Caleb Jonathan Radtke† (Engineering) Alex Perry† (Engineering)
Moy, Chandler J	Talk #7016: 7/30 @ 11:20am	Ice-Droplet Interaction with Supersonic Shock Waves	Alex Perry† (Engineering) Caleb Jonathan Radtke† (Engineering)
Mufti, Shatha Jameel	Poster #1124: 7/30 @ 10:30-11:30am	Differential Vulnerability of Excitatory and Inhibitory Synapses to Acrolein-Mediated Oxidative Damage	Maheen Syed† (Engineering) John Pao Miles* (Liberal Arts)
Mukherjee, Partha P	Poster #1103: 7/30 @ 10:30-11:30am	Role of Moisture on the Thermal Stability of Sodium-Ion Batteries	Abhaya Sundar† (Engineering Science)
Munde, Ram Eknath	Talk #7000: 7/30 @ 10:00am	Nanoscale Thermal Transport Mapping and Interfacial Constraints of Individual Layers for Titanium Carbide (Ti3C2Tx) MXene	Johanna Walther† (Engineering)

Name	Presentation	Title	Students
Munoz-Gomez, Sergio	Poster #1016: 7/30 @ 10:30-11:30am	Tracking algal endosymbiont loss in Paramecium bursaria after cycloheximide treatment	Owen Ososki† (Purdue University)
Munoz-Gomez, Sergio	Poster #1236: 7/30 @ 12:00-1:00pm	Resource Allocation to Mitochondria at Slow Growth Rates	Allison Clark† (Science)
Murray-Kolb, Laura Elaine	Poster #1237: 7/30 @ 12:00-1:00pm	Iron Status, Cognitive Function, and Quality of Life in Perimenopausal Women: Baseline Findings from an Intervention Study	William Thomas Covington†
Murugesan, Sadha Sivam	Poster #1442: 7/30 @ 1:30-2:30pm	A Comparative Evaluation of Machine Learning Models for Heat Conduction Problems	Malavika Nair† (Engineering)
Mydy, Lisa S.	Poster #1032: 7/30 @ 10:30-11:30am	Structural Insights into a Plant-Derived Antihypertensive Cyclic Peptide	Verasha Pomart† (Agriculture)
Naderi Beni, Ali	Talk #7011: 7/30 @ 10:40am	Pulse-Flow Reverse Osmosis	Taher Mustafa Mukadam† (Engineering) Mackenzie Hathaway* (Engineering JMHC)
Naji, Hassan	Poster #1308: 7/30 @ 12:00-1:00pm	Body Mass Index and Clinical Outcomes of Elderly Patients with Acute Myocardial Infarction	Thomas James Haack† (PNW)
Nakate, Prasheel Shivanand	Poster #1270: 7/30 @ 12:00-1:00pm	AutoMD: An LLM-Based Agent System for Automating Molecular Dynamics Workflows	Nathan Nguyen† (Engineering Science)
Nally, Everett John	Talk #7065: 7/30 @ 2:40pm	Comparison of Neutron Detectors and Evaluation of Shielding Materials for Space Microelectronics	Jack G Darby† (Engineering)
Naman, Anugunj	Poster #1052: 7/30 @ 10:30-11:30am	A Speech Command Interface and Sensing Pipeline for Agricultural Vehicles	Sidharth Bhatt†
Narra, Niharika	Poster #1229: 7/30 @ 12:00-1:00pm	2D and 4D Ultrasound Assessment of Ejection Fraction in an Empagliflozin-Treated Murine Model of Duchenne Muscular Dystrophy	Olivia Bell† (Engineering) Aleksh Pratish Shah‡ (Engineering) Xavier Thomas Cedric Tribout‡ (PWL)
Narula, Dipak	Poster #1117: 7/30 @ 10:30-11:30am	COMMERCIALIZING LIPIDOMICS FOR BEEF QUALITY ASSESSMENT Understanding market needs, stakeholder and adoption pathways	Ana Maria Cifuentes Pinilla† (PWL)
Natu, Amogh	Talk #7001: 7/30 @ 10:20am	Atomization of Fuel in the Pre-vaporization Tube of a Small-Scale Annular Gas Turbine Combustor	Levi Hammerbeck† (Engineering)
Neira Garcia, Jorge Enrique	Poster #1051: 7/30 @ 10:30-11:30am	Identifying Fatigue Indicators in Cyclists' Bodies Over Time: A Kinematic and Subjective Multi-Modal Pilot Study	David Felipe Arguello Patino† (Engineering) Adam James Sullivan‡ (Engineering)
Neira Garcia, Jorge Enrique	Poster #1063: 7/30 @ 10:30-11:30am	Development of a Comfortable, Breathable, Cut-Resistant Hockey Neck Guard	Nicolas Gomez Velasquez† (Engineering) Cole J Burnett‡ (Engineering)
Neira Garcia, Jorge Enrique	Poster #1069: 7/30 @ 10:30-11:30am	Evaluation of platinum-tin and platinum-copper alloy catalysts for chemoselective hydrogen addition.	Daniel Esteban Jara Moreno† (Science)
Neira Garcia, Jorge Enrique	Poster #1091: 7/30 @ 10:30-11:30am	Investigating Acute Responses to Mild Blast Traumatic Brain Injury in an in vitro Human Tau-Expressing Neuronal Model	Natalia Nino Cocoma† (Vet Med)
Neira Garcia, Jorge Enrique	Poster #1100: 7/30 @ 10:30-11:30am	Using UAV-Based Hyperspectral and LiDAR to Estimate Leaf Area Index in Maize	Daniela Solarte Rodriguez† (Engineering)

Name	Presentation	Title	Students
Neira Garcia, Jorge Enrique	Poster #1243: 7/30 @ 12:00-1:00pm	Self-Improving Agent Skills for Reproducible Scientific Simulation Workflows	Juan Garcia† (Engineering)
Neira Garcia, Jorge Enrique	Poster #1244: 7/30 @ 12:00-1:00pm	Coated in slime: the physical properties of skin mucus across fish species	Gabriela Garcia Cardenas† (Science)
Neira Garcia, Jorge Enrique	Poster #1250: 7/30 @ 12:00-1:00pm	RNA expression reveals heat shock resistance genes in distinct potato cultivars	Valeria Raquel Hernandez Barboza† (Science)
Neira Garcia, Jorge Enrique	Poster #1251: 7/30 @ 12:00-1:00pm	Beyond Rest and Task: Information-Theoretic Measures of Brain Reconfiguration as Biomarkers of Familial Risk for Alcohol Use	Ana Maria Hernandez Conde† (Engineering)
Neira Garcia, Jorge Enrique	Poster #1275: 7/30 @ 12:00-1:00pm	VISIBLE: Visualizing Infant Developmental States Through Noninvasive Multisensory Bioelectronics	Andrea Rocha Barajas† (Engineering)
Neira Garcia, Jorge Enrique	Talk #7004: 7/30 @ 10:20am	Finding the Story in the Sound: A Language-Model-Driven System for Synchronized Audio and Lyrical Narrative Visualization	William Andres Bayona Vergara† (Polytechnic)
Neira Garcia, Jorge Enrique	Talk #7046: 7/30 @ 1:20pm	Risk Exposure of U.S. Industry Sectors to Oil Price Shocks	Santiago Melo Munoz† (Engineering)
Neira Garcia, Jorge Enrique	Talk #7050: 7/30 @ 1:40pm	Fluid-Powered Autonomy: Embedded Fluidic Oscillators for Pneumatic and Hydraulic Soft Robots	Camila Uribe† (Engineering) Juan Pablo Monge Mesen† (Engineering)
Neira Garcia, Jorge Enrique	Talk #7061: 7/30 @ 2:20pm	A Looking Glass Into the Future of Disease in a Warmer World: Susceptibility to <i>Metschnikowia bicuspidata</i> Infection in <i>Daphni</i>	Ana Martinez† (Science)
Neokosmidis, Nikolaos	Poster #1299: 7/30 @ 12:00-1:00pm	Investigating the mechanism of an emulsion-based vaccine adjuvant	Quynh Lam Nguyen† (Science)
Neupane, Mohan Bikram	Poster #1267: 7/30 @ 12:00-1:00pm	Orientation Dependent Excitonic Coupling and Purcell Enhancement in MoOCl ₂ -TMDC Heterostructures	Ryan Y Manley† (Engineering)
Ngai, Ming Yu	Poster #1228: 7/30 @ 12:00-1:00pm	Selective Molecular Editing via Earth-Abundant Transition Metal Catalysis	Aritra Barman† (Science)
Ngo, Timmy	Poster #1428: 7/30 @ 1:30-2:30pm	Experimental validation of a Coupled Eulerian-Lagrangian model to predict granular discharge in industrial hoppers.	Abel Paul Sholey Kallely† (Engineering)
Nguyen, An My	Poster #1206: 7/30 @ 12:00-1:00pm	Production of Bispecific T-Cell Engagers in Rosetta-gami 2 (DE3) Cells	Teresa Hayden† (Agriculture) Yuxin Zhuang‡ (Agriculture) Pragya Jain* (Agriculture)
Nguyen, James Hoang	Poster #1491: 7/30 @ 1:30-2:30pm	Addition of pentanol enhance aqueous zinc metal battery lifetime and performance	Kaleb Caudle† (Science)
Nguyen, Thach	Poster #1492: 7/30 @ 1:30-2:30pm	Coronary Cyclical Cardiac-based Lesion Location and Cardiovascular Risk Factors vs Severity of Right Coronary Artery Stenosis	Nha Chau† (Unknown) Quang Vo‡ (Unknown) Pham Phan‡ (Unknown) Ngoc Nguyen‡ (Unknown) Quang Hoang‡ (Unknown)
Nguyen, Thach	Poster #1503: 7/30 @ 1:30-2:30pm	Left Ventricular Ejection Fraction, Right Coronary Artery Reverse Flow, and Lesion Distribution in Coronary Angiography	Khanh Le† (Unknown) Thy Le‡ (Unknown) Van Hoang‡ (Unknown) Thi Chau‡ (Unknown) Khanh Le‡ (Methodist Hospitals)

Name	Presentation	Title	Students
Nguyen, Thach	Poster #1505: 7/30 @ 1:30-2:30pm	Understanding Coronary Artery Disease and Atherosclerosis Through the Language of Fluid Dynamics	Dhruva Magesh [†] (Unknown) Mateusz Wlodarczyk [†]
Nguyen, Thach	Poster #1510: 7/30 @ 1:30-2:30pm	Association of Systolic BP and LDL Cholesterol with Retrograde Coronary Flow and Lesion Distribution in Coronary Angiography	Ngoc Nguyen [†] (Unknown) Thuy Nguyen [‡] (Unknown) Thi Chau [‡] (Unknown) Nghia Nguyen [‡] (Unknown) Quang Hoang [‡] (Unknown)
Nguyen, Thach	Poster #1511: 7/30 @ 1:30-2:30pm	Wide Pulse Pressure and Reverse Flow in the Right Coronary Artery on Dynamic Coronary Angiography	Thai Nguyen [†] (Unknown) Sanad Ahmad [‡] (Unknown) Thy Le [‡] (Unknown) Quang Vo [‡] (Unknown) Van Hoang [‡] (Unknown)
Nguyen, Thach	Poster #1517: 7/30 @ 1:30-2:30pm	Angiographic Factor Predicting Persistent Normalization of Ejection Fraction in Dilated Cardiomyopathy	Jayden Shah [†] (Lake Central High School) Ngoc Anh T Nguyen [†] (PNW)
Nguyen, Thach	Poster #1521: 7/30 @ 1:30-2:30pm	Acute Coronary Syndrome Comorbidity with Heart Failure in Elderly Patients	Vo Uyen [†] (Tan Tao University)
Nie, Linda	Poster #1081: 7/30 @ 10:30-11:30am	ML-Based Unsupervised Segmentation of Synchrotron XRF Data to Identify Metal Patterns in AD and Healthy Brain Tissue	Zonghan Lei [†] (Science JMHC)
Nie, Linda	Poster #1292: 7/30 @ 12:00-1:00pm	Association of Cumulative Lead Exposure and APOE ε4 Status with Cognitive Decline in Older Adults	Elisa Chen [†] (Science JMHC) Grace Ann Kowis [‡] (HHS Liberal Arts)
Nie, Linda	Poster #1473: 7/30 @ 1:30-2:30pm	Characterization of a Well-Type NaI(Tl) Detector for In-Vivo Neutron Activation Analysis Application	John W Fabian [†]
Nie, Linda	Poster #1525: 7/30 @ 1:30-2:30pm	Comparison of Correlation, Distribution, and Concentration of Metals and Trace Elements in AD and Healthy Human Brain Tissue	Richard Z Zhang [†] (Engineering) Zonghan Lei [‡] (Science JMHC)
Nieforth, Leanne	Poster #1301: 7/30 @ 12:00-1:00pm	Pets in the Classroom: A Conventional Content Analysis of Teachers' Experiences with Classroom Pets	Thanya Thotakura [†] (Vet Med)
Nieforth, Leanne	Poster #1316: 7/30 @ 12:00-1:00pm	The Hands Who Foster: Demographics of Animal Foster Volunteers	A'Mya Murray Coleman [†] (HHS)
Nieforth, Leanne	Poster #1507: 7/30 @ 1:30-2:30pm	Customs and courtesies: Preliminary qualitative analysis of an equine-assisted learning program for military veterans	Kelly Marie Makovic [†] (Vet Med)
Nieforth, Leanne	Talk #7086: 7/30 @ 3:20pm	Couples Perceptions of Family Functioning in Military Families with a PTSD Service Dog: A Convergent Mixed Methods Analysis	Tatum Reese Ebbeskotte [†] (Science Vet Med)
Niichel, Matthew M	Poster #1476: 7/30 @ 1:30-2:30pm	Radiation Shield Adaptable to Complex Geometries for Microelectronics Testing	Nadine Yifei Poon [†] (Engineering)
Ninkovic, Nemanja	Poster #1459: 7/30 @ 1:30-2:30pm	Automating 2D material exfoliation	Aditya Srinivasan [†] (Science)
Ninkovic, Nemanja	Poster #1515: 7/30 @ 1:30-2:30pm	Twisted Two-Dimensional Devices Yield Novel Quantum Phenomena	Timothy A Schmiedl [†] (Science JMHC) Diya Shivpuje [†] (PWL)
Noinaj, Nicholas	Poster #1110: 7/30 @ 10:30-11:30am	Analysis of temperature-sensitive mutations in Salmonella typhimurium	Ruoqin Rachel Yang [†] (Science) Olivia Nicole Safranek [‡] (Science)
Noinaj, Nicholas	Poster #1211: 7/30 @ 12:00-1:00pm	Geometric Characterization of Helix Orientation Across Protein Kinase Conformational States	Nycholas Contreras [†] (PWL)

