



Summer 2024 Undergraduate Research Symposium: List by Mentor

Name spellings appear as submitted in OURConnect. Names may be edited (for future reporting) via "my profile" in OURConnect.

Mentor Name	Presentation	Students	Title
Adeoye Olenloa, Temitope Folasade	Talk #9018 presented 7/25-8/01 virtually	Shamari Garrett†	Analyzing Neighborhood Property Conditions in South Lafayette Neighborhood
Adeoye Olenloa, Temitope Folasade	Talk #9020 presented 7/25-8/01 virtually	Hannah Krouse† Rebekah Chaffee† Logan Locker† Heidi Vazquez Garcia† Georgeia Edwards‡ Sam Heidlebaugh‡ Lourdes Sanchez‡	Assessing Youth Learning and Development and Parental Needs in an Afterschool Program
Afshang, Mehrnoosh	Poster #1027 presented 7/25 @ 9:00-10:00am	En-tsz Liu†	Molecular Release Experiments from Micro-fibrillated Cellulose
Agrawal, Rakesh	Talk #7026 presented 7/25 @ 10:40am	Kamran Hajibayli†	Solution-Processed Synthesis and Optoelectronic Characterization of Chalcogenide Perovskite Nanomaterials: The Case of (BaxSr1-x)ZrS3
Aime, Mary	Poster #1062 presented 7/25 @ 9:00-10:00am	Lane Bell† Bryan Reyes‡	Examining Diversity Trends of Co- Infectious Organisms within Native Indiana Rust
Aime, Mary	Poster #1274 presented 7/25 @ 10:30-11:30am	Bryan Reyes† Lane Bell‡	Investigating Leotiomycetes from Indiana Aquatic Ecosystems
Akash, Anwarul Islam	Poster #1260 presented 7/25 @ 10:30-11:30am	Jack Rearden Ferlazzo†	Nanoscale 3D Printing using Two-Photon Lithography for Biomedical and Electronic Applications
Al Hawwash, Awadh Mubarak M	Poster #1616 presented 7/25 @ 1:30-2:30pm	Nicholas Herschel Burris†	Two Channel Low Frequency Alternating Currents to Achieve Nerve Conduction Block
Alam, Afaque	Poster #1256 presented 7/25 @ 10:30-11:30am	Ishaan Breinig†	Evaluation of Flammability Mitigation in Lithium-Ion Batteries Using Phosphorous- Based Electrolyte Additives
Alam, Waqas	Poster #1015 presented 7/25 @ 9:00-10:00am	Joyce Hu†	Hydrophobic Carbonized Wood Membranes: A Suitable Alternative for Membrane Distillation
Alexeenko, Alina	Poster #1442 presented 7/25 @ 12:00-1:00pm	Chi-En Huang†	Comparative Analysis of Methods for Measuring Mass Transfer Resistance (Rp) from Temperature in Lyophilized Formulations
Allen, Brandon Chase Myke	Poster #1200 presented 7/25 @ 10:30-11:30am	Aspen Arnold†	The New Mine: Navigating the Environmental Challenges of EV Battery Disposal
Allen, Brandon Chase Myke	Poster #1202 presented 7/25 @ 10:30-11:30am	Scott Edwards†	An Integrated Future: Developing Optimal EV Infrastructure in Urban Areas
Allen, Brandon Chase Myke	Poster #1203 presented 7/25 @ 10:30-11:30am	Kaydence Hall†	Breathe EV: Centering Community Health in the Pursuit of EV Adoption in Indiana
Allen, Brandon Chase Myke	Poster #1204 presented 7/25 @ 10:30-11:30am	Angelic Harris†	Charging Indiana: A Review Into Equitable Access to EV Charging Stations in Indiana
Allen, Brandon Chase Myke	Poster #1205 presented 7/25 @ 10:30-11:30am	Jarrett Harris†	EV Innovation: Systematic review of EV battery impact in the last 20 years
Allen, Brandon Chase Myke	Poster #1206 presented 7/25 @ 10:30-11:30am	Francisco Hurtado†	To BEV or not BEV: Comparing EV power sources ability to reduce the US's carbon footprint