Students' Role Notations: [†]Presenting Author, [‡]Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Noinaj, Nicholas	Poster #1214: 7/30 @ 12:00-1:00pm	Discovery of Novel Covalent Inhibitors of the Cryptic Site of the Protein Tyrosine Phosphatase SHP-1.	Roman Matamoros† (PWL) Olivia Nicole Safranek* (Science)
Noinaj, Nicholas	Poster #1217: 7/30 @ 12:00-1:00pm	Computational and Experimental Analysis of SAH Hydrolase inhibition by Adenosine Analogs	Emily Truong† (PWL)
Noinaj, Nicholas	Poster #1218: 7/30 @ 12:00-1:00pm	Characterizing the Role of Mouse Granzyme A in LPS-Mediated Inflammation	Anika Vaz† (Purdue University) Samantha Sarah Lin‡ (Pharmacy JMHC)
Noinaj, Nicholas	Talk #7053: 7/30 @ 1:40pm	Thermosensitive Histidine Dehydrogenase (HisD) Mutants in <i>Salmonella typhimurium</i>	Olivia Nicole Safranek† (Science) Ruoqin Rachel Yang* (Science)
Noronha, Ian	Poster #1461: 7/30 @ 1:30-2:30pm	Investigating the Integration of Dense Vision and Non-Traditional Sensing Modalities for Robust Robotic Perception	Gabriel Torres† (Engineering)
Nuetzel, Andrew	Poster #1305: 7/30 @ 12:00-1:00pm	Sustainable Additive Manufacturing Using Thermoplastic Starch Bioplastic Filament	Basil Alojant† (Engineering)
Oakley, Christopher G	Poster #1281: 7/30 @ 12:00-1:00pm	Contribution of roots vs shoots to adaptive cold acclimation in <i>Arabidopsis thaliana</i>	Colleen Ryan Squier† (Agriculture) Stephanie Tirado Rojas* (Agriculture)
Ogas, Joe	Poster #1017: 7/30 @ 10:30-11:30am	Investigating the Role of HTA8 in PKL-Dependent Chromatin Regulation and Development in <i>Arabidopsis Thaliana</i>	Lila Rivera† (PWL) Blaine Andrew Wagner* (Agriculture JMHC)
Ogas, Joe	Poster #1021: 7/30 @ 10:30-11:30am	Functional analysis of putative chromatin assembly factors in <i>Arabidopsis</i>	Duncan Patrick Blank† (Agriculture)
Oh, Heung Jin	Poster #1006: 7/30 @ 10:30-11:30am	A Comparative Life-cycle Assessment Workflow for Interpreting Divergence in Early-Stage Building Carbon Estimates	DANIEL SEARS GREGORY† (Polytechnic) Hope Rockmore-Johnson† (Engineering)
Oh, Heung Jin	Poster #1480: 7/30 @ 1:30-2:30pm	Guardrail information model: A traceable AI agent methodology for reducing information loss in 2D infrastructure plans.	Luis Felipe Pardo Diaz† (Polytechnic)
Oh, Junyoung	Poster #1049: 7/30 @ 10:30-11:30am	Acoustic Detection of Tool Changes in CNC Milling via Deep Learning	Minseong An†
Okos, Martin R	Poster #1405: 7/30 @ 1:30-2:30pm	ABETutor: Domain-Constrained AI Tutoring System	Paridhi Agarwal† (Engineering) Akshith Garapati* (Engineering)
Olawolu, Waire	Poster #1057: 7/30 @ 10:30-11:30am	Experimentally Probing Mechanistic Differences in Toluene Methylation with Methanol and Dimethyl Ether within H-MFI zeolite	Brendan Edward Crump† (Engineering)
Olawolu, Waire	Poster #1106: 7/30 @ 10:30-11:30am	Evaluating the Effect of Framework Aluminum Distributions on the Hydrothermal Stability of Phosphorus-Modified MFI Zeolites	Emerson Waltz† (Engineering)
Olawolu, Waire	Poster #1411: 7/30 @ 1:30-2:30pm	Investigating the Role of Neutral Hydroxyl Groups and Sodium on Aluminum Siting in MFI Synthesis	Anna S Chambers† (Engineering)
Olawolu, Waire	Poster #1417: 7/30 @ 1:30-2:30pm	Identifying the Role of Platinum in Decreasing Methanization during Polymer Upcycling on Bimetallic RuPt Alloy Catalysts	Renee Duan† (Engineering)
Olawolu, Waire	Poster #1433: 7/30 @ 1:30-2:30pm	LLM-Guided Evolutionary Discovery of Reaction Networks from Transient Data via Programmatic Search and Nonlinear Optimization	Leland Li† (Engineering)

Name	Presentation	Title	Students
Olawolu, Waire	Poster #1460: 7/30 @ 1:30-2:30pm	Methods to control zeolite framework atom removal and insertion in varying environments within the MFI topology	Kaylani Le'mae Tomlin† (Engineering)
Olawolu, Waire	Talk #7020: 7/30 @ 11:40am	ChemOperator: A Reproducible Simulation Library for Chemical Engineering Operator Learning	Rohan Patel† (Engineering)
Olawolu, Waire	Talk #7034: 7/30 @ 12:20pm	Machine Learning for Fast Decision Generation in Engineering Optimization	Samuel Kinstlinger† (Engineering)
Olawolu, Waire	Talk #7035: 7/30 @ 12:40pm	Cellulose Nanocrystals as a Biotemplate for Gold Nanomaterial Synthesis	Raina Wang† (Engineering) Halaya Vann‡ (Engineering)
Olawolu, Waire	Talk #7056: 7/30 @ 1:40pm	Investigating Zinc Incorporation During Zn-MFI Synthesis for Fuel and Chemical Production	Alana N White† (Engineering)
Olawolu, Waire	Talk #7062: 7/30 @ 2:40pm	Synthesis of biotemplated palladium-coated nanorods on cellulose nanocrystals	Halaya Vann† (Engineering) Raina Wang‡ (Engineering)
Olek, Jan	Talk #7079: 7/30 @ 3:20pm	Investigating Performance of Nanosilica and Non-traditional and Natural Pozzolans in Type II Cementitious systems	Aryan Daga† (Engineering)
Olson, Matthew	Poster #1218: 7/30 @ 12:00-1:00pm	Characterizing the Role of Mouse Granzyme A in LPS-Mediated Inflammation	Anika Vaz† (Purdue University) Samantha Sarah Lin‡ (Pharmacy JMHC)
Olson, Matthew	Poster #1518: 7/30 @ 1:30-2:30pm	Designing Microfluidic Chips for Accurate Neutralizing-Antibody Capture Using Magnetophoresis	Maia Stef-Praun† (Engineering)
Osorio Pinzon, Juan Camilo	Talk #7048: 7/30 @ 1:00pm	Pressure-Triggered Contact Sensing for Fully Mechanical Soft Robotic Response	Juan Pablo Monge Mesent† (Engineering)
Osorio Pinzon, Juan Camilo	Talk #7050: 7/30 @ 1:40pm	Fluid-Powered Autonomy: Embedded Fluidic Oscillators for Pneumatic and Hydraulic Soft Robots	Camila Uribe† (Engineering) Juan Pablo Monge Mesen‡ (Engineering)
Otremba, Jo	Poster #1489: 7/30 @ 1:30-2:30pm	Transcribing the Audio-Visual Materials within the Neil A. Armstrong papers	Hannah Marie Cano† (Liberal Arts Libraries)
Otto, Kevin John	Poster #1446: 7/30 @ 1:30-2:30pm	Spatial Optimization of Intracortical Ultramicroelectrode Stimulation	Evelynn Marie Papez† (Engineering JMHC)
Ozerov, Stepan	Poster #1108: 7/30 @ 10:30-11:30am	Tensioned Metastable Fluid Detection for High-Efficiency Rn-222 Analysis in Drinking Water at Ultra-Trace Concentrations	Ryan James Williams† (Engineering)
Ozerov, Stepan	Poster #1114: 7/30 @ 10:30-11:30am	Novel, Low-Cost PLA Biopolymer Based Monitoring of Ionizing Gamma Radiation Dose for Space-Based Microelectronics	Seth Everette Cowan† (Engineering)
Ozerov, Stepan	Talk #7065: 7/30 @ 2:40pm	Comparison of Neutron Detectors and Evaluation of Shielding Materials for Space Microelectronics	Jack G Darby† (Engineering)
P Thirumalaikumar, Venkatesh	Poster #1019: 7/30 @ 10:30-11:30am	Mapping the RLCK Interactome in Tomato Immunity Using Proteomics	Bella Turnbull† (PWL)
P Thirumalaikumar, Venkatesh	Talk #7067: 7/30 @ 2:20pm	An automated workflow for Multi-Omics Analysis using Solvent Touch Extraction.	Jesus Esteban Ladino Giraldo† (PWL)
Pagadala, Karthik	Poster #1267: 7/30 @ 12:00-1:00pm	Orientation Dependent Excitonic Coupling and Purcell Enhancement in MoOCl ₂ -TMDC Heterostructures	Ryan Y Manley† (Engineering)

Name	Presentation	Title	Students
Pal, Shraman	Poster #1076: 7/30 @ 10:30-11:30am	Learning-Based Projection Methods for Nonconvex Constrained Optimization	Akhil Kota [†] (Engineering)
Pal, Shraman	Talk #7034: 7/30 @ 12:20pm	Machine Learning for Fast Decision Generation in Engineering Optimization	Samuel Kinstlinger [†] (Engineering)
Pal, Sreetama	Talk #7029: 7/30 @ 11:40am	Molecular thresholds for activation and fratricide by anti-B7-H3 CAR T cells	Nicole Shashurin [†] (Science)
Pal, Uttam	Poster #1514: 7/30 @ 1:30-2:30pm	Low pH Exposure Alters Mediator Response in Poly(o-phenylenediamine)-Based Molecularly Imprinted Polymer Sensors	Amanda Rodriguez-Gonzalez [†] (Engineering) Keeley Vonne Farmer* (Science) Ali Jo Crouse* (Science)
Palahnuk, Grace Elizabeth	Poster #1421: 7/30 @ 1:30-2:30pm	Association Between Hemodynamics and Vessel Wall Enhancement in Intracranial Aneurysms	Diego Alejandro Hernandez Acosta [†] (Engineering)
Palau Andrade, Marie Kate	Poster #1522: 7/30 @ 1:30-2:30pm	Role of Delamination found in Microtrichia at the Elytral Interlocking Mechanism of the Diabolical Ironclad Beetle	Tomas Vargas-Bernal [†] (Engineering JMHC)
Pamedis, Camryn Renee	Poster #1302: 7/30 @ 12:00-1:00pm	Impact of Chronic Variable Stress on Neurobehavioral Function Following DMM Surgery in Mice.	Xander L Tuttle [†] (Vet Med)
Pannala, Nipuni Maleesha	Talk #7037: 7/30 @ 12:20pm	"Structural Characterization of N-terminally ubiquitinated BAP1 in complex with Ub-VME"	Donovan Dewitt [†] (PWL)
Pantoya, Aidan Damian	Poster #1104: 7/30 @ 10:30-11:30am	The Impact of Colliding Deflagration Waves	Likhita Tinga [†] (Engineering)
Pantoya, Aidan Damian	Talk #7063: 7/30 @ 2:00pm	Mapping the Stacking and Surface Chemistry Landscape of MXenes and Metal Carbides via DFT and Molecular Dynamics	Samiya Balu [†] (Engineering) Sahana Mukund [†] (Science)
Parande, Pramod Sunil	Poster #1100: 7/30 @ 10:30-11:30am	Using UAV-Based Hyperspectral and LiDAR to Estimate Leaf Area Index in Maize	Daniela Solarte Rodriguez [†] (Engineering)
Parande, Pramod Sunil	Poster #1109: 7/30 @ 10:30-11:30am	An Integrated Processing and Interference Quality-Check Tool for Drone-Collected Synthetic Aperture Radar Data	Ryan Wu [†] (Engineering)
Parekh, Neel Tushar	Poster #1423: 7/30 @ 1:30-2:30pm	Bone-Targeted Radioligand Therapy for Multiple Myeloma	Juyeon Im [†] (Science) Yunsuk Lee [‡] (HHS) Tara Ruslen Blanc [‡] (Science)
Park, Jaewon	Poster #1464: 7/30 @ 1:30-2:30pm	Experimental Design and Prototyping for TPMS Condensers in Data Centers	Serena Yuanyuan Wei [†] (Engineering Science)
Park, Jaewon	Talk #7047: 7/30 @ 1:40pm	Computational Design and Optimization of Functionally Graded TPMS Heat Exchangers	Wyatt Soberg Catz [†]
Park, Jihoon	Poster #1077: 7/30 @ 10:30-11:30am	Creating Connected Pathways in Iron: Engineering Interconnected Porous Networks Through Magnesiothermic Reduction	Emily Danielle Kushner [†] (Engineering) Helen Sophia Brzozowski* (Engineering)
Park, Jihoon	Poster #1408: 7/30 @ 1:30-2:30pm	Nickel Powder and Foil with Reaction-Synthesized Porous Surfaces	Helen Sophia Brzozowski [†] (Engineering) Emily Danielle Kushner* (Engineering)
Parker, Brandon Delos	Poster #1445: 7/30 @ 1:30-2:30pm	Two-Dimensional Acoustic Spectroscopy: Exploration of Quantum Phenomena in Macroscopic Nonlinear Dynamics	Zoe Noznesky [†] (Science)

Students' Role Notations: [†]Presenting Author, [‡]Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Parkinson, Elizabeth I	Poster #1468: 7/30 @ 1:30-2:30pm	Cas12a-Assisted Precise Targeted Cloning and Characterization of <i>Nonomuraea candida</i> NRRL B-24552 Biosynthetic Gene Cluster	Eloise Zambrano [†] (Science)
Parkinson, Elizabeth I	Poster #1488: 7/30 @ 1:30-2:30pm	Investigating the biocatalytic activity of SavA/B homologs in <i>S. pristinaespiralis</i> via heterologous expression in <i>E. coli</i>	Phoebe Burrell [†] (Liberal Arts Science)
Parkinson, Elizabeth I	Poster #1499: 7/30 @ 1:30-2:30pm	Uncovering Structural Determinants of Substrate Scope in a Peptide Cyclase Enzyme Family	Lucas O Johnson [†] (Science)
Patnaik, Satyaroop	Poster #1269: 7/30 @ 12:00-1:00pm	Three Dimensional (3D) Imaging and Analysis of Damage in Sn-Ag-Cu Solder Ball Grid Arrays Under Thermal Cycling	Abhishek Manoj Nair [†] (Engineering Libraries)
Pearce, Ben K D	Poster #1422: 7/30 @ 1:30-2:30pm	Prebiotic Reaction Network Characterization for Ammonia-free Alanine Formation on Titan.	Rinat Ilyussizov [†] (Science)
Pekny, Joseph F	Talk #7031: 7/30 @ 12:20pm	A Market-Driven Framework for Neutron Detection: Aligning Detector Technologies with Emerging Nuclear Applications	Lucas K Philip [†] (Engineering) Samuel B Angus* (Engineering) Cory Berlin Stephenson* (Engineering)
Peng, Huiyun	Talk #9016: 7/27-7/31 virtually	Hardware-aware code optimization using LLM fine-tuning with pairwise multi-objective DPO driven by a Lagrangian relaxation	Stefan Teodor Maxim [†] (Science) Arjun Sandeep Gupte [‡] (Engineering) Ahmed Tarek Ibra Elmersawy [‡] (Engineering) Andre Lee [‡] (Engineering)
Perez Herrera, David	Poster #1028: 7/30 @ 10:30-11:30am	Decreased Raman Spectroscopic Carotenoid Bands Indicate Oxacillin-Induced Stress in <i>Staphylococcus aureus</i>	Sophia Morris [†] (Agriculture JMHC)
Perez Herrera, David	Poster #1055: 7/30 @ 10:30-11:30am	Evaluation of the In Situ Raman Detection Limit for Bacterial Colonies	Avery Chan [†] (Engineering)
Perez Herrera, David	Poster #1425: 7/30 @ 1:30-2:30pm	Development of an Endothelial Microfluidic Chip Model as a Platform for Drug Delivery Studies in Cancer	Delfina B Jackson [†] (Engineering)
Peroulis, Dimitrios	Poster #1260: 7/30 @ 12:00-1:00pm	Automated Radio Evaluation Suite: Modular Testing Architecture	Joseph Timothy Krittenbrink [†] (Engineering)
Peroulis, Dimitrios	Poster #1458: 7/30 @ 1:30-2:30pm	Analysis of Fast Tuning Methods for Cross Coupled Resonator Cavity Filters	Peter Robertson Skrdla [†] (Engineering) Joseph Timothy Krittenbrink* (Engineering)
Peters, Ryan George	Talk #7013: 7/30 @ 10:20am	Investigating substitutions in Hypervariable Region 1 of Hepatitis C virus envelope protein E2 to improve antibody binding	Mei Qi Gordon-Washington [†] (PWL)
Pham, Linh Nghiem Hai	Poster #1221: 7/30 @ 12:00-1:00pm	Salience of Racial Demographic Shift and Childlessness Information on Attitudes Towards Reproductive Choices	Jasmine Yichen Lu [†] (PWL)
Pienaar, Elsje	Poster #1087: 7/30 @ 10:30-11:30am	A Tuberculosis Infection and Treatment ODE Model Investigating the Pharmacodynamics of Inhaled Antibiotics on Human Granuloma	Aidan Josef Monark [†] (Engineering)
Piladuwa Gamage, Sandali Lakmini	Poster #1215: 7/30 @ 12:00-1:00pm	Structural and Functional Insights into the Potent and Selective Inhibition of G Protein-Coupled Receptor Kinase 6	Tyler Paine [†] (PWL)

Name	Presentation	Title	Students
Poe, Michelle Anne	Poster #1299: 7/30 @ 12:00-1:00pm	Investigating the mechanism of an emulsion-based vaccine adjuvant	Quynh Lam Nguyen† (Science)
Porterfield, D. Marshall	Poster #1082: 7/30 @ 10:30-11:30am	In-Situ Pharmaceutical Production Platform with Mycoponic™ : Environmental Optimization of Pleurotus Exudate Yield	Ana Sofia Leiva Aldana† (Agriculture Engineering)
Porterfield, D. Marshall	Talk #7070: 7/30 @ 2:20pm	Collapse of the Human Thermal Body Plume: Modeling and Characterization of Gravity-Dependent Gas Exchange	Henry Ewald† (Engineering) Alvin Hu‡ (Engineering)
Post, Carol B	Poster #1211: 7/30 @ 12:00-1:00pm	Geometric Characterization of Helix Orientation Across Protein Kinase Conformational States	Nycholas Contreras† (PWL)
Prezzi, Monica	Poster #1479: 7/30 @ 1:30-2:30pm	Use of Digital Image Correlation in Calibration Chamber Tests to Study the Response of Soil in Geotechnical Engineering	Harol Esteban Botero Soto† (Engineering)
Prince, Md Rakibul Islam	Poster #1099: 7/30 @ 10:30-11:30am	A Color-Sensing Tactile Sensor for Combined Shear and Normal Force Detection in Robotic Applications	Paul Shannon Slack† (Engineering Science)
Prince, Md Rakibul Islam	Talk #7041: 7/30 @ 12:40pm	Photoelastic Gel Pad for Vision-Based Tactile Sensing	Samuel Timothy Bibeau† (Engineering)
Prissel, Kelsey	Talk #7008: 7/30 @ 10:40am	Radar-Based Identification of Buried Lava Flows in the Moon's South Pole-Aitken Basin	Liliana Triscari† (Science) Aaron Lee Perrault* (Science) Miah KeAnna Sinks* (Science)
Proctor, Caitlin Rose	Poster #1074: 7/30 @ 10:30-11:30am	Assessment of Pseudomonas Fluorescens as a Non-Pathogenic Model Invader in Plumbing Systems	Mary C Kirby†
Proctor, Caitlin Rose	Poster #1084: 7/30 @ 10:30-11:30am	Tracking and Evaluating Beneficial Microbial Establishment in Hydroponic Systems	Somi Lim† (Agriculture Engineering)
Pronk, Austin Jacob	Poster #1470: 7/30 @ 1:30-2:30pm	Investigation of the Photochemical Degradation of 6PPD Using UV-Vis Spectroscopy and Liquid Chromatography	Sana Azat† (Science)
Pyrak-Nolte, Laura J	Poster #1048: 7/30 @ 10:30-11:30am	Impact of Surface Mineralogy on Calcite Precipitation on Yates Amphibolite: A Combined X-ray CT and SEM-EDS Approach	Bolortsetseg Adiya† (Science)
Pyrak-Nolte, Laura J	Poster #1054: 7/30 @ 10:30-11:30am	Comparing Single and Double Transmission Methods for Determining Seismic Wave Velocities in Rock	Logan Ray Thomas Carleton† (Science)
Pyrak-Nolte, Laura J	Poster #1263: 7/30 @ 12:00-1:00pm	Deformation of Fracture Networks Under Normal Loading	Anastasia Patricia Lesniewski† (Liberal Arts Science) Connor Siurek* (Science)
Qadir, Muhammad ibtsaam	Poster #1273: 7/30 @ 12:00-1:00pm	Evaluating State-of-the-Art LLMs on Postoperative Commentary for Automated Surgical Feedback	Rushil Ramchand† (Engineering)
Qazi, Taimoor Hasan	Poster #1056: 7/30 @ 10:30-11:30am	Modulation of Mechanical, Injectable and Degradation Characteristics of MMP Cleavable Microgels to Advance Tissue Repair	Daniel Chi Hsien Chen Sandi† (Engineering)
Qazi, Taimoor Hasan	Poster #1290: 7/30 @ 12:00-1:00pm	Fabrication and Characterization of Injectable and Microporous Hydrogels for Potential Applications in Wound Healing	Francine Yu He Zhang† (Engineering)
Qiao, Li	Poster #1409: 7/30 @ 1:30-2:30pm	Experimental Characterization of Vent-Gas Ignition During Lithium-Ion Battery Thermal Runaway	Nicolas Bustamante† (Engineering)

Name	Presentation	Title	Students
Qiao, Li	Talk #7055: 7/30 @ 1:20pm	NASA Hydrogen Drone Refueling Project	William Zheng† Benjamin Tencza‡ (Engineering) Nicolas Bustamante‡ (Engineering)
Queen, Collin Michael	Poster #1417: 7/30 @ 1:30-2:30pm	Identifying the Role of Platinum in Decreasing Methanization during Polymer Upcycling on Bimetallic RuPt Alloy Catalysts	Renee Duan† (Engineering)
Quijano, Sydney P	Poster #1303: 7/30 @ 12:00-1:00pm	Hypoxia-Driven Lipid Uptake Increases Metastatic Potential	Cheyenne Renee Waddell† (Agriculture)
Rabbi, Md Foysal	Poster #1050: 7/30 @ 10:30-11:30am	Computational Investigation of Actin Cytoskeleton in Plant Cells	Rishab Anand† (Engineering)
Radefeld, Kelton James	Poster #1086: 7/30 @ 10:30-11:30am	Synthesis of novel ligands to improve reactivity and selectivity of organometallic reactions through electric field catalysis	Sophia D Madrazo† (Science)
Rahimi, Rahim	Poster #1030: 7/30 @ 10:30-11:30am	Smart Capsule Microbiome Profiling to Map Weaning Adaptation and Improve Swine Gastrointestinal Health	Nina O'Tain† (Agriculture) Sarabeth Grace Hargarten* (Agriculture) Sierra J Kingsford* (Agriculture) Grace Mae Kraemer* (Agriculture)
Rahimi, Rahim	Poster #1518: 7/30 @ 1:30-2:30pm	Designing Microfluidic Chips for Accurate Neutralizing-Antibody Capture Using Magnetophoresis	Maia Stef-Praun† (Engineering)
Rahman, Md Ashiqur	Poster #1003: 7/30 @ 10:30-11:30am	Asymmetric Polyvinylidene Fluoride (PVDF) – Graphitic Aerogel (GA) Membranes for Efficient Air Dehumidification	Mudit Pandey† (Engineering) Ishan Gopu Nair* (Engineering) Md Sadat Aarik* (Engineering)
Rahman, Md Ashiqur	Poster #1225: 7/30 @ 12:00-1:00pm	Quasi-Steady State Performance Analysis of a Dual-Module Humidity Pump and Heat Pump Integrated Industrial Dryer	Md Sadat Aarik† (Engineering) Ishan Gopu Nair‡ (Engineering) Mudit Pandey‡ (Engineering)
Rahman, Md Ashiqur	Poster #1320: 7/30 @ 12:00-1:00pm	Transient Modeling and Validation of a Passive Membrane Dehumidification Module for Energy-Efficient Industrial Drying	Alvan Ramee† (Engineering)
Rahman, Md Ashiqur	Poster #1441: 7/30 @ 1:30-2:30pm	Influence of Pore Morphology on Dehumidification Performance of Asymmetric Polyethersulfone Membranes	Ishan Gopu Nair† (Engineering) Mudit Pandey* (Engineering) Harishramani Venkatasubramanian* (Engineering) Md Sadat Aarik* (Engineering) Govind Sriram Lanka* (Engineering) Ron Cheng Xuan Chay* (Science)
Rajule, Shrikrishna Bhagirath	Poster #1090: 7/30 @ 10:30-11:30am	Bringing Low-Light 3D Reconstruction Online: Toward Real-Time Visual SLAM for Drones	Srinath Eswaran Neelamagam† (Science)
Rajwa, Bartek	Poster #1028: 7/30 @ 10:30-11:30am	Decreased Raman Spectroscopic Carotenoid Bands Indicate Oxacillin-Induced Stress in Staphylococcus aureus	Sophia Morris† (Agriculture JMHC)
Rakshit, Joydeep	Poster #1094: 7/30 @ 10:30-11:30am	Extraction and Purification of Elastin-Like Polypeptides for Layer-by-Layer Nanoparticle-Mediated mRNA Delivery	Yixuan Ren† (Science) Hayden Schneider* (Science JMHC) Steven Quocviet Phan* (Pharmacy)
Ram, Raghav	Poster #1414: 7/30 @ 1:30-2:30pm	Utilizing AC Field-Generated Pearl Chains to Deter Early-Stage Biofilm Formation	John G Christian† (Engineering)
Ramachandran, Ashwin	Poster #1414: 7/30 @ 1:30-2:30pm	Utilizing AC Field-Generated Pearl Chains to Deter Early-Stage Biofilm Formation	John G Christian† (Engineering)

Name	Presentation	Title	Students
Ranjan, Rajiv	Poster #1098: 7/30 @ 10:30-11:30am	A Foundation Model Approach to Crop Monitoring and Agroecosystem Analytics	Udaiveer Singh† (Agriculture Engineering)
Ranjan, Rajiv	Poster #1242: 7/30 @ 12:00-1:00pm	Geographic Robustness for Agricultural Earth Observation Foundation Models through Post-Hoc Adaptation	Akshith Garapati† (Engineering)
Rathore, Divyansh	Poster #1434: 7/30 @ 1:30-2:30pm	Spatial-Light-Modulator-Generated Optical Tweezer Arrays for Neutral Atom Nanophotonics	Khanh Mai† (Science)
Rayz, Vitaliy L	Poster #1421: 7/30 @ 1:30-2:30pm	Association Between Hemodynamics and Vessel Wall Enhancement in Intracranial Aneurysms	Diego Alejandro Hernandez Acosta† (Engineering)
Reega, Sarah Jean	Poster #1301: 7/30 @ 12:00-1:00pm	Pets in the Classroom: A Conventional Content Analysis of Teachers' Experiences with Classroom Pets	Thanya Thotakura† (Vet Med)
Reega, Sarah Jean	Poster #1507: 7/30 @ 1:30-2:30pm	Customs and courtesies: Preliminary qualitative analysis of an equine-assisted learning program for military veterans	Kelly Marie Makovic† (Vet Med)
Reibman, Amy R	Poster #1413: 7/30 @ 1:30-2:30pm	Mosaic Background Reconstruction for Fencing Video Preprocessing	Andrew Thomas Choung† (Engineering) Jacob Lee Prior* (Engineering)
Reibman, Amy R	Poster #1451: 7/30 @ 1:30-2:30pm	Computer Vision for Fencing Video Analysis	Jacob Lee Prior† (Engineering) Andrew Thomas Choung* (Engineering)
Reppert, Michael Earl	Poster #1445: 7/30 @ 1:30-2:30pm	Two-Dimensional Acoustic Spectroscopy: Exploration of Quantum Phenomena in Macroscopic Nonlinear Dynamics	Zoe Noznesky† (Science)
Richards, Alyssa Marine	Poster #1229: 7/30 @ 12:00-1:00pm	2D and 4D Ultrasound Assessment of Ejection Fraction in an Empagliflozin-Treated Murine Model of Duchenne Muscular Dystrophy	Olivia Bell† (Engineering) Alekh Pratish Shah‡ (Engineering) Xavier Thomas Cedric Tribout‡ (PWL)
Richert, Brian T	Poster #1030: 7/30 @ 10:30-11:30am	Smart Capsule Microbiome Profiling to Map Weaning Adaptation and Improve Swine Gastrointestinal Health	Nina O'Tain† (Agriculture) Sarabeth Grace Hargarten* (Agriculture) Sierra J Kingsford* (Agriculture) Grace Mae Kraemer* (Agriculture)
Rimer, Ian	Poster #1281: 7/30 @ 12:00-1:00pm	Contribution of roots vs shoots to adaptive cold acclimation in Arabidopsis thaliana	Colleen Ryan Squier† (Agriculture) Stephanie Tirado Rojas* (Agriculture)
Rincon Angarita, Jhonatan Steven	Talk #7048: 7/30 @ 1:00pm	Pressure-Triggered Contact Sensing for Fully Mechanical Soft Robotic Response	Juan Pablo Monge Mesen† (Engineering)
Rincon Angarita, Jhonatan Steven	Talk #7050: 7/30 @ 1:40pm	Fluid-Powered Autonomy: Embedded Fluidic Oscillators for Pneumatic and Hydraulic Soft Robots	Camila Uribe† (Engineering) Juan Pablo Monge Mesen‡ (Engineering)
Ringenberg, Tatiana	Talk #9019: 7/27-7/31 virtually	AI's Effect on Cybersecurity Insider Threats	Sloka Sanampudi† (Polytechnic)
Ripberger, Adeline Nora	Poster #1063: 7/30 @ 10:30-11:30am	Development of a Comfortable, Breathable, Cut-Resistant Hockey Neck Guard	Nicolas Gomez Velasquez† (Engineering) Cole J Burnett‡ (Engineering)
Ripberger, Adeline Nora	Poster #1231: 7/30 @ 12:00-1:00pm	Development of a Comfortable, Wearable, Cut-Resistant Hockey Neck Guard	Cole J Burnett† (Engineering) Nicolas Gomez Velasquez‡ (Engineering)

Name	Presentation	Title	Students
Ripberger, Adeline Nora	Talk #7045: 7/30 @ 1:00pm	Enhancing Tennis Racket Feel Through Multi-Material Additive Manufacturing of Handle Pallets	Drake R Augustine† (Engineering) Kyle Landon Friedrich‡ (Engineering) Megan Rose Magee‡ (Engineering)
Ristroph, Kurt	Poster #1482: 7/30 @ 1:30-2:30pm	Regulation of bone remodeling through co-delivery of STING antagonist and phenamil nanocarriers.	Abigail Catherine Alexander† (Vet Med)
Ristroph, Kurt	Poster #1484: 7/30 @ 1:30-2:30pm	Targeting Pro-Inflammatory Macrophages via Sialylated Nanocarriers for Treatment of Rheumatoid Arthritis	Gabrielle Marie Barrido† (PWL)
Rizkalla, Maher E	Poster #1432: 7/30 @ 1:30-2:30pm	Design and Simulation of a 64 MHz Birdcage Antenna System with a Reflective Cap for Non-Invasive Alzheimer's Disease Therapy	Hao-Chen Li† (Engineering)
Roberts, Carson Bailey	Poster #1468: 7/30 @ 1:30-2:30pm	Cas12a-Assisted Precise Targeted Cloning and Characterization of <i>Nonomuraea candida</i> NRRL B-24552 Biosynthetic Gene Cluster	Eloise Zambrano† (Science)
Roberts, Evan	Poster #1304: 7/30 @ 12:00-1:00pm	Collective Memory in Bacterial Communities: Could It Help Reverse Antibiotic Resistance?	Israel Adenuga† (Homewood-Flossmoor High School) Alessandra Orr† (Homewood-Flossmoor High School) Jolissa Abeht† (Homewood-Flossmoor High School)
Robinson, Joseph Paul	Poster #1028: 7/30 @ 10:30-11:30am	Decreased Raman Spectroscopic Carotenoid Bands Indicate Oxacillin-Induced Stress in <i>Staphylococcus aureus</i>	Sophia Morris† (Agriculture JMHC)
Rochon, Kristy	Talk #7014: 7/30 @ 10:40am	High-Resolution Cellular STA using Ribosome Alignment	Anna Boeva† (PWL)
Rodgers, Jack Patrick	Talk #7085: 7/30 @ 3:00pm	Bumblebee, a Foundation Model for Particle Physics Discovery	Cara Suht† (Science)
Rodriguez Osorio, Jenny Alejandra	Poster #1218: 7/30 @ 12:00-1:00pm	Characterizing the Role of Mouse Granzyme A in LPS-Mediated Inflammation	Anika Vaz† (Purdue University) Samantha Sarah Lin‡ (Pharmacy JMHC)
Rogers, Marcus K	Talk #9019: 7/27-7/31 virtually	AI's Effect on Cybersecurity Insider Threats	Sloka Sanampudi† (Polytechnic)
Rojas Gutierrez, Juan Diego	Poster #1281: 7/30 @ 12:00-1:00pm	Contribution of roots vs shoots to adaptive cold acclimation in <i>Arabidopsis thaliana</i>	Colleen Ryan Squier† (Agriculture) Stephanie Tirado Rojas* (Agriculture)
Rokhinson, Leonid P	Poster #1435: 7/30 @ 1:30-2:30pm	Angle-Dependent Superconducting Transport in hBN-Encapsulated 2M-WS ₂ at cryogenic Temperatures	Sri Krishna Teja Mannava† (Science)
Rokhinson, Leonid P	Talk #7026: 7/30 @ 11:40am	Design and Noise Characterization of a Low-Noise Voltage Preamplifier for Nanovolt-Scale Measurements	Shashank Varamballi† (Engineering Science)
Roldan Carvajal, Mateo	Poster #1097: 7/30 @ 10:30-11:30am	Characterization of the Separation via Reverse Osmosis in Chemicaloric Refrigeration Cycles	Rohan Ashish Shrowty† (Engineering)
Roldan Carvajal, Mateo	Poster #1112: 7/30 @ 10:30-11:30am	Experimental Metathesis Low-salt-rejection Reverse Osmosis for Improved Resource Recovery	Kai-Xing Yue† (Engineering)
Romaguera-Rios, Luis Gerardo	Poster #1058: 7/30 @ 10:30-11:30am	A Semi-Automated Pipeline for Generating Finite Element Models of Plant Cells from Confocal Microscopy	Guilherme de Souza Correa† (Engineering)
Romero Alzate, Alejandra	Talk #7074: 7/30 @ 2:40pm	Optimization of a Folate Conjugated Fully Modified miR-34a for Enhanced Stability, Uptake, and Activity	Aindri Abhishek Singh† (PWL)