Mentor Name	Presentation	Students	Title
Allen, Brandon Chase Myke	Poster #1208 presented	Quayannah Lane†	Youth Engineers in the Sustainability
	7/25 @ 10:30-11:30am		Program: A Case Study of a Research Program Effort to Support High School Students College Readiness
Allen, Brandon Chase Myke	Poster #1210 presented 7/25 @ 10:30-11:30am	Tiara Thomas†	Powering Equity in Louisiana Through EV Adoption
Allen, Brandon Chase Myke	Poster #1211 presented 7/25 @ 10:30-11:30am	Daniel White†	The Hybrid Revolution: Steering the Path for EV Evolution
Allen, Brandon Chase Myke	Talk #9008 presented 7/25-8/01 virtually	Abdellah Amrhar†	Optimizing EV Charging Infrastructure: Strategic Stop and Road Locations
Allen, Brandon Chase Myke	Talk #9009 presented 7/25-8/01 virtually	Elsia Rodriguez-Linares†	Analyzes of Salt lake city, US, environmental and health impacts of electrification of roadways in an Urban setting
Allen, Brandon Chase Myke	Talk #9010 presented 7/25-8/01 virtually	Robert D Serrano†	Increasing Electric Vehicle Charger Availability with a Mobile, Self-Contained Charging Station
Allen, Kaitlyn Nicole	Poster #1201 presented 7/25 @ 10:30-11:30am	Daisey Briggs†	EVs for all: How Does Indiana's Plans for EV Charging Infrastructure Employ Equity?
Amusuo, Paschal Chukwuebuk	Poster #1622 presented 7/25 @ 1:30-2:30pm	Owen J Cochell†	ANSI-C Bounded Model Checking for security verification in Contiki-NG network stacks
An, Jiajun	Talk #7028 presented 7/25 @ 11:20am	Brian G Mmari†	Active Aerodynamic Tail Enhances Agile Locomotion of Legged Robots in Challenging Natural Environments
Anderson, Mark Thomas	Poster #1062 presented 7/25 @ 9:00-10:00am	Lane Bell† Bryan Reyes‡	Examining Diversity Trends of Co- Infectious Organisms within Native Indiana Rust
Applegate, Bruce M	Poster #1038 presented 7/25 @ 9:00-10:00am	Luisa Valentina Mora Perez†	Phage-based detection of Escherichia coli O157:H7 in leafy greens
Ardekani, Arezoo	Poster #1658 presented 7/25 @ 1:30-2:30pm	Madeline Jane Stevenson† Luhao Xu* Shlok Rajesh Kulkarni*	Development of Magnetic Bead-Based Active Microrheology Prototype for Probing and Measuring Mechanical Properties of Biological Matter
Ashish, Ashish	Talk #9002 presented 7/25-8/01 virtually	Austin Riley Lovell† Philip Wisniewski†	AI-Powered Operational Data Analytics: Predicting Job Queue Times on ANVIL
Ashish, Ashish	Talk #9007 presented 7/25-8/01 virtually	Philip Wisniewski† Austin Riley Lovell†	Al-Powered Operational Data Analytics: Predicting Job Queue Times on ANVIL
Ault, Aaron C	Talk #9013 presented 7/25-8/01 virtually	Kevin Ming Chang† Sabrina Chang‡ Aditya Krishnan Sivathanu‡	Geolex: Cloud-based Public Database of Global Geologic Formations
Axelrod, Abram J	Poster #1615 presented 7/25 @ 1:30-2:30pm	Riley N Brown†	Total Synthesis of Anti-Cancer Dihydrogarofuran Natural Products
Baena, Alexander	Talk #7087 presented 7/25 @ 3:00pm	Simone Xin Moulton† Adriana K Sanchez*	Mycoponics: Advanced hydroponics technology for production of mycelial leather
Balaraman, Anand	Poster #1673 presented 7/25 @ 1:30-2:30pm	Clark Lay† Songhao Wu‡	ENERGY ANALYSIS OF THE DEDICATED OUTDOOR AIR CONDITIONING SYSTEM COUPLED WITH A DUAL MEMBRANE MODULE HUMIDITY PUMP.