Students' Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Rounds, Ace	Poster #1449: 7/30 @ 1:30-2:30pm	Automation Methods for Gamma Ray Spectroscopy and Data Analysis	Truman Carl Parrish [†] (Science) Ananya Molugu [†] (Science)
Rounds, Ace	Talk #7007: 7/30 @ 10:20am	Pixel-Wise Gamma-Ray Coincidence Detection Using U-Net Convolutional Networks	Samuel D Bryan [†] (Science) Erick Vazquez Torres [†] (Science)
Rounds, Ace	Talk #7052: 7/30 @ 1:20pm	Machine-Learning-Driven Nuclear Band Reconstruction from γ - γ Coincidence Data	Josiah W Beauchaine [†] (Science) Truman Carl Parrish [‡] (Science)
Roy, Kaushik	Poster #1123: 7/30 @ 10:30-11:30am	Conversational FPGA Design Space Exploration: A ReAct-Based LLM Agent Coupled with a Transformer-Based Surrogate Model	Carlos Alexis Ortiz Gonzalez [‡] (Engineering)
Roy, Lipi	Poster #1048: 7/30 @ 10:30-11:30am	Impact of Surface Mineralogy on Calcite Precipitation on Yates Amphibolite: A Combined X-ray CT and SEM-EDS Approach	Bolortsetseg Adiya [†] (Science)
Roy, Lipi	Poster #1070: 7/30 @ 10:30-11:30am	Speech-Based Assessment of Acute Fatigue in Surgical Team Members	Yizheng Jiang [†] (Engineering) Kelcie Edrea T Estrera [‡] (Science)
Roy, Lipi	Poster #1087: 7/30 @ 10:30-11:30am	A Tuberculosis Infection and Treatment ODE Model Investigating the Pharmacodynamics of Inhaled Antibiotics on Human Granuloma	Aidan Josef Monark [†] (Engineering)
Roy, Lipi	Poster #1111: 7/30 @ 10:30-11:30am	Smart PPG Earring for Multi-Modal Eating Detection and Dietary Monitoring	Feng Ye [†] (Science) Nguyen Chan Nhu Pham [‡] (Liberal Arts) Antara Durbha [‡] (Science)
Roy, Lipi	Poster #1233: 7/30 @ 12:00-1:00pm	Additive Manufacturing of Transverse Flutes	Anirud Chakkarapani [†] (Engineering) Mirza Orunav Shahper [*] (Engineering)
Roy, Lipi	Poster #1254: 7/30 @ 12:00-1:00pm	Effect of Delivery Methods of Hyaluronidase on Enzymatic Degradation of Hyaluronic Acid	Mia Alexandra Jensen [†] (Engineering)
Roy, Lipi	Poster #1269: 7/30 @ 12:00-1:00pm	Three Dimensional (3D) Imaging and Analysis of Damage in Sn-Ag-Cu Solder Ball Grid Arrays Under Thermal Cycling	Abhishek Manoj Nair [†] (Engineering Libraries)
Roy, Lipi	Poster #1415: 7/30 @ 1:30-2:30pm	Build Large AI-Ready Database for Interface Science	Wen Xun Chua [†] (Science)
Roy, Lipi	Poster #1416: 7/30 @ 1:30-2:30pm	Functionalized DNA Tetrahedra to Enhance Cellular Uptake for siRNA Delivery Across the Blood-Brain Barrier	Abigail R Deaton [†] (Science JMHC)
Roy, Lipi	Poster #1424: 7/30 @ 1:30-2:30pm	Tumor Stromal Targeting – PDAC Tissue-Mimicking Phantom	Leonardo Isaac de Medeiros [†] (Engineering)
Roy, Lipi	Poster #1445: 7/30 @ 1:30-2:30pm	Two-Dimensional Acoustic Spectroscopy: Exploration of Quantum Phenomena in Macroscopic Nonlinear Dynamics	Zoe Noznesky [†] (Science)
Roy, Lipi	Poster #1451: 7/30 @ 1:30-2:30pm	Computer Vision for Fencing Video Analysis	Jacob Lee Prior [†] (Engineering) Andrew Thomas Choung [*] (Engineering)
Roy, Lipi	Poster #1455: 7/30 @ 1:30-2:30pm	Developing a Human Astrocyte Model to Study the Role of VPS35 in Alzheimer's Disease	Leonel Baskin Sesuraj Baskin [†] (Science)
Roy, Lipi	Poster #1462: 7/30 @ 1:30-2:30pm	Multimode Entanglement in Attosecond Controlled Squeezed Light	Sreeram Vengalloor Madhavan [†] (Science)
Roy, Lipi	Talk #7002: 7/30 @ 10:40am	Event and Passing Detection for Football (Soccer)	Boyang Zhang [†] (Engineering) Pranav Tallapaka [‡] (Engineering)
Roy, Lipi	Talk #7076: 7/30 @ 3:20pm	Movement Pattern Analysis in Football (Soccer)	Pranav Tallapaka [†] (Engineering) Boyang Zhang [‡] (Engineering)

Name	Presentation	Title	Students
Roy, Rajarshi	Poster #1211: 7/30 @ 12:00-1:00pm	Geometric Characterization of Helix Orientation Across Protein Kinase Conformational States	Nycholas Contreras [†] (PWL)
Rudakov, Grigorii Aleksandrovich	Poster #1075: 7/30 @ 10:30-11:30am	Functionalization of DNA tetrahedra for in vitro testing of siRNA delivery across the Blood-Brain Barrier	Anna Louise Kokosa [†] (Science JMHC) Megan Webb [‡] (Agriculture)
Rudakov, Grigorii Aleksandrovich	Poster #1096: 7/30 @ 10:30-11:30am	Characterization of Dual dsDNA tetrahedra assembly conditions	Nasser H Sanwari [†] (Engineering Science) Rebecca Rose Phelan* (Engineering)
Rudakov, Grigorii Aleksandrovich	Poster #1241: 7/30 @ 12:00-1:00pm	Functionalized DNA Tetrahedra for siRNA Delivery Across the Blood-Brain Barrier	Emma Foster [†] (Engineering Science)
Rudakov, Grigorii Aleksandrovich	Poster #1271: 7/30 @ 12:00-1:00pm	Optimizing DNA Tetrahedron Assembly for Blood-Brain Barrier Drug Delivery	Rebecca Rose Phelan [†] (Engineering) Nasser H Sanwari* (Engineering Science)
Rudakov, Grigorii Aleksandrovich	Poster #1416: 7/30 @ 1:30-2:30pm	Functionalized DNA Tetrahedra to Enhance Cellular Uptake for siRNA Delivery Across the Blood-Brain Barrier	Abigail R Deaton [†] (Science JMHC)
Rui, Yichao	Poster #1035: 7/30 @ 10:30-11:30am	Long-term Cereal Rye Cover Cropping Improves Soil Microbial Activity in Corn-Soy Systems	Catherine Song [†] (Agriculture)
Ruiz, Matthew Christian	Poster #1105: 7/30 @ 10:30-11:30am	Extending Gradual C0 to Support a Wider Variety of Programs	Mai Khanh Tran [†] (Engineering) Joao Vitor Carvalho Almeida [†] (Engineering)
Saberian, Elham	Poster #1253: 7/30 @ 12:00-1:00pm	Injectable Alginate-Chitosan Hydrogel: Fabrication and Characterization	Habin Jang [†] (Agriculture Engineering) Maxwell J Gootee [‡] (HHS Liberal Arts JMHC)
Saberian, Elham	Poster #1425: 7/30 @ 1:30-2:30pm	Development of an Endothelial Microfluidic Chip Model as a Platform for Drug Delivery Studies in Cancer	Delfina B Jackson [†] (Engineering)
Saha, Saghnik	Poster #1228: 7/30 @ 12:00-1:00pm	Selective Molecular Editing via Earth-Abundant Transition Metal Catalysis	Aritra Barman [†] (Science)
Salgado, Rodrigo	Poster #1479: 7/30 @ 1:30-2:30pm	Use of Digital Image Correlation in Calibration Chamber Tests to Study the Response of Soil in Geotechnical Engineering	Harol Esteban Botero Soto [†] (Engineering)
Salinas Castillo, Cristian Andres	Poster #1062: 7/30 @ 10:30-11:30am	Molecular and Physiological Characterization of a Trichoderma Isolate from Peru	Gabriela Gomez Langebeck [†] (Agriculture)
Salvas, John Patrick	Poster #1229: 7/30 @ 12:00-1:00pm	2D and 4D Ultrasound Assessment of Ejection Fraction in an Empagliflozin-Treated Murine Model of Duchenne Muscular Dystrophy	Olivia Bell [†] (Engineering) Alekh Pratish Shah [‡] (Engineering) Xavier Thomas Cedric Tribout [‡] (PWL)
Samanta, Bipasa	Talk #7087: 7/30 @ 3:40pm	Structural and Electronic Investigation of ACIGS Chalcopyrites using Density Functional Theory	Yutika Vasudeo Sawant [†] (Science JMHC)
Samperton, Eric	Poster #1247: 7/30 @ 12:00-1:00pm	Q-JSR: A Hybrid Classical-Quantum Framework for Multi-Class Instance Segmentation in Aerial Imagery	Arsh Gupta [†] (Science) Connor Siurek [†] (Science)
Samperton, Eric	Poster #1279: 7/30 @ 12:00-1:00pm	Q-JSR: A Hybrid Classical-Quantum Framework for Multi-Class Instance Segmentation in Aerial Imagery	Connor Siurek [†] (Science) Arsh Gupta [†] (Science)
Sandhage, Kenneth H	Poster #1077: 7/30 @ 10:30-11:30am	Creating Connected Pathways in Iron: Engineering Interconnected Porous Networks Through Magnesiothermic Reduction	Emily Danielle Kushner [†] (Engineering) Helen Sophia Brzozowski* (Engineering)

Name	Presentation	Title	Students
Sandhage, Kenneth H	Poster #1408: 7/30 @ 1:30-2:30pm	Nickel Powder and Foil with Reaction-Synthesized Porous Surfaces	Helen Sophia Brzozowski† (Engineering) Emily Danielle Kushner* (Engineering)
Sanford, Laura Mae	Poster #1092: 7/30 @ 10:30-11:30am	Exploring the Structure and Function of Ceg14, a Legionella pneumophila Effector Protein, and its Binding Partners	Isabel M Owens† (Science)
Sanjuan, Luis	Poster #1424: 7/30 @ 1:30-2:30pm	Tumor Stromal Targeting – PDAC Tissue-Mimicking Phantom	Leonardo Isaac de Medeiros† (Engineering)
Sankaranarayanan, Karthik	Talk #9023: 7/27-7/31 virtually	Heuristic-Based Chemoenzymatic Retrosynthesis Planner for Complex Chemicals in Drug Manufacturing	Sahil Yadav† (PWL)
Santiago-Vargas, Alex	Poster #1260: 7/30 @ 12:00-1:00pm	Automated Radio Evaluation Suite: Modular Testing Architecture	Joseph Timothy Krittenbrink† (Engineering)
Santiago-Vargas, Alex	Poster #1458: 7/30 @ 1:30-2:30pm	Analysis of Fast Tuning Methods for Cross Coupled Resonator Cavity Filters	Peter Robertson Skrdla† (Engineering) Joseph Timothy Krittenbrink* (Engineering)
Sapperstein, Molly H	Poster #1314: 7/30 @ 12:00-1:00pm	A systematic review of EEG research on error processing in schizophrenia	Seona James Mathew† (PWL) Lorelei Estella ro Fletcher† (JMHC) Morgan Denae Furlow† (Science)
Saraswat, Dharmendra	Poster #1098: 7/30 @ 10:30-11:30am	A Foundation Model Approach to Crop Monitoring and Agroecosystem Analytics	Udaiveer Singh† (Agriculture Engineering)
Saraswat, Dharmendra	Poster #1242: 7/30 @ 12:00-1:00pm	Geographic Robustness for Agricultural Earth Observation Foundation Models through Post-Hoc Adaptation	Akshith Garapati† (Engineering)
Saraswat, Dharmendra	Poster #1405: 7/30 @ 1:30-2:30pm	ABETutor: Domain-Constrained AI Tutoring System	Paridhi Agarwal† (Engineering) Akshith Garapati* (Engineering)
Sarkar, Shubhonil	Poster #1414: 7/30 @ 1:30-2:30pm	Utilizing AC Field-Generated Pearl Chains to Deter Early-Stage Biofilm Formation	John G Christian† (Engineering)
Sarnaik, Devendra Nikhil	Poster #1518: 7/30 @ 1:30-2:30pm	Designing Microfluidic Chips for Accurate Neutralizing-Antibody Capture Using Magnetophoresis	Maia Stef-Praun† (Engineering)
Sathisaran, Umamaheswari	Talk #7059: 7/30 @ 1:40pm	Developmental Neurotoxicity of Trifluoroacetic Acid (TFA): Oxidative Stress and Neurotransmitter Responses in Zebrafish	Maxwell J Gootee† (HHS Liberal Arts JMHC) Agampreet Kaur‡ (HHS JMHC)
Saunders, Roger	Poster #1411: 7/30 @ 1:30-2:30pm	Investigating the Role of Neutral Hydroxyl Groups and Sodium on Aluminum Siting in MFI Synthesis	Anna S Chambers† (Engineering)
Sayam, Abu Sayed Mohammed	Talk #7064: 7/30 @ 2:20pm	Miniaturizing X-Ray Fluorescence Spectroscopy Through Simulation-Driven Vacuum Chamber Design	Ashwin Natarajan†
Sayed Ahmed, Mahmoud Adel Mohamed	Poster #1311: 7/30 @ 12:00-1:00pm	Novel Therapeutic Advancements Against Enterococcal Infection	Olivia Lucille Kimmick† (Science) Alessia Lin Heiser† (Science)
Scarpelli, Matthew Louis	Poster #1252: 7/30 @ 12:00-1:00pm	Evaluating Grid Collimator Spatial Configurations to Maximize Bystander Effects in Spatially Fractionated Radiation Therapy	Kenli Hetrick† (HHS) Pia Kapur‡ (Centers & Institutes)
Schaekel, Isabelle	Talk #7033: 7/30 @ 12:00pm	Sustainable Manufacturing of Aerospace Composite Structures using High-performing Bio-based Epoxy Systems	Luis Mariano Avalos Campa† (Science)
Schellhase, Ellen M	Talk #7036: 7/30 @ 12:00pm	Review of Current Nursing Practice Regarding Phosphate Replacement Therapy Administration in an Intensive Care Environment	Caihla Timbang† (Pharmacy JMHC)

Students' Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Schellhase, Ellen M	Talk #9007: 7/27-7/31 virtually	A Medication Safety Analysis of Delayed Critical Medication Administration	Peyton Rose Collier† (Pharmacy)
Schellhase, Ellen M	Talk #9010: 7/27-7/31 virtually	Audit of Use of Enoxaparin for Off Label Indications Post Cardiac Surgery	Kylie Elizabeth Hall† (Pharmacy)
Schellhase, Ellen M	Talk #9013: 7/27-7/31 virtually	Analysis of Interventions made by Specialist Pharmacists during Annual Review of Cystic Fibrosis Patients	Emma Claire Kruyer† (Pharmacy)
Schellhase, Ellen M	Talk #9014: 7/27-7/31 virtually	Anthracycline Maximum Lifetime Doses and Cardiotoxicity Risk Assessment Tools	Jessica Anna Malecki† (Pharmacy)
Schellhase, Ellen M	Talk #9021: 7/27-7/31 virtually	Analysis of Semaglutide Eligibility in Hospitalized Patients Receiving High Intensity Statins	Brooke Thornburg† (Pharmacy JMHC)
Schmitt, Douglas R	Poster #1487: 7/30 @ 1:30-2:30pm	Seismic survey of the Kentland Impact Structure	Ivana Naomi Bilic† (Science)
Schmitt, Douglas R	Poster #1520: 7/30 @ 1:30-2:30pm	Micro-CT Imaging and Segmentation of Chicxulub Impactite Samples	Devikaa Prashant Thakker† (Engineering)
Schroeder, Mariel	Talk #7017: 7/30 @ 11:40am	Building Morphosyntactic Networks for Precision Assessment and Intervention in Preschool-aged Children	Ronald Liu Tsai† (Liberal Arts Science)
Schulte, Jan-Frederik	Poster #1120: 7/30 @ 10:30-11:30am	Search for HH → bbt ⁺ τ ⁻ Using Run 3 Scouting Data – Analyze Tagging Performances with Unified Particle Transformer	Qianyue Chen† (PWL) Annella Bellot* (PWL)
Schulte, Jan-Frederik	Talk #7027: 7/30 @ 11:00am	Tau-Jet Matching and Tag-and-Probe Tau Tagging Efficiencies for HH→bbt ⁺ τ ⁻ Searches Using Run 3 CMS Scouting Data	Annella Bellot† (PWL) Qianyue Chen* (PWL)
Sciascia Borlina, Caue	Poster #1230: 7/30 @ 12:00-1:00pm	Developing a Cave Virtual Reality Application for Geoscience Education using Collaborative Design to Establish Learning Goals	Anushka Bhavet† (Polytechnic) Hiya Samanta‡ (Science)
Sciascia Borlina, Caue	Poster #1277: 7/30 @ 12:00-1:00pm	Evaluating LiDAR Parameters for Immersive and Educational VR Cave Environments	Hiya Samanta† (Science) Anushka Bhavet‡ (Polytechnic)
Searle, Catherine L	Talk #7061: 7/30 @ 2:20pm	A Looking Glass Into the Future of Disease in a Warmer World: Susceptibility to Metschnikowia bicuspidata Infection in Daphni	Ana Martinez† (Science)
Segvich, Dyann Marie	Poster #1419: 7/30 @ 1:30-2:30pm	Assessment of Quantity- and Quality-Related Skeletal Properties in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes	Ava Fuchs† (Engineering) Isabelle Anne Hunt‡ (Engineering) Jennifer Marie Bowles‡ (Engineering) Sachenka Katrina Angel Aranguena‡ (Engineering)
Segvich, Dyann Marie	Talk #7060: 7/30 @ 2:00pm	Characterizing Structural and Mechanical Femoral Outcomes in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes	Isabelle Anne Hunt† (Engineering) Ava Fuchs‡ (Engineering) Sachenka Katrina Angel Aranguena‡ (Engineering) Jennifer Marie Bowles‡ (Engineering)
Seiger, Emily Rebekah	Poster #1237: 7/30 @ 12:00-1:00pm	Iron Status, Cognitive Function, and Quality of Life in Perimenopausal Women: Baseline Findings from an Intervention Study	William Thomas Covington†
Sengupta, Abhinanda	Poster #1103: 7/30 @ 10:30-11:30am	Role of Moisture on the Thermal Stability of Sodium-Ion Batteries	Abhaya Sundar† (Engineering Science)