Banerjee, Arnab	Poster #1017 presented 7/25 @ 9:00-10:00am	Adib Kabir† Arun Arjunakani*	Ultra-sensitive Heat Capacity Measurements of Quantum Spin Liquid Materials in Cryogenic Temperatures
Banerjee, Arnab	Poster #1257 presented 7/25 @ 10:30-11:30am	Piyush Dnyaneshwar Chhallare†	Synthesis and Study of Magnetic Properties of Ytterbium Based Delafossites and Performing Rietveld Refinement

Mentor Name	Presentation	Students	Title
Barocio Vaca, Eduardo	Poster #1019 presented 7/25 @ 9:00-10:00am	Hanhyun Kwak†	Closed-Loop Sustainability of 3D Printed Carbon Fiber Reinforced Composite Tooling.
Barocio Vaca, Eduardo	Poster #1049 presented 7/25 @ 9:00-10:00am	Pedro Daniel Soto Rodriguez† Ludvik Mathis Fjeld*	In-situ characterization of the rheological behavior that makes a polymer composite printable
Barocio Vaca, Eduardo	Poster #1271 presented 7/25 @ 10:30-11:30am	Alexander Douglas Carlson†	Bed Adhesion Testing of Industrial Scale 3D Printed Materials
Barocio Vaca, Eduardo	Poster #1472 presented 7/25 @ 12:00-1:00pm	Armando David Galicia Huerta† Thomas Edgardo Schmitz‡	Hybrid Printing with Continuous and Discontinuous fibers
Barocio Vaca, Eduardo	Poster #1655 presented 7/25 @ 1:30-2:30pm	Thomas Edgardo Schmitz† Armando David Galicia Huerta‡	Additive Manufacturing with Hybrid Continuous and Discontinuous Fiber Systems
Barta, Riley Bradley	Poster #1657 presented 7/25 @ 1:30-2:30pm	Alexander Joseph Spilotro†	Measurement of Zeotropic Refrigerant Fractionation with Lubricants During Phase Change
Bartlett, Edward L	Poster #1032 presented 7/25 @ 9:00-10:00am	Jax Patrick Marrone† Andres Navarro‡ Sahil Vijay Desai‡ Emily Le Bell‡	Fast Auditory Brainstem Responses as a Method of Hidden Hearing Loss Detection
Bartlett, Edward L	Talk #7054 presented 7/25 @ 12:20pm	Sahil Vijay Desai† Jax Patrick Marrone‡ Andres Navarro‡ Emily Le Bell‡	Feature Extraction for Classification of Small Firearms-Like Noise and Blast Exposure Hearing Loss in Rat Models
Baruah, Rwivoo	Poster #1444 presented 7/25 @ 12:00-1:00pm	Shreya Joshy† Brooke Allison Pilkey‡ Silas Henry Buchanan‡	Investigating the Plant Immune Response to Ralstonia Exopolysaccharide
Baruah, Rwivoo	Poster #1651 presented 7/25 @ 1:30-2:30pm	Brooke Allison Pilkey† Shreya Joshy‡ Silas Henry Buchanan‡	Elucidation of Tomato Immune Responses in Response to Ralstonia Exopolysaccharides
Beechem, Thomas E	Poster #1077 presented 7/25 @ 9:00-10:00am	Bach Son Nguyen†	Characterizing The Electrical And Raman Spectroscopic Properties Of Graphene Field-Effect Transistors (GFET)
Behnke, Adam Winston	Poster #1268 presented 7/25 @ 10:30-11:30am	Carolyn Sun†	Simulation of Membrane Deflection Response to Temporally Impulsed Optical Pressure
Beickman, Zachary Kristopher	Poster #1043 presented 7/25 @ 9:00-10:00am	Eliana Saavedra†	Synthesis Hydrogels with Chondroitin Sulfate and GQLY Peptide to Prevent Cartilage Degradation in Osteoarthritis
Belbase, Bishnu Prasad	Poster #1257 presented 7/25 @ 10:30-11:30am	Piyush Dnyaneshwar Chhallare†	Synthesis and Study of Magnetic Properties of Ytterbium Based Delafossites and Performing Rietveld Refinement
Belkadi, Dhiya eddine	Talk #7022 presented 7/25 @ 10:20am	Junhan Shen†	ARMS: Reconfigurable Microelectronic System for Autonomous Movement and Collaboration
Bergman, Matthew Edward	Poster #1241 presented 7/25 @ 10:30-11:30am	Niki Hamraei†	Deciphering the Roles of Petunia SMAX1 Isoforms in the KAI2-Mediated Signaling Pathway
Bermel, Peter	Poster #1602 presented 7/25 @ 1:30-2:30pm	Riley James Robert Madden†	Evaluating the Radiation-Hardness of Varying COTS EEPROMs in a Thermal Neutron Environment
Bermel, Peter	Talk #7038 presented 7/25 @ 11:40am	Charles Spencer Bowles† Vidisha Singhal‡	Simulation of Modified Coherent Ising Machines for Combinatorial Optimization
Bermel, Peter	Talk #9021 presented 7/25-8/01 virtually	Isabella Virginia Levine† Sayan Roy‡	Investigation of High Energy Radiation Effects on Electronic Memory Devices
Bernal, Ximena	Poster #1212 presented 7/25 @ 10:30-11:30am	Yu-Wei Cheng†	Understanding the mechanisms underlying host preferences in Uranotaenia lowii, a frog-biting mosquito

Mentor Name	Presentation	Students	Title
Bernal, Ximena	Poster #1213 presented	Chloe Elizabeth Greco†	The role of Olfactory Cues for Host
	7/25 @ 10:30-11:30am		Localization in Frog-Biting Mosquito,
			Uranotaenia Iowii
Bernal, Ximena	Poster #1214 presented	Eavan Sohr†	The role of visual cues in host seeking
	7/25 @ 10:30-11:30am		behavior in Uranotaenia lowii, a frog-
			biting mosquito
Bernal, Ximena	Talk #7006 presented	Katherine Garcia†	Scaling Vision: The Interplay of Eyes,
	7/25 @ 9:40am		Body Size, and Ecological Functions in
			Mosquitoes
Bernal, Ximena	Talk #7048 presented	Isabella Wyatt†	Singing in the Anthropocene: Evaluating
	7/25 @ 12:00pm		Anuran Call Signal Transmission in Urban
			Environments
Bernal, Ximena	Talk #7049 presented	Krisha Shah†	Antennal Complexity in Mosquitoes:
	7/25 @ 12:20pm		Association between Structure and
			Multimodal Sensory Functions
Bernal, Ximena	Talk #7086 presented	Jabez Soongeui Shin†	Effect of artificial light at night (ALAN)
	7/25 @ 3:40pm	Adriana Bustos Torres‡	and traffic noise on anuran
			communication
Bhatnagar, Siddharth	Poster #1025 presented	Matthew S Leight [†]	Shock Tube Experimentation and High-
	7/25 @ 9:00-10:00am	Eleanor Captola Hostetler‡	Speed Shock Wave Imaging of
			Atmospheric-Like Particles
Bindra, Hitesh	Poster #1427 presented	Apoorva Bahl†	Enhancing the Gallium Thermal Hydraulic
	7/25 @ 12:00-1:00pm	Stella Mae Betts‡	Experiment (GaTE) Facility with Remote
			Automation for Advanced Reactor
			Simulation
Bindra, Hitesh	Poster #1428 presented	Stella Mae Betts†	Enabling Remote Sensing and Remote
	7/25 @ 12:00-1:00pm	Apoorva Bahl‡	Operation of the Gallium Thermal
			Hydraulic Experiment (GaTE) Facility
Blake, Jeanna Marie	Talk #7047 presented	Namju Kim†	Identification of a Novel Candidate
	7/25 @ 12:40pm		Variant in CLPX for Spinocerebellar Ataxia
<u></u>	T. II. 1174.00	Fil. Mil. IB. W. H	in a Mixed Breed Dog