Students' Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Senthil Raj, Nithin Raj	Poster #1423: 7/30 @ 1:30-2:30pm	Bone-Targeted Radioligand Therapy for Multiple Myeloma	Juyeon Im† (Science) Yunsuk Lee‡ (HHS) Tara Ruslen Blanc‡ (Science)
Seo, Hyewon	Poster #1310: 7/30 @ 12:00-1:00pm	Cognitive Effects of Exoskeleton Use on Hazard Identification Performance in Construction Workers	Ahmed Khan† (Engineering)
Sepanloo, Kamelia	Talk #7082: 7/30 @ 3:20pm	Process-Level Digital Twin Guide for Flow Optimization and Interoperability in a Semiconductor Backend Manufacturing Plant	Ana Susana Deng Guan† (PWL)
Sepulveda, Maria Soledad	Poster #1118: 7/30 @ 10:30-11:30am	Exploratory Analysis of Plasma Lipid Profiles in Largemouth Bass Across a PFAS Exposure Gradient	Maria Jose Suarez Monroy† (PWL)
Sepulveda, Maria Soledad	Poster #1508: 7/30 @ 1:30-2:30pm	Exploring methods of Staghorn Coral (<i>Acropora cervicornis</i>) outplant monitoring off the coast of Utila, Honduras	Ashlynn R McLaughlin† (Agriculture)
Shalae, Vladimir M	Poster #1267: 7/30 @ 12:00-1:00pm	Orientation Dependent Excitonic Coupling and Purcell Enhancement in MoOCl ₂ -TMDC Heterostructures	Ryan Y Manley† (Engineering)
SHARMA, PIYUSH	Poster #1433: 7/30 @ 1:30-2:30pm	LLM-Guided Evolutionary Discovery of Reaction Networks from Transient Data via Programmatic Search and Nonlinear Optimization	Leland Li† (Engineering)
Sharma, Shivam	Poster #1454: 7/30 @ 1:30-2:30pm	Evaluation of SpeedBox Connection Strength	Chris Schoenherr† (Polytechnic)
Shashurin, Alexey	Poster #1283: 7/30 @ 12:00-1:00pm	Characterization of Cathodic Arc Neutralization for Hall-Effect Thruster Beams	Christopher Robert Stemporzewski† (Engineering)
She, Yu	Poster #1443: 7/30 @ 1:30-2:30pm	Dexterous Manipulation Benchmark	Khoa Duc Khoa Nguyen†
She, Yu	Talk #7041: 7/30 @ 12:40pm	Photoelastic Gel Pad for Vision-Based Tactile Sensing	Samuel Timothy Bibeau† (Engineering)
Shen, Jingqiao	Poster #1249: 7/30 @ 12:00-1:00pm	When the Brakes Come Off: Investigating Role of CSK in Stem-Cell Growth and Blood Development	Ananya Hegde† (Engineering)
Shi, Pengyi	Talk #9005: 7/27-7/31 virtually	Beyond Accuracy: A Calibrated Instrument for Certifying the Trustworthiness of LLM-Generated Clinical Hypotheses	Utkarsh Bali† (DSB) Xuanyu Chen† (Science)
Shi, Riyi	Poster #1091: 7/30 @ 10:30-11:30am	Investigating Acute Responses to Mild Blast Traumatic Brain Injury in an in vitro Human Tau-Expressing Neuronal Model	Natalia Nino Cocoma† (Vet Med)
Shi, Riyi	Poster #1124: 7/30 @ 10:30-11:30am	Differential Vulnerability of Excitatory and Inhibitory Synapses to Acrolein-Mediated Oxidative Damage	Maheen Syed† (Engineering) John Pao Miles* (Liberal Arts)
Shin, Hosop	Poster #1088: 7/30 @ 10:30-11:30am	Selective Delamination of Lithium-Ion Battery Cathodes Using Mild Alkaline System for Direct Recycling	Sohyun Moon† (Engineering)
Shin, Hosop	Poster #1466: 7/30 @ 1:30-2:30pm	Optimization of solvent based direct recycling for electrode delamination	Ty Richard Yaguchi† (Engineering)
Shoaf, Trevor Jaan	Poster #1087: 7/30 @ 10:30-11:30am	A Tuberculosis Infection and Treatment ODE Model Investigating the Pharmacodynamics of Inhaled Antibiotics on Human Granuloma	Aidan Josef Monark† (Engineering)
Shreekumar, Jayanth	Talk #7009: 7/30 @ 10:00am	Vision-Based Runway Detection	Kabir Jain† (Science)

Name	Presentation	Title	Students
Siahkali, Farbod	Poster #1001: 7/30 @ 10:30-11:30am	Conformal Safety for Multimodal Fusion via Optimal-Transport Alignment	Eric Huang [†] (Engineering)
Siegel, Amanda P	Poster #1305: 7/30 @ 12:00-1:00pm	Sustainable Additive Manufacturing Using Thermoplastic Starch Bioplastic Filament	Basil Alojant [†] (Engineering)
Siegel, Amanda P	Poster #1313: 7/30 @ 12:00-1:00pm	Comparative Study of AI Agent Team Structures for Engineering Problem Solving	Andrew Yicheng Li [†] (Engineering)
Siegel, Amanda P	Poster #1315: 7/30 @ 12:00-1:00pm	Effects of Drying Time and Plasticizer Content on Thermoplastic Starch Adhesive Strength	Milagros Melhem Bertagnit [†] (PWL)
Siegmund, Thomas H	Poster #1058: 7/30 @ 10:30-11:30am	A Semi-Automated Pipeline for Generating Finite Element Models of Plant Cells from Confocal Microscopy	Guilherme de Souza Correat [†] (Engineering)
Sim, Yuseop	Poster #1049: 7/30 @ 10:30-11:30am	Acoustic Detection of Tool Changes in CNC Milling via Deep Learning	Minseong An [†]
Simonson, Andrew James	Poster #1417: 7/30 @ 1:30-2:30pm	Identifying the Role of Platinum in Decreasing Methanization during Polymer Upcycling on Bimetallic RuPt Alloy Catalysts	Renee Duant [†] (Engineering)
Sinelli, Alexander Gregory	Poster #1294: 7/30 @ 12:00-1:00pm	Analysis of Laser Wakefield Acceleration and the Beam-Loading Effect in Higher Dimensions	Keegan M Kita [†] (Science)
Sinelli, Alexander Gregory	Poster #1296: 7/30 @ 12:00-1:00pm	Developing a Gate Boosted Pulse Generator to Drive Gas Discharge Tube Based Nonlinear Transmission Line System	Luke Alexander Trahin [†] (Engineering) Samuel Christian Olenick* (Engineering)
Singh, Richa	Talk #7072: 7/30 @ 2:00pm	City Sounds: How Increasing Noise Impacts the Host-Seeking Behavior of a Frog-Biting Mosquito	Nina Rose Hall [†] (Science)
Sintim, Herman O	Poster #1482: 7/30 @ 1:30-2:30pm	Regulation of bone remodeling through co-delivery of STING antagonist and phenamil nanocarriers.	Abigail Catherine Alexandert [†] (Vet Med)
Smart, Mary Anne	Poster #1495: 7/30 @ 1:30-2:30pm	AI Aversion in Students' Perceptions of Code Quality	Matthew Tomasz Galej [†] (PWL)
Smilanich, Gordon Carl	Poster #1485: 7/30 @ 1:30-2:30pm	Reproducibility and accuracy of thigh musculature volumetric data analysis derived from axial MRI scans: 3D Slicer vs. Horos	Jacob Bastiant [†] (PWL)
Smith, Daniel T	Poster #1023: 7/30 @ 10:30-11:30am	Investigating Solvent and Processing Effects on ROY Polymorph Crystallization for Pharmaceutical Intermediate Purification	Andrew Lucas Freuman [†] (Agriculture Engineering) Bailey Elizabeth Freese [‡] (Engineering Vet Med) Annalise Irene Coyne [‡] (Agriculture Engineering JMHC) Jose Luis Melendez [‡] (Agriculture Engineering)
Smoak, Cassandra	Poster #1204: 7/30 @ 12:00-1:00pm	Evaluation of the Putative ADAR1 Inhibitors, ADAR1i-124 and NAG638	Savannah Doty [†] (Grand Canyon University) Estelle Nour Gardner [‡] (Agriculture)
Solanki, Abhishek Bharatbhai	Poster #1267: 7/30 @ 12:00-1:00pm	Orientation Dependent Excitonic Coupling and Purcell Enhancement in MoOCl ₂ -TMDC Heterostructures	Ryan Y Manley [†] (Engineering)
Solorio, Luis	Poster #1254: 7/30 @ 12:00-1:00pm	Effect of Delivery Methods of Hyaluronidase on Enzymatic Degradation of Hyaluronic Acid	Mia Alexandra Jensen [†] (Engineering)
Solorio, Luis	Poster #1424: 7/30 @ 1:30-2:30pm	Tumor Stromal Targeting – PDAC Tissue-Mimicking Phantom	Leonardo Isaac de Medeiros [†] (Engineering)

Students' Role Notations: [†]Presenting Author, [‡]Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Son, Steven F	Poster #1064: 7/30 @ 10:30-11:30am	Geometric Control of Drug Release in Additively Manufactured Dosage Forms Using Vibration-Assisted Printing	Vincent John Graciano† (Engineering)
Son, Young-Jun	Talk #7082: 7/30 @ 3:20pm	Process-Level Digital Twin Guide for Flow Optimization and Interoperability in a Semiconductor Backend Manufacturing Plant	Ana Susana Deng Guan† (PWL)
Song, Yingru	Poster #1475: 7/30 @ 1:30-2:30pm	Measuring degradation of Thermal Interface Materials	Richard Zhixiong Li† (Engineering)
Sotelo, Luz	Poster #1233: 7/30 @ 12:00-1:00pm	Additive Manufacturing of Transverse Flutes	Anirud Chakkarapani† (Engineering) Mirza Orunav Shahper* (Engineering)
Specht, Aaron James	Talk #7064: 7/30 @ 2:20pm	Miniaturizing X-Ray Fluorescence Spectroscopy Through Simulation-Driven Vacuum Chamber Design	Ashwin Natarajan†
Srinivasarao, Madduri	Poster #1509: 7/30 @ 1:30-2:30pm	Claudin-4 as a Target for Fluorescent Surgical Imaging of Metastatic Cancer	Noah Miller† (PWL) Beatrice V Dias‡ (Science) Laurel Frances Tayloe‡ (Science)
Stanciu-Gregory, Lia A	Poster #1518: 7/30 @ 1:30-2:30pm	Designing Microfluidic Chips for Accurate Neutralizing-Antibody Capture Using Magnetophoresis	Maia Stef-Praun† (Engineering)
Stapley, Emma Dell	Poster #1297: 7/30 @ 12:00-1:00pm	Effects of Equine Pituitary Pars Intermedia Dysfunction on Forelimb Bone Mineral Density and Calculated Bone Strength	Teegan Acres† (Purdue University)
Stefancik, Jennifer L	Poster #1307: 7/30 @ 12:00-1:00pm	Using Community-Based Art Activities to Support Psychosocial Wellbeing Among Immigrant Youth: A Four-Week Pilot Study	Aarushi Gupta† (Science)
Stolzenbach, Kathryn	Poster #1304: 7/30 @ 12:00-1:00pm	Collective Memory in Bacterial Communities: Could It Help Reverse Antibiotic Resistance?	Israel Adenuga† (Homewood-Flossmoor High School) Alessandra Orr† (Homewood-Flossmoor High School) Jolissa Abeht† (Homewood-Flossmoor High School)
Stornello, Dean Evan	Poster #1056: 7/30 @ 10:30-11:30am	Modulation of Mechanical, Injectable and Degradation Characteristics of MMP Cleavable Microgels to Advance Tissue Repair	Daniel Chi Hsien Chen Sandi† (Engineering)
Strachan, Alejandro H	Poster #1104: 7/30 @ 10:30-11:30am	The Impact of Colliding Deflagration Waves	Likhita Tinga† (Engineering)
Strachan, Alejandro H	Poster #1226: 7/30 @ 12:00-1:00pm	Radiation Cascade Studies in GST-C Using Molecular Dynamics	Agustin Abt† (Engineering) Aryan Rauniyar‡ (Engineering)
Strachan, Alejandro H	Poster #1262: 7/30 @ 12:00-1:00pm	AURAMCP: Enhancing nanoHUB's FAIR Workflows and Data through MCP Servers	Yoon gi Lee† (Engineering)
Strachan, Alejandro H	Poster #1295: 7/30 @ 12:00-1:00pm	Radiation Cascade Simulations in GST-C Using Molecular Dynamics	Aryan Rauniyar† (Engineering) Agustin Abt† (Engineering)
Strachan, Alejandro H	Talk #7063: 7/30 @ 2:00pm	Mapping the Stacking and Surface Chemistry Landscape of MXenes and Metal Carbides via DFT and Molecular Dynamics	Samiya Balu† (Engineering) Sahana Mukund‡ (Science)
Su, Elizabeth Tarami	Poster #1446: 7/30 @ 1:30-2:30pm	Spatial Optimization of Intracortical Ultramicroelectrode Stimulation	Evelynn Marie Papez† (Engineering) [JMHC]
Subbarayan, Ganesh	Poster #1442: 7/30 @ 1:30-2:30pm	A Comparative Evaluation of Machine Learning Models for Heat Conduction Problems	Malavika Nair† (Engineering)
Subbarayan, Ganesh	Talk #7058: 7/30 @ 1:20pm	High-Resolution Thermal Warpage Measurement Using 3D Laser Vibrometry and Optical Profilometry	Ishaan Brar† (Engineering)

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Name	Presentation	Title	Students
Subramanian, Ramaswamy	Talk #7038: 7/30 @ 12:40pm	Comparing B-Factors and Local Resolution as Metrics of Cryo-EM Protein Structure Quality	Jalynn Somerville† (PWL) Angel Ortiz‡ (PWL)
Subramanyam, Subhashree	Poster #1312: 7/30 @ 12:00-1:00pm	Deciphering physiological and molecular insights in heat-resilient insect-resistant wheat for sustainable agriculture	Jada E Laskowski† (Agriculture)
Sun, Yao	Poster #1060: 7/30 @ 10:30-11:30am	A Real-Time Digital Twin Framework for Temperature Monitoring and Feedback Control in Automated Fiber Placement	Hongsen Fang† (Engineering) Rohan Kelkar* (Engineering)
Sun, Yao	Poster #1257: 7/30 @ 12:00-1:00pm	Laser-Profilometry-Driven Digital Twin System for Defect Detection during Automated Fiber Placement	Rohan Kelkar† (Engineering) Hongsen Fang‡ (Engineering)
Sundaram, Shreyas	Talk #7043: 7/30 @ 12:20pm	Evaluation of Control Strategies for Drone Path Tracking and Cooperative Multi-Agent Exploration of Indoor Environments	Ediz Guzey† (PWL)
Suter, Daniel	Poster #1284: 7/30 @ 12:00-1:00pm	Identifying Drug Treatments for Functional Recovery After Spinal Cord Injury in Zebrafish	Raveena Venkateshwaran† (Science) Owen Joseph Jungblut‡ (Engineering) Sriyesh Senthil‡ (Science)
Szymanski, Daniel B	Poster #1058: 7/30 @ 10:30-11:30am	A Semi-Automated Pipeline for Generating Finite Element Models of Plant Cells from Confocal Microscopy	Guilherme de Souza Correia† (Engineering)
Talarico, Jr., Ernest Francis	Poster #1304: 7/30 @ 12:00-1:00pm	Collective Memory in Bacterial Communities: Could It Help Reverse Antibiotic Resistance?	Israel Adenuga† (Homewood-Flossmoor High School) Alessandra Orr† (Homewood-Flossmoor High School) Jolissa Abeht† (Homewood-Flossmoor High School)
Talarico, Jr., Ernest Francis	Poster #1308: 7/30 @ 12:00-1:00pm	Body Mass Index and Clinical Outcomes of Elderly Patients with Acute Myocardial Infarction	Thomas James Haack† (PNW)
Talarico, Jr., Ernest Francis	Poster #1317: 7/30 @ 12:00-1:00pm	CHARACTERIZATION OF MAST CELL TUMORS IN CANIS LUPUS FAMILIARIS	Samuel J Patchint† (PNW)
Talarico, Jr., Ernest Francis	Poster #1492: 7/30 @ 1:30-2:30pm	Coronary Cyclical Cardiac-based Lesion Location and Cardiovascular Risk Factors vs Severity of Right Coronary Artery Stenosis	Nha Chau† (Unknown) Quang Vo‡ (Unknown) Pham Phan‡ (Unknown) Ngoc Nguyen‡ (Unknown) Quang Hoang‡ (Unknown)
Talarico, Jr., Ernest Francis	Poster #1503: 7/30 @ 1:30-2:30pm	Left Ventricular Ejection Fraction, Right Coronary Artery Reverse Flow, and Lesion Distribution in Coronary Angiography	Khanh Le† (Unknown) Thy Le‡ (Unknown) Van Hoang‡ (Unknown) Thi Chau‡ (Unknown) Khanh Le‡ (Methodist Hospitals)
Talarico, Jr., Ernest Francis	Poster #1505: 7/30 @ 1:30-2:30pm	Understanding Coronary Artery Disease and Atherosclerosis Through the Language of Fluid Dynamics	Dhruva Magesh† (Unknown) Mateusz Wlodarczyk†
Talarico, Jr., Ernest Francis	Poster #1510: 7/30 @ 1:30-2:30pm	Association of Systolic BP and LDL Cholesterol with Retrograde Coronary Flow and Lesion Distribution in Coronary Angiography	Ngoc Nguyen† (Unknown) Thuy Nguyen‡ (Unknown) Thi Chau‡ (Unknown) Nghia Nguyen‡ (Unknown) Quang Hoang‡ (Unknown)