Blumenschein, Laura Helen	Talk #7109 presented	Ethan Michael DeVries†	Optimizing Wire Routing in Soft-Growing
Dale Andrew Charles	7/25 @ 4:00pm	Mustafa Ugur* Bryan Gong†	Robots for Enhanced Performance
Bok, Andrew Stephen	Poster #1440 presented 7/25 @ 12:00-1:00pm	Bryan Gong	Powder Deposition for Polymer Bonded Explosives
Boor, Brandon	Poster #1451 presented	Minh An Nguyen Luu†	Laser Diffraction-Based Particle Size
BOOI, BIAIIUOII	7/25 @ 12:00-1:00pm	Willin All Nguyen Luu	Distribution Analysis of Indoor Settled
	7/23 @ 12.00-1.00piii		Dust Dust
Bowen, Craig L	Poster #1056 presented	Rubyleane Linton†	Investigating suspected mosquitos for
boweri, craig L	7/25 @ 9:00-10:00am	Scott A Gentry*	the presence of Cache Valley Virus in
	7,23 @ 3.00 10.000111	Amy R Witman*	Indiana
		Gabriela Gambirazio*	malana
		Farren E Osborn*	
Breen, Lorin Irene	Poster #1406 presented	Dania M Zein†	Transitions Between Electron Emission
,	7/25 @ 12:00-1:00pm		Mechanisms in Semiconductors
Briggs, Scott D	Poster #1222 presented	Matthew Tabrisky†	The Set1 histone H3K4 methyltransferase
55 <i>,</i>	7/25 @ 10:30-11:30am	Krishna P Patel‡	alters Candida glabrata pathogenesis by
	. =		controlling the expression of genes
			involved in cell wall formation.
Briggs, Scott D	Poster #1408 presented	Lauren Rose Connors†	Investigating the role of Erg5 in azole
	7/25 @ 12:00-1:00pm		susceptibility in Candida glabrata
Brinton, Christopher G.	Talk #7102 presented	Mathias Erik Bock Agerman†	Wireless Sensor Network Deployment in
	7/25 @ 4:00pm		Contested and Denied Undersea
			Environments
Broberg, Morgan Renee	Poster #1624 presented	Miles T Davis†	Behavior of Steel-Plate Composite T-
	7/25 @ 1:30-2:30pm		Shaped Connections
Broman, Meaghan M	Poster #1057 presented	Allison Grace Schimpf†	Identification of mast cells within the
	7/25 @ 9:00-10:00am	Alexander W Enstrom*	tumor immune microenvironment of
	7,25 € 5.00 20.000		

Mentor Name	Presentation	Students	Title
Brosseau-Lapre, Francoise	Poster #1004 presented	Niah Nieuwenhuis†	Speech Perception and Production
	7/25 @ 9:00-10:00am		Variability in Preschoolers With and
			Without Speech Sound Disorders
Brown, Josephine Maria	Talk #7005 presented	Hurshal Pol†	Unveiling PFOS Neurotoxicity: Spatial
	7/25 @ 9:40am		Analysis of Neurotransmitters with DESI-
	1,20 & 0.100		MSI
Brown, Lisa Ann	Poster #1002 presented	Deanna Durben†	Effects of PFAS exposure on reward
2.50, 2.50, 1.111	7/25 @ 9:00-10:00am	Bearing Barberry	sensitivity, cognition, and psychiatric
	7/23 @ 3.00 10.000111		symptomology
Buerke, Cameron James	Poster #1406 presented	Dania M Zein†	Transitions Between Electron Emission
buerke, carrieron James	7/25 @ 12:00-1:00pm	Dailla IVI Zelli	Mechanisms in Semiconductors
Buerke, Cameron James	Poster #1603 presented	Nicodemus M O'Brian†	Electron Emission Measurements in
buerke, Cameron James		Nicodellius IVI O Briairi	
	7/25 @ 1:30-2:30pm		Schottky Barrier Diodes Exposed to
D. H. J. D	D : #4054	Vel Ve ±	Ionizing Radiation
Bullock, Darcy M	Poster #1051 presented	Vihaan Vajpayee†	Evaluating Intersection Safety through