Name	Presentation	Title	Students
Talarico, Jr., Ernest Francis	Poster #1511: 7/30 @ 1:30-2:30pm	Wide Pulse Pressure and Reverse Flow in the Right Coronary Artery on Dynamic Coronary Angiography	Thai Nguyen† (Unknown) Sanad Ahmad‡ (Unknown) Thy Le‡ (Unknown) Quang Vo‡ (Unknown) Van Hoang‡ (Unknown)
Talarico, Jr., Ernest Francis	Poster #1512: 7/30 @ 1:30-2:30pm	Long-Term Neurocognitive Effects of Childhood Lead Exposure	Ngoc Anh T Nguyen† (PNW) Nghia Nguyen‡ (Unknown)
Talarico, Jr., Ernest Francis	Poster #1517: 7/30 @ 1:30-2:30pm	Angiographic Factor Predicting Persistent Normalization of Ejection Fraction in Dilated Cardiomyopathy	Jayden Shah† (Lake Central High School) Ngoc Anh T Nguyen† (PNW)
Talarico, Jr., Ernest Francis	Poster #1521: 7/30 @ 1:30-2:30pm	Acute Coronary Syndrome Comorbidity with Heart Failure in Elderly Patients	Vo Uyen† (Tan Tao University)
Taleyarkhan, Rusi P	Poster #1108: 7/30 @ 10:30-11:30am	Tensioned Metastable Fluid Detection for High-Efficiency Rn-222 Analysis in Drinking Water at Ultra-Trace Concentrations	Ryan James William† (Engineering)
Taleyarkhan, Rusi P	Poster #1114: 7/30 @ 10:30-11:30am	Novel, Low-Cost PLA Biopolymer Based Monitoring of Ionizing Gamma Radiation Dose for Space-Based Microelectronics	Seth Everette Cowan† (Engineering)
Taleyarkhan, Rusi P	Talk #7065: 7/30 @ 2:40pm	Comparison of Neutron Detectors and Evaluation of Shielding Materials for Space Microelectronics	Jack G Darby† (Engineering)
Tan, Lin	Poster #1222: 7/30 @ 12:00-1:00pm	Evaluating LLM Biases Across Computer Science Conferences and Institutions	Erin Rodriguez† (PWL)
Tan, Lin	Poster #1243: 7/30 @ 12:00-1:00pm	Self-Improving Agent Skills for Reproducible Scientific Simulation Workflows	Juan Garcia† (Engineering)
Tan, Shelly Guo	Talk #9011: 7/27-7/31 virtually	Low-Cost Microfluidic Devices for Live Zebrafish Imaging of Wound Healing and Immune Response	Vianca Jelu† (Science JMHC)
Tanaka, Yuto	Poster #1453: 7/30 @ 1:30-2:30pm	Bistable Auxetic Patterns and their use in non-cooperative space object detumbling	William James Rowe† (Engineering)
Tang, Xindi	Poster #1068: 7/30 @ 10:30-11:30am	Development of an AI-Assisted Workflow for Automated Analysis of Untargeted Nano-DESI Mass Spectrometry Imaging Data	Joseph Anthony Janicek† (Science)
Tanwar, Reeya	Poster #1494: 7/30 @ 1:30-2:30pm	Behavioral and Neuroinflammatory Effects of Chlorpyrifos Exposure in Pon1(-/-) and Wild-Type Rats.	Karis Ge Fu† (HHS JMHC)
Tao, Chengcheng	Poster #1008: 7/30 @ 10:30-11:30am	Experimental and Computational Study for Optimized Sustainability-Mechanical-Hydration Kinetics of Type II-Slag Cement Mortar	SOPHIA SHELDON† (Polytechnic)
Tao, Weiguo Andy	Poster #1039: 7/30 @ 10:30-11:30am	2-Dimensional Proteome Profiling for in-depth Tracking of Drug Interactions	Akhilesh Vigneshwaran† (Agriculture) Nathaniel Merrick Miller‡ (Agriculture) Yi Kai Liu‡ (Agriculture)
Tao, Weiguo Andy	Poster #1209: 7/30 @ 12:00-1:00pm	Optimization of 2-Hydroxyglutarate (2HG)-modified peptide enrichment and identification	Christopher Powell† (Agriculture)
Tegtmeyer, Matthew Thomas	Poster #1455: 7/30 @ 1:30-2:30pm	Developing a Human Astrocyte Model to Study the Role of VPS35 in Alzheimer's Disease	Leonel Baskin Sesuraj Baskin† (Science)
Tellambure Vithanage, Geethma Lirushie	Poster #1205: 7/30 @ 12:00-1:00pm	Exploring Rm62 involvement in aging as a regulator of R-loop homeostasis	Kendra Eller† (Agriculture) Louis Michael Delaby* (JMHC)

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Name	Presentation	Title	Students
Tennant, Jeremiah Harvey	Poster #1118: 7/30 @ 10:30-11:30am	Exploratory Analysis of Plasma Lipid Profiles in Largemouth Bass Across a PFAS Exposure Gradient	Maria Jose Suarez Monroy† (PWL)
Terashi, Genki	Poster #1216: 7/30 @ 12:00-1:00pm	DAQnuc: Per-Atom and Per-Residue Quality Assessment for Nucleic Acid Models from Cryo-EM Density Maps	Isaiah Philip† (PWL) Devanshi Gupta‡ (PWL)
Tesini Roseguini, Bruno	Poster #1101: 7/30 @ 10:30-11:30am	Peri-wound Microvascular Function and the Feasibility of Heat Therapy in Patients with Neuroischemic Foot Ulcers: Pilot Study	Robert Scott Sorensen† (HHS)
Tesmer, John	Poster #1215: 7/30 @ 12:00-1:00pm	Structural and Functional Insights into the Potent and Selective Inhibition of G Protein-Coupled Receptor Kinase 6	Tyler Paine† (PWL)
Thach, Trung T.	Talk #7038: 7/30 @ 12:40pm	Comparing B-Factors and Local Resolution as Metrics of Cryo-EM Protein Structure Quality	Jalynn Somerville† (PWL) Angel Ortiz‡ (PWL)
Thakkar, Dutt Jagdish	Poster #1116: 7/30 @ 10:30-11:30am	MAPPING PHYSICAL VULNERABILITIES IN GLOBAL SEMICONDUCTORS VALUE CHAINS	Angie Ginnella Batista† (DSB) Juan Pablo Rodriguez Lopez† (DSB)
Thakkar, Dutt Jagdish	Talk #7046: 7/30 @ 1:20pm	Risk Exposure of U.S. Industry Sectors to Oil Price Shocks	Santiago Melo Munoz† (Engineering)
Theurer, Savannah Lee	Poster #1302: 7/30 @ 12:00-1:00pm	Impact of Chronic Variable Stress on Neurobehavioral Function Following DMM Surgery in Mice.	Xander L Tuttle† (Vet Med)
Thompson, David	Poster #1067: 7/30 @ 10:30-11:30am	Development of an Efficient, Synthetic Pathway for Large Scale Atipamezole Manufacturing	Kira Howet† (Science)
Titus, Michael	Poster #1481: 7/30 @ 1:30-2:30pm	Dissolution Behavior of the γ' -phase in the HAYNES® 233® alloy Ni-Base Superalloy	Maria Alejandra Saavedra Mogotocoro† (PWL) Ian Edward Bowley‡ (Engineering)
Tiwari, Anand D	Poster #1200: 7/30 @ 12:00-1:00pm	Service Life Assessment of Additively Manufactured Carbon Fiber Reinforced Thermoplastic Composite Tooling	Changho Lee† (Centers & Institutes)
Tokpatayeveva, Raikhan	Talk #7079: 7/30 @ 3:20pm	Investigating Performance of Nanosilica and Non-traditional and Natural Pozzolans in Type II Cementitious systems	Aryan Daga† (Engineering)
Tovar, Andres	Poster #1305: 7/30 @ 12:00-1:00pm	Sustainable Additive Manufacturing Using Thermoplastic Starch Bioplastic Filament	Basil Alojant† (Engineering)
Tovar, Andres	Poster #1313: 7/30 @ 12:00-1:00pm	Comparative Study of AI Agent Team Structures for Engineering Problem Solving	Andrew Yicheng Li† (Engineering)
Tovar, Andres	Poster #1315: 7/30 @ 12:00-1:00pm	Effects of Drying Time and Plasticizer Content on Thermoplastic Starch Adhesive Strength	Milagros Melhem Bertagnit† (PWL)
Trabert, Leonie Marie	Poster #1045: 7/30 @ 10:30-11:30am	Modulating MicroRNA Expression to Elucidate Their Roles in Soybean Nodulation Using a Hairy Root System	Makenna Wevick† (Unknown)
Troy, Cary D	Poster #1224: 7/30 @ 12:00-1:00pm	High-Resolution Monitoring of the Lake Michigan Shoreline Position Using Orthorectified Camera Imagery	Abner Obed Ruiz Pérez† (PWL)
Trumble, Kevin P	Poster #1077: 7/30 @ 10:30-11:30am	Creating Connected Pathways in Iron: Engineering Interconnected Porous Networks Through Magnesiothermic Reduction	Emily Danielle Kushner† (Engineering) Helen Sophia Brzozowski* (Engineering)

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Name	Presentation	Title	Students
Trumble, Kevin P	Poster #1408: 7/30 @ 1:30-2:30pm	Nickel Powder and Foil with Reaction-Synthesized Porous Surfaces	Helen Sophia Brzozowski† (Engineering) Emily Danielle Kushner* (Engineering)
TS, Shyamkumar	Poster #1319: 7/30 @ 12:00-1:00pm	BMP4-mediated induction of trophoblast stem cell identity from bovine embryonic stem cells	Aditya Pillai† (Science JMHC)
Tucker, Michelle L	Poster #1300: 7/30 @ 12:00-1:00pm	Segmentation and Validation of Computed Tomography Scan Measurements on Equine Laryngeal Cartilages	Vianca A. Rios Brito† (PWL)
Uddin, Muhammad Sharif	Poster #1436: 7/30 @ 1:30-2:30pm	Understanding the Optical Properties of MXenes	Vedha Masuraha† (Engineering Liberal Arts)
Ulate, Christopher Antonio	Talk #7028: 7/30 @ 11:20am	Inert-Atmosphere Assembly of Encapsulated Air-Sensitive vdW Heterostructures with Machine-Learning Layer Identification	Manaswini Singh† (Science) Priya Mishra‡ (Science) Sagarika Menon‡ (Science)
Ullah, Rizwan	Poster #1425: 7/30 @ 1:30-2:30pm	Development of an Endothelial Microfluidic Chip Model as a Platform for Drug Delivery Studies in Cancer	Delfina B Jackson† (Engineering)
Ulmer, Grace	Poster #1486: 7/30 @ 1:30-2:30pm	Evaluating Wi-Fi Signal Strength in Residential Environments: The effects of building materials and appliance interference	Akshita Bhavanishankar† (Engineering)
Ulmer, Michelle S	Talk #9015: 7/27-7/31 virtually	A Simulated Comparison of Propulsor Placement in Cargo Planes Implementing Boundary Layer Ingestion	Maximilianne Manuell† (Engineering JMHC)
Umulis, David M	Poster #1259: 7/30 @ 12:00-1:00pm	Imaging and analysis of pSmad signaling following optogenetic BMP activation in zebrafish embryogenesis	Emma M Kindwall† (Engineering)
Umulis, David M	Poster #1410: 7/30 @ 1:30-2:30pm	Complex biological process modelling using Bayesian Optimization	Eeshwar Ram Chalasani† (Engineering)
Uyeda, Christopher H	Poster #1265: 7/30 @ 12:00-1:00pm	Skip Diene Synthesis Through Reductive Heck-Type Reactions	Ailuen Liu† (Science)
Uzokboev, Shakhzodjon	Poster #1209: 7/30 @ 12:00-1:00pm	Optimization of 2-Hydroxyglutarate (2HG)-modified peptide enrichment and identification	Christopher Powell† (Agriculture)
van der Berg, Mine Rouxna	Poster #1022: 7/30 @ 10:30-11:30am	Utilizing Biochar and AMF Partnerships to mitigate Heavy Metal Contamination in Soil	Reuben Joshua De Dios† (Agriculture Engineering)
van der Berg, Mine Rouxna	Poster #1062: 7/30 @ 10:30-11:30am	Molecular and Physiological Characterization of a Trichoderma Isolate from Peru	Gabriela Gomez Langebeck† (Agriculture)
Van Dyke, Megan K	Poster #1051: 7/30 @ 10:30-11:30am	Identifying Fatigue Indicators in Cyclists' Bodies Over Time: A Kinematic and Subjective Multi-Modal Pilot Study	David Felipe Arguello Patino† (Engineering) Adam James Sullivan‡ (Engineering)
Vancells Lopez, Laia	Poster #1506: 7/30 @ 1:30-2:30pm	A Low-Cost Readout Circuit for Real-Time Protein Sensing Using Electrochemical Impedance Spectroscopy	Aditi Magesh† (Engineering JMHC)
Vancells Lopez, Laia	Talk #9018: 7/27-7/31 virtually	A Stability-Aware Machine Learning Framework for Immune-Related Prognostic Gene Signatures in Breast Cancer Relapse	Ramya Prasanna† (Science JMHC)