	7/25 @ 9:00-10:00am	Andrew Joseph Thompson*	Hard Braking Events: A Comparative
			Analysis of Signalized Intersections,
			Roundabouts, and All-Way Stops Using
			Connected Vehicle Data
Bullock, Darcy M	Poster #1269 presented	Andrew Joseph Thompson†	Evaluating the Use of LiDAR Traffic Data
	7/25 @ 10:30-11:30am	Vihaan Vajpayee*	for Assessing Infrastructure
Bush, Deborah Hannah	Poster #1224 presented	Alejandro Daza Gallo†	Genomic imputation and prediction
	7/25 @ 10:30-11:30am		analysis: Unraveling genetic variability in
			dairy cattle
Campbell, Robert A	Talk #9004 presented	Alex Sieni†	Automating HPC Software Deployment
, , , , , , , , , , , , , , , , , , , ,	7/25-8/01 virtually		
Campbell, Robert A	Talk #9006 presented	Jeffrey Winters†	Automating Research Software
eampsen, noseren	7/25-8/01 virtually	Series Winters	Deployment - PLENUM Pipeline
Campos, Gabriel Soares	Poster #1224 presented	Alejandro Daza Gallo†	Genomic imputation and prediction
Campos, Gabrier Soares	7/25 @ 10:30-11:30am	Alejandro Daza Gallo	analysis: Unraveling genetic variability in
	7/23 @ 10.30-11.30am		
Connen Jacon D	Danton #1000 massacrated	Die Diese Iberregit	dairy cattle
Cannon, Jason R	Poster #1069 presented	Dia Dipen Jhaveri†	Does M5 Muscarinic Receptors play a
	7/25 @ 9:00-10:00am		role in Chlorpyrifos-Induced
	- 11 11-00-		Dopaminergic Neuron Toxicity?
Cannon, Jason R	Talk #7005 presented	Hurshal Pol†	Unveiling PFOS Neurotoxicity: Spatial
	7/25 @ 9:40am		Analysis of Neurotransmitters with DESI-
			MSI
Cappelleri, David J	Poster #1450 presented	Ismael A Luna†	UGV IoT Deployment System
	7/25 @ 12:00-1:00pm		
Castillo, Alberto	Poster #1018 presented	Ali Kalmagambetov†	Utilizing alternative air-entraining
	7/25 @ 9:00-10:00am		methods to enhance freeze-thaw
			durability of concrete with incorporated
			nanomaterials.
Cervini, Chiara	Poster #1200 presented	Aspen Arnold†	The New Mine: Navigating the
,	7/25 @ 10:30-11:30am		Environmental Challenges of EV Battery
	1,20 € 20.00 22.00		Disposal
Cervini, Chiara	Poster #1201 presented	Daisey Briggs†	EVs for all: How Does Indiana's Plans for
co. viiii, ciiidid	7/25 @ 10:30-11:30am	23.56, 21.883.	EV Charging Infrastructure Employ
	1/25 @ 10.50-11.50aili		Equity?
Candini Chiara	Doctor #1202	Scott Edwards+	An Integrated Future: Developing
Cervini, Chiara	Poster #1202 presented	Scott Edwards†	
	7/25 @ 10:30-11:30am		Optimal EV Infrastructure in Urban Areas
Cervini, Chiara	Poster #1203 presented	Kaydence Hall†	Breathe EV: Centering Community Health
	7/25 @ 10:30-11:30am		in the Pursuit of EV Adoption in Indiana
Cervini, Chiara	Poster #1204 presented	Angelic Harris†	Charging Indiana: A Review Into
	7/25 @ 10:30-11:30am		Equitable Access to EV Charging Stations
			in Indiana
Cervini, Chiara	Poster #1205 presented	Jarrett Harris†	EV Innovation: Systematic review of EV
	7/25 @ 10:30-11:30am	1	battery impact in the last 20 years

Mentor Name	Presentation	Students	Title
Cervini, Chiara	Poster #1206 presented	Francisco Hurtado†	To BEV or not BEV: Comparing EV power
	7/25 @ 10:30-11:30am		sources