Name	Presentation	Title	Students
Vanegas Torres, Adriana	Poster #1034: 7/30 @ 10:30-11:30am	Effectiveness of Household Sanitizers for Reducing Salmonella enterica serovar Newport on Fresh Produce	Alexandra Susan Revivot† (Agriculture)
Varma, Amit	Poster #1454: 7/30 @ 1:30-2:30pm	Evaluation of SpeedBox Connection Strength	Chris Schoenherr† (Polytechnic)
Venkatesan, Sowmiya Devi	Poster #1498: 7/30 @ 1:30-2:30pm	Protein-protein interactions among pollen tube reception regulators	Andrea Carmen Jacobson† (Agriculture Science)
Verduzco Gastelum, Juan Carlos	Poster #1262: 7/30 @ 12:00-1:00pm	AURAMCP: Enhancing nanoHUB's FAIR Workflows and Data through MCP Servers	Yoon gi Lee† (Engineering)
Vesey, Keira	Poster #1056: 7/30 @ 10:30-11:30am	Modulation of Mechanical, Injectable and Degradation Characteristics of MMP Cleavable Microgels to Advance Tissue Repair	Daniel Chi Hsien Chen Sandi† (Engineering)
Vijayan Pillai, Viju	Poster #1319: 7/30 @ 12:00-1:00pm	BMP4-mediated induction of trophoblast stem cell identity from bovine embryonic stem cells	Aditya Pillai† (Science JMHC)
Villez, Kris	Talk #7005: 7/30 @ 10:40am	Graph-Theoretic Observability and Redundancy Analysis for Large-Scale Water Treatment and Distribution Systems	Mihir Samanyu Talamudipi† (Engineering)
Vu, Loc	Poster #1521: 7/30 @ 1:30-2:30pm	Acute Coronary Syndrome Comorbidity with Heart Failure in Elderly Patients	Vo Uyen† (Tan Tao University)
Wagers, Sarah Gustafson	Poster #1057: 7/30 @ 10:30-11:30am	Experimentally Probing Mechanistic Differences in Toluene Methylation with Methanol and Dimethyl Ether within H-MFI zeolite	Brendan Edward Crump† (Engineering)
Wagers, Sarah Gustafson	Poster #1238: 7/30 @ 12:00-1:00pm	Investigating the Role of Lithium During FAU-to-CHA Inter-Zeolite Conversion	Sylvia Isabella Diaz† (Engineering) Sarah E Mollan‡ (Engineering)
Wagers, Sarah Gustafson	Poster #1411: 7/30 @ 1:30-2:30pm	Investigating the Role of Neutral Hydroxyl Groups and Sodium on Aluminum Siting in MFI Synthesis	Anna S Chambers† (Engineering)
Wagers, Sarah Gustafson	Poster #1460: 7/30 @ 1:30-2:30pm	Methods to control zeolite framework atom removal and insertion in varying environments within the MFI topology	Kaylani Le'mae Tomlin† (Engineering)
Wagers, Sarah Gustafson	Talk #7056: 7/30 @ 1:40pm	Investigating Zinc Incorporation During Zn-MFI Synthesis for Fuel and Chemical Production	Alana N White† (Engineering)
Wagner, Dane Christophe	Poster #1514: 7/30 @ 1:30-2:30pm	Low pH Exposure Alters Mediator Response in Poly(o-phenylenediamine)-Based Molecularly Imprinted Polymer Sensors	Amanda Rodriguez-Gonzalez† (Engineering) Keeley Vonne Farmer* (Science) Ali Jo Crouse* (Science)
Waiker, Digambar Kumar	Talk #7074: 7/30 @ 2:40pm	Optimization of a Folate Conjugated Fully Modified miR-34a for Enhanced Stability, Uptake, and Activity	Aindri Abhishek Singh† (PWL)
Wainwright, Dylan Kenji	Poster #1244: 7/30 @ 12:00-1:00pm	Coated in slime: the physical properties of skin mucus across fish species	Gabriela Garcia Cardenas† (Science)
Walia, Nidhi	Poster #1207: 7/30 @ 12:00-1:00pm	Targeting ASC Filament Formation as a Therapeutic Strategy for Alzheimer's Disease	Erwin Kingston† (Agriculture)
Walimuni Dewage, Govindi Soba Rashmiraji	Poster #1068: 7/30 @ 10:30-11:30am	Development of an AI-Assisted Workflow for Automated Analysis of Untargeted Nano-DESI Mass Spectrometry Imaging Data	Joseph Anthony Janicek† (Science)

Name	Presentation	Title	Students
Wallace, Joseph	Poster #1419: 7/30 @ 1:30-2:30pm	Assessment of Quantity- and Quality-Related Skeletal Properties in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes	Ava Fuchs [†] (Engineering) Isabelle Anne Hunt [‡] (Engineering) Jennifer Marie Bowles [‡] (Engineering) Sachenka Katrina Angel Aranguena [‡] (Engineering)
Wallace, Joseph	Talk #7060: 7/30 @ 2:00pm	Characterizing Structural and Mechanical Femoral Outcomes in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes	Isabelle Anne Hunt [†] (Engineering) Ava Fuchs [‡] (Engineering) Sachenka Katrina Angel Aranguena [‡] (Engineering) Jennifer Marie Bowles [‡] (Engineering)
Walther, Rheanna Elizabeth	Poster #1218: 7/30 @ 12:00-1:00pm	Characterizing the Role of Mouse Granzyme A in LPS-Mediated Inflammation	Anika Vaz [†] (Purdue University) Samantha Sarah Lin [‡] (Pharmacy JMHC)
Wang, Feng	Poster #1037: 7/30 @ 10:30-11:30am	Heterologous Expression and Functional Characterization of Arabidopsis thaliana AGO1 and AGO4 in Gene Silencing	Austin Robert Tanabe [†] (Agriculture Engineering JMHC)
Wang, Jingkun	Poster #1059: 7/30 @ 10:30-11:30am	Analysis of Closed-Loop Communication to Predict Non-Technical Skills Amongst Surgical Teams in Operating Rooms	Kelcie Edrea T Estrera [†] (Science) Yizheng Jiang [‡] (Engineering)
Wang, Jingkun	Poster #1070: 7/30 @ 10:30-11:30am	Speech-Based Assessment of Acute Fatigue in Surgical Team Members	Yizheng Jiang [†] (Engineering) Kelcie Edrea T Estrera [‡] (Science)
Wang, Lei	Poster #1083: 7/30 @ 10:30-11:30am	Exploring the Existence of Atmospheric Blocking's Precursor Patterns with Physics-Informed Explainable AI	Zhixin Li [†] (Science)
Wang, Lei	Poster #1420: 7/30 @ 1:30-2:30pm	Predictability of Atmospheric Blocking in Future Climates using Convolutional Neural Networks	Parthav Garg [†] (Science)
Wang, Lei	Poster #1437: 7/30 @ 1:30-2:30pm	Optimal Blocking Precursors in Observations and a Two-layer Quasi-geostrophic Model	Caden S McCollum [†] (Science) Zhixin Li* (Science) Zhaoyu Liu* (Science)
Wang, Yifan	Poster #1107: 7/30 @ 10:30-11:30am	Automated Wafer-Level Electrical Testing Workflow for RRAM Characterization	Minghan Wang [†] (Engineering)
Wang, Zeshu	Poster #1285: 7/30 @ 12:00-1:00pm	Design and Automated Characterization Infrastructure for CMOS+X Integrated Systems	Henan Wang [†] (Engineering)
Wang, Zhijian	Poster #1518: 7/30 @ 1:30-2:30pm	Designing Microfluidic Chips for Accurate Neutralizing-Antibody Capture Using Magnetophoresis	Maia Stef-Praun [†] (Engineering)
Warsinger, David	Poster #1003: 7/30 @ 10:30-11:30am	Asymmetric Polyvinylidene Fluoride (PVDF) – Graphitic Aerogel (GA) Membranes for Efficient Air Dehumidification	Mudit Pandey [†] (Engineering) Ishan Gopu Nair* (Engineering) Md Sadat Aarik* (Engineering)
Warsinger, David	Poster #1097: 7/30 @ 10:30-11:30am	Characterization of the Separation via Reverse Osmosis in Chemicaloric Refrigeration Cycles	Rohan Ashish Shrowty [†] (Engineering)
Warsinger, David	Poster #1112: 7/30 @ 10:30-11:30am	Experimental Metathesis Low-salt-rejection Reverse Osmosis for Improved Resource Recovery	Kai-Xing Yue [†] (Engineering)
Warsinger, David	Poster #1225: 7/30 @ 12:00-1:00pm	Quasi-Steady State Performance Analysis of a Dual-Module Humidity Pump and Heat Pump Integrated Industrial Dryer	Md Sadat Aarik [†] (Engineering) Ishan Gopu Nair [‡] (Engineering) Mudit Pandey [‡] (Engineering)
Warsinger, David	Poster #1320: 7/30 @ 12:00-1:00pm	Transient Modeling and Validation of a Passive Membrane Dehumidification Module for Energy-Efficient Industrial Drying	Alvan Ramee [†] (Engineering)

Students' Role Notations: [†]Presenting Author, [‡]Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Warsinger, David	Poster #1426: 7/30 @ 1:30-2:30pm	Characterization and Optimization of Mycelium-based Membrane Distillation with Feed-Side Fins	Dev Vishwash Joshi† (Engineering)
Warsinger, David	Poster #1438: 7/30 @ 1:30-2:30pm	Producing Rocket Fuel on Mars: A Thermodynamic Analysis of Separating Perchlorate Salts from Martian Brine	Sahda Mohammadu Haroon† (Engineering) Isaac Parks* (Engineering) Tejas Pandit* Princess Gloria Onyinyechi Okoli* (Engineering)
Warsinger, David	Poster #1441: 7/30 @ 1:30-2:30pm	Influence of Pore Morphology on Dehumidification Performance of Asymmetric Polyethersulfone Membranes	Ishan Gopu Nair† (Engineering) Mudit Pandey* (Engineering) Harishramani Venkatasubramanian* (Engineering) Md Sadat Aarik* (Engineering) Govind Sriram Lanka* (Engineering) Ron Cheng Xuan Chay* (Science)
Warsinger, David	Poster #1447: 7/30 @ 1:30-2:30pm	Converting Martian Soil to Rocket Fuel	Isaac Parks† (Engineering) Sahda Mohammadu Haroon* (Engineering) Princess Gloria Onyinyechi Okoli* (Engineering) Tejas Pandit*
Warsinger, David	Talk #7005: 7/30 @ 10:40am	Graph-Theoretic Observability and Redundancy Analysis for Large-Scale Water Treatment and Distribution Systems	Mihir Samanyu Talamudipi† (Engineering)
Warsinger, David	Talk #7011: 7/30 @ 10:40am	Pulse-Flow Reverse Osmosis	Taher Mustafa Mukadam† (Engineering) Mackenzie Hathaway* (Engineering JMHC)
Wassgren, Carl R	Poster #1428: 7/30 @ 1:30-2:30pm	Experimental validation of a Coupled Eulerian-Lagrangian model to predict granular discharge in industrial hoppers.	Abel Paul Sholey Kallely† (Engineering)
Weake, Vikki Marie	Poster #1203: 7/30 @ 12:00-1:00pm	Developing a toolkit for the in vivo monitoring of circadian rhythmicity in <i>Drosophila Melanogaster</i>	Alan Cortes† (Agriculture)
Webb, Kevin J	Poster #1429: 7/30 @ 1:30-2:30pm	Pressure and Force Density Distributions Caused by Electromagnetic Radiation	Adam Lewis Kipp† (Engineering)
Webb, Kevin J	Talk #7075: 7/30 @ 3:00pm	Modeling Thin Membrane Response to Time-Varying Forces	Carman Stanton† (Engineering)
Weibel, Justin	Poster #1464: 7/30 @ 1:30-2:30pm	Experimental Design and Prototyping for TPMS Condensers in Data Centers	Serena Yuanyuan Wei† (Engineering Science)
Weibel, Justin	Talk #7047: 7/30 @ 1:40pm	Computational Design and Optimization of Functionally Graded TPMS Heat Exchangers	Wyatt Soberg Catz†
Wells, Ellen M	Poster #1292: 7/30 @ 12:00-1:00pm	Association of Cumulative Lead Exposure and APOE ε4 Status with Cognitive Decline in Older Adults	Elisa Chen† (Science JMHC) Grace Ann Kowis‡ (HHS Liberal Arts)
Wendt, michael	Poster #1219: 7/30 @ 12:00-1:00pm	EMT-Mediated Regulation of Exogenous Fatty Acid Uptake in Breast Cancer Cells	Arianis Loraine Hernández Peña† (PWL)
Wendt, michael	Poster #1303: 7/30 @ 12:00-1:00pm	Hypoxia-Driven Lipid Uptake Increases Metastatic Potential	Cheyenne Renee Waddell† (Agriculture)
Whalen, Timothy M	Talk #7069: 7/30 @ 2:00pm	Bioinspired Continuum Robot	Eain Drae Oo† (Engineering) Denyse Isingizwe† (Engineering)

Name	Presentation	Title	Students
Whelton, Andrew	Poster #1089: 7/30 @ 10:30-11:30am	Evaluating Biofilm-Contaminant Interactions in Water Distribution Systems After Emergencies and Disasters	Keira Alexandra Murphy† (Engineering)
White, Olivia Nicole	Poster #1419: 7/30 @ 1:30-2:30pm	Assessment of Quantity- and Quality-Related Skeletal Properties in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes	Ava Fuchs† (Engineering) Isabelle Anne Hunt‡ (Engineering) Jennifer Marie Bowles‡ (Engineering) Sachenka Katrina Angel Aranguena‡ (Engineering)
White, Olivia Nicole	Talk #7060: 7/30 @ 2:00pm	Characterizing Structural and Mechanical Femoral Outcomes in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes	Isabelle Anne Hunt† (Engineering) Ava Fuchs‡ (Engineering) Sachenka Katrina Angel Aranguena‡ (Engineering) Jennifer Marie Bowles‡ (Engineering)
Wight, Abigail Marie	Talk #7037: 7/30 @ 12:20pm	“Structural Characterization of N-terminally ubiquitinated BAP1 in complex with Ub-VME”	Donovan Dewitt† (PWL)
Wildridge, Andrew James	Talk #7085: 7/30 @ 3:00pm	Bumblebee, a Foundation Model for Particle Physics Discovery	Cara Suht† (Science)
Wilkening, Jason John	Poster #1104: 7/30 @ 10:30-11:30am	The Impact of Colliding Deflagration Waves	Likhita Tinga† (Engineering)
Wilker, Jonathan J	Talk #7033: 7/30 @ 12:00pm	Sustainable Manufacturing of Aerospace Composite Structures using High-performing Bio-based Epoxy Systems	Luis Mariano Avalos Campa† (Science)
Willhardt, Colton Dean	Poster #1287: 7/30 @ 12:00-1:00pm	Characterizing Optical Radiation in Solid Fuel Ramjets	Katie Wilkinson†
Williams, Evan R	Poster #1095: 7/30 @ 10:30-11:30am	Characterization of Strain Acquisition in Thermoreversible Acrylic Gels Using Rheo-Particle Image Velocimetry	Zachary Ryan Roeder† (Engineering)
Williams, Rua Mae	Talk #7004: 7/30 @ 10:20am	Finding the Story in the Sound: A Language-Model-Driven System for Synchronized Audio and Lyrical Narrative Visualization	William Andres Bayona Vergara† (Polytechnic)
Wise DiVincenzo, Jenna L	Poster #1105: 7/30 @ 10:30-11:30am	Extending Gradual CO to Support a Wider Variety of Programs	Mai Khanh Tran† (Engineering) Joao Vitor Carvalho Almeida† (Engineering)
Witkowiak, Kamryn Michelle	Poster #1314: 7/30 @ 12:00-1:00pm	A systematic review of EEG research on error processing in schizophrenia	Seona James Mathew† (PWL) Lorelei Estella ro Fletcher† (JMHC) Morgan Denae Furlow† (Science)
Wolf, Patricia Marie	Poster #1042: 7/30 @ 10:30-11:30am	Utilizing a SIM assay to access microbial Cysteine metabolism and its role in colorectal cancer	David Perez Ramos† (PWL) Apekshya Chhetri‡ (HHS) Ariana Moffitt‡ (HHS) Jellie Corduroy‡ (HHS)
Woo, Seonho	Talk #7082: 7/30 @ 3:20pm	Process-Level Digital Twin Guide for Flow Optimization and Interoperability in a Semiconductor Backend Manufacturing Plant	Ana Susana Deng Guan† (PWL)
Woo, Seung Ho	Talk #7082: 7/30 @ 3:20pm	Process-Level Digital Twin Guide for Flow Optimization and Interoperability in a Semiconductor Backend Manufacturing Plant	Ana Susana Deng Guan† (PWL)
Wu, Jason	Poster #1440: 7/30 @ 1:30-2:30pm	Improving the accuracy and efficiency in Large Language Model component creation for web development and content creation	Saran S Nagubandi† (Science) Aiden Moy‡ (Science)
Wu, Jason	Talk #7080: 7/30 @ 3:40pm	Beyond Task Completion: Training Computer-Use Agents to Evaluate Usability	Rishab Sai Vempati† (Science)

Students’ Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Wu, Junyi	Poster #1406: 7/30 @ 1:30-2:30pm	Using UK Biobank Data to Investigate the Link Between Type 2 Diabetes and Alzheimer's Disease	Zoe Amermant [†] (Engineering)
Wu, Wenzhuo	Talk #7025: 7/30 @ 11:20am	Enhancing the Mechanical Reliability of Free-Standing Laser-Induced Graphene through Process and Material Design	Elena Paias Ferreira [†] (Engineering)
Wyatt, Brian Cecil	Talk #7000: 7/30 @ 10:00am	Nanoscale Thermal Transport Mapping and Interfacial Constraints of Individual Layers for Titanium Carbide (Ti3C2Tx) MXene	Johanna Walther [†] (Engineering)
Xia, Shilo	Poster #1448: 7/30 @ 1:30-2:30pm	A Custom Capacitive Liquid-Level Sensor for an R&D TPC in Dark Matter Detection	Kavyaa Parmar [†] (Engineering Science) Atiksh Bhattacharya [†] (Science)
Xiao, Jinwu	Poster #1004: 7/30 @ 10:30-11:30am	Context-Enhanced Vision-Language Models for Bridge Condition Rating	Dylan Friedman [†] (Polytechnic)
Xiao, Qiuyang	Poster #1065: 7/30 @ 10:30-11:30am	An Intelligent, High-Throughput Microfluidic Sorter for Drosophila melanogaster Embryos	Sicheng He [†] (Science) Ayush Ashok Khondge [‡] (PWL) Nolan H Nguyen [‡] Qingyang Sun [‡] (Engineering) Elizabeth Renee Murotani [‡] (Science) Bosco Lee [‡] Aaron W Berntsen [‡] (Engineering JMHC) Lucas Bin Fan Wu [‡] (Unknown)
Xiao, Shulan	Poster #1457: 7/30 @ 1:30-2:30pm	Resolution restoration and segmentation of two-photon dendritic spine images using deep learning-based algorithms	Leonor Antunes Sinogas [†] (Science)
Xie, Junkai	Poster #1467: 7/30 @ 1:30-2:30pm	PFOA and PFOS exposure induce endothelial cell barrier disruption	Eric Y Yang [†] (Engineering) Bingrui Luke Wang [*] (Engineering)
Xie, Qiaorong	Poster #1068: 7/30 @ 10:30-11:30am	Development of an AI-Assisted Workflow for Automated Analysis of Untargeted Nano-DESI Mass Spectrometry Imaging Data	Joseph Anthony Janicek [†] (Science)
Xiong, Xiaoli	Poster #1008: 7/30 @ 10:30-11:30am	Experimental and Computational Study for Optimized Sustainability-Mechanical-Hydration Kinetics of Type II-Slag Cement Mortar	SOPHIA SHELDON [†] (Polytechnic)
Xu, Ranjie	Talk #9017: 7/27-7/31 virtually	Modelling Multiple Pathologies of Alzheimer's Disease Using Human-Mouse Chimeric Brains	Akhil Pinnareddy [†] (Liberal Arts Vet Med)
Xu, Zhengtong	Poster #1443: 7/30 @ 1:30-2:30pm	Dexterous Manipulation Benchmark	Khoa Duc Khoa Nguyen [†]
Xue, Qiuyue	Poster #1111: 7/30 @ 10:30-11:30am	Smart PPG Earring for Multi-Modal Eating Detection and Dietary Monitoring	Feng Ye [†] (Science) Nguyen Chan Nhu Pham [‡] (Liberal Arts) Antara Durbha [‡] (Science)
Yadav, Anish	Poster #1069: 7/30 @ 10:30-11:30am	Evaluation of platinum-tin and platinum-copper alloy catalysts for chemoselective hydrogen addition.	Daniel Esteban Jara Moreno [†] (Science)
Yang, Danzhou	Poster #1212: 7/30 @ 12:00-1:00pm	Development of G-Quadruplex Database for Structural and Comparative Analysis	Sebastian Cruz [†] (PWL)
Yang, Danzhou	Poster #1288: 7/30 @ 12:00-1:00pm	Characterization of Benzothiazolium Ligand Binding to MYC G-quadruplex DNA using Biophysical Methods	Lorelei B Xia [†] (Pharmacy)
Yang, Yi	Talk #7087: 7/30 @ 3:40pm	Structural and Electronic Investigation of ACIGS Chalcopyrites using Density Functional Theory	Yutika Vasudeo Sawant [†] (Science JMHC)

Name	Presentation	Title	Students
Yao, Yao	Poster #1120: 7/30 @ 10:30-11:30am	Search for HH $\rightarrow$ $b\bar{b}\tau^+\tau^-$ Using Run 3 Scouting Data – Analyze Tagging Performances with Unified Particle Transformer	Qianyue Chen [†] (PWL) Annella Bellot* (PWL)
Yao, Yao	Talk #7027: 7/30 @ 11:00am	Tau-Jet Matching and Tag-and-Probe Tau Tagging Efficiencies for HH $\rightarrow$ $b\bar{b}\tau^+\tau^-$ Searches Using Run 3 CMS Scouting Data	Annella Bellot [†] (PWL) Qianyue Chen* (PWL)
Yao, Yuan	Poster #1033: 7/30 @ 10:30-11:30am	Optimizing the preparation of solubilizer in antiviral formulations	Tongyu Qin [†]
Yih, Yuehwern	Poster #1051: 7/30 @ 10:30-11:30am	Identifying Fatigue Indicators in Cyclists' Bodies Over Time: A Kinematic and Subjective Multi-Modal Pilot Study	David Felipe Arguello Patino [†] (Engineering) Adam James Sullivan [‡] (Engineering)
Yoon, Gyeong Mee	Poster #1015: 7/30 @ 10:30-11:30am	Crosstalk between ethylene biosynthesis and autophagy in response to stress	Alexus Moriah Johnson [†] (PWL)
Yoshida, Ken	Poster #1235: 7/30 @ 12:00-1:00pm	Towards translating Low Frequency Alternating Current (LFAC) stimulation for modulating bladder function	Martinos Christodoulides [†] (Engineering)
Yoshida, Ken	Poster #1315: 7/30 @ 12:00-1:00pm	Effects of Drying Time and Plasticizer Content on Thermoplastic Starch Adhesive Strength	Milagros Melhem Bertagni [†] (PWL)
Young, Addison Anton	Talk #7012: 7/30 @ 10:00am	Determining Regulation of PACT via Phosphorylation in TNBC	Keeley Ann Rohrer [†] (Agriculture JMHC)
Young, Barbara	Talk #7083: 7/30 @ 3:00pm	Understanding Differences in Active Learning Classroom Typologies	Odalis Joana Campos Vasquez [†] (Liberal Arts JMHC)
Yu, Denny	Poster #1059: 7/30 @ 10:30-11:30am	Analysis of Closed-Loop Communication to Predict Non-Technical Skills Amongst Surgical Teams in Operating Rooms	Kelcie Edrea T Estrera [†] (Science) Yizheng Jiang [‡] (Engineering)
Yu, Denny	Poster #1070: 7/30 @ 10:30-11:30am	Speech-Based Assessment of Acute Fatigue in Surgical Team Members	Yizheng Jiang [†] (Engineering) Kelcie Edrea T Estrera [‡] (Science)
Yuan, chongli	Poster #1113: 7/30 @ 10:30-11:30am	Differential Gene Expression Signatures Define Individual Vulnerability to Environmental Toxins in Alzheimer's Disease	Lucia X Zhang [†] (Engineering)
Yuan, chongli	Poster #1404: 7/30 @ 1:30-2:30pm	Investigating the Combined Effects of ADNP Mutations and PFNA Exposure on Human Neuronal Development and ASD	Amanda Nesbitt [†] (Centers & Institutes)
Yuan, chongli	Poster #1467: 7/30 @ 1:30-2:30pm	PFOA and PFOS exposure induce endothelial cell barrier disruption	Eric Y Yang [†] (Engineering) Bingrui Luke Wang* (Engineering)
Zahin, Farhan Ishraque	Poster #1429: 7/30 @ 1:30-2:30pm	Pressure and Force Density Distributions Caused by Electromagnetic Radiation	Adam Lewis Kipp [†] (Engineering)
Zahin, Farhan Ishraque	Talk #7075: 7/30 @ 3:00pm	Modeling Thin Membrane Response to Time-Varying Forces	Carman Stanton [†] (Engineering)
Zahoor, Mudasir	Poster #1208: 7/30 @ 12:00-1:00pm	Investigating the Role of Dnmt3bas in Protecting the Dnmt3b Promoter from DNA Methylation	Marlayna Little [†] (Agriculture)
Zavattieri, Pablo D	Poster #1522: 7/30 @ 1:30-2:30pm	Role of Delamination found in Microtrichia at the Elytral Interlocking Mechanism of the Diabolical Ironclad Beetle	Tomas Vargas-Bernal [†] (Engineering JMHC)
Zeidler, Benjamin	Poster #1229: 7/30 @ 12:00-1:00pm	2D and 4D Ultrasound Assessment of Ejection Fraction in an Empagliflozin-Treated Murine Model of Duchenne Muscular Dystrophy	Olivia Bell [†] (Engineering) Alekh Pratish Shah [‡] (Engineering) Xavier Thomas Cedric Tribout [‡] (PWL)

Students' Role Notations: [†]Presenting Author, [‡]Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Zeidler, Benjamin	Talk #7022: 7/30 @ 11:20am	Evaluating the Cardiotoxicity of Doxorubicin Using 4D Echocardiology	Helen Yee†
Zeng, Yihang	Poster #1459: 7/30 @ 1:30-2:30pm	Automating 2D material exfoliation	Aditya Srinivasan† (Science)
Zeng, Yihang	Poster #1515: 7/30 @ 1:30-2:30pm	Twisted Two-Dimensional Devices Yield Novel Quantum Phenomena	Timothy A Schmiedt† (Science JMHC) Diya Shivpuje† (PWL)
Zeng, Zhenhua	Poster #1264: 7/30 @ 12:00-1:00pm	Tuning Metal Identity and Nitrogen Coordination in M-N-C Substrates for Enhanced Pt Nanoparticle Stability	Guanting Li† (Science)
Zeng, Zhenhua	Poster #1415: 7/30 @ 1:30-2:30pm	Build Large AI-Ready Database for Interface Science	Wen Xun Chua† (Science)
Zhan, Li	Poster #1065: 7/30 @ 10:30-11:30am	An Intelligent, High-Throughput Microfluidic Sorter for Drosophila melanogaster Embryos	Sicheng He† (Science) Ayush Ashok Khondge‡ (PWL) Nolan H Nguyen‡ Qingyang Sun‡ (Engineering) Elizabeth Renee Murotani‡ (Science) Bosco Lee‡ Aaron W Berntsen‡ (Engineering JMHC) Lucas Bin Fan Wu‡ (Unknown)
Zhang, Cankui	Poster #1012: 7/30 @ 10:30-11:30am	Downregulation of Sucrose Transporter (SUT1) in Tobacco Leaves	Allison Del Sarto† (PWL)
Zhang, Chi	Talk #7073: 7/30 @ 2:20pm	Effects of Cancer-Associated Fibroblasts on Pancreatic Cancer Cell Migration Under Hypoxic Conditions	Ambhranee Yakkundi† (Science)
Zhang, Dianyun	Poster #1060: 7/30 @ 10:30-11:30am	A Real-Time Digital Twin Framework for Temperature Monitoring and Feedback Control in Automated Fiber Placement	Hongsen Fang† (Engineering) Rohan Kelkar* (Engineering)
Zhang, Dianyun	Poster #1257: 7/30 @ 12:00-1:00pm	Laser-Profilometry-Driven Digital Twin System for Defect Detection during Automated Fiber Placement	Rohan Kelkar† (Engineering) Hongsen Fang‡ (Engineering)
Zhang, Kevin	Poster #1222: 7/30 @ 12:00-1:00pm	Evaluating LLM Biases Across Computer Science Conferences and Institutions	Erin Rodriguez† (PWL)
Zhang, Lijia	Poster #1298: 7/30 @ 12:00-1:00pm	Advancing Better Therapies: Screening Pyrrolopyridine-Hydrazone Derivatives Against Clostridioides difficile	Katrina Mason† (PWL)
Zhang, Shuaiqing	Poster #1459: 7/30 @ 1:30-2:30pm	Automating 2D material exfoliation	Aditya Srinivasan† (Science)
Zhang, Siqi	Poster #1122: 7/30 @ 10:30-11:30am	Born This Way? Birth Order Differences in Parents' Evaluations of Preschoolers' Math Abilities and the Importance of Math	Anne C. Lim† (HHS) Sanah Kochhar† (HHS)
Zhang, Xiaoyue	Poster #1442: 7/30 @ 1:30-2:30pm	A Comparative Evaluation of Machine Learning Models for Heat Conduction Problems	Malavika Nair† (Engineering)
Zhang, Xinyu	Talk #7003: 7/30 @ 10:00am	BioreactorMR: An AI-Augmented Mixed-Reality Tool for Collaborative Bioreactor Education	Azeem Ehtisham† (Polytechnic)
Zhang, Yaguang	Poster #1052: 7/30 @ 10:30-11:30am	A Speech Command Interface and Sensing Pipeline for Agricultural Vehicles	Sidharth Bhatt†
Zhang, Yaguang	Poster #1073: 7/30 @ 10:30-11:30am	Route-Aware and Uncertainty-Aware Traversability Planning for Safe Detours and Route Rejoining in Agricultural Field Autonomy	Kyungmin Kim† (Engineering Science)

Students' Role Notations: †Presenting Author, ‡Contributing Author, *Acknowledgment

Name	Presentation	Title	Students
Zhang, Yaguang	Poster #1240: 7/30 @ 12:00-1:00pm	Project Rosa: An Off-Grid Edge Computing Gateway for Agricultural Data	Pavle Duric† (Engineering Polytechnic) Spencer Michael Beane* (Engineering) Keri Lyn Christman* (PWL)
Zhang, Yaguang	Poster #1256: 7/30 @ 12:00-1:00pm	Agricultural-Vehicle-Based Radio-Frequency Readout System for Underground Biodegradable Sensors and Batteries	Pataraphol Keeraswangporn† (Engineering)
Zhang, Yuanyuan	Poster #1012: 7/30 @ 10:30-11:30am	Downregulation of Sucrose Transporter (SUT1) in Tobacco Leaves	Allison Del Sarto† (PWL)
Zhang, Zheyuan	Poster #1273: 7/30 @ 12:00-1:00pm	Evaluating State-of-the-Art LLMs on Postoperative Commentary for Automated Surgical Feedback	Rushil Ramchand† (Engineering)
Zhang, Zhong-Yin	Poster #1214: 7/30 @ 12:00-1:00pm	Discovery of Novel Covalent Inhibitors of the Cryptic Site of the Protein Tyrosine Phosphatase SHP-1.	Roman Matamoros† (PWL) Olivia Nicole Safranek* (Science)
Zhao, Han	Poster #1113: 7/30 @ 10:30-11:30am	Differential Gene Expression Signatures Define Individual Vulnerability to Environmental Toxins in Alzheimer's Disease	Lucia X Zhang† (Engineering)
Zhao, Xihui	Poster #1404: 7/30 @ 1:30-2:30pm	Investigating the Combined Effects of ADNP Mutations and PFNA Exposure on Human Neuronal Development and ASD	Amanda Nesbitt† (Centers & Institutes)
Zhao, Xihui	Poster #1467: 7/30 @ 1:30-2:30pm	PFOA and PFOS exposure induce endothelial cell barrier disruption	Eric Y Yang† (Engineering) Bingrui Luke Wang* (Engineering)
Zhou, Haopeng	Poster #1403: 7/30 @ 1:30-2:30pm	A Multi-Modal iOS App for Interview Transcript Capture and LLM-Based Entity Extraction in Opioid Recovery Pathway Mapping	Prisha Marpu† (Centers & Institutes)
Zhu, Chenfei	Poster #1072: 7/30 @ 10:30-11:30am	AudioFix: Bridging the Expertise Gap in Acoustic Fault Diagnosis with Multimodal AI	Nathan Maharaj Kharwanlang† (Engineering)
Zhu, Chenfei	Poster #1085: 7/30 @ 10:30-11:30am	CoReason: Human-Agent Co-Reasoning in AR-Assisted Physical Tasks	Bingyi Liu† (Engineering Science)
Zhu, Tiancong	Poster #1071: 7/30 @ 10:30-11:30am	Optimization of Wafer-Scale MoSe ₂ Growth via Molecular Beam Epitaxy	Brayden Kauffmann† (Science) Aditya H Joshi‡ (Engineering)
Zhu, Tiancong	Poster #1500: 7/30 @ 1:30-2:30pm	Optimizing Air-Annealing Parameters for Single-Step Surface Morphology on C- and A-Plane Sapphire	Aditya H Joshi† (Engineering) Brayden Kauffmann* (Science)
Zhu, Tiancong	Talk #7028: 7/30 @ 11:20am	Inert-Atmosphere Assembly of Encapsulated Air-Sensitive vdW Heterostructures with Machine-Learning Layer Identification	Manaswini Singh† (Science) Priya Mishra‡ (Science) Sagarika Menon‡ (Science)
Zhussupbekova, Anelya	Talk #7079: 7/30 @ 3:20pm	Investigating Performance of Nanosilica and Non-traditional and Natural Pozzolans in Type II Cementitious systems	Aryan Daga† (Engineering)
Ziaie, Babak	Talk #7042: 7/30 @ 12:00pm	A Non-Invasive Acoustic Sensing System for Sleep Bruxism Screening	Aaruni Singh† (Engineering)
Zimmerman, Corinne	Poster #1304: 7/30 @ 12:00-1:00pm	Collective Memory in Bacterial Communities: Could It Help Reverse Antibiotic Resistance?	Israel Adenuga† (Homewood-Flossmoor High School) Alessandra Orr† (Homewood-Flossmoor High School) Jolissa Abeht† (Homewood-Flossmoor High School)

Name	Presentation	Title	Students
Zimmerman, Russell Lee	Poster #1462: 7/30 @ 1:30-2:30pm	Multimode Entanglement in Attosecond Controlled Squeezed Light	Sreeram Vengalloor Madhavan [†] (Science)
Ziviani, Davide	Poster #1225: 7/30 @ 12:00-1:00pm	Quasi-Steady State Performance Analysis of a Dual-Module Humidity Pump and Heat Pump Integrated Industrial Dryer	Md Sadat Aarik [†] (Engineering) Ishan Gopu Nair [‡] (Engineering) Mudit Pandey [‡] (Engineering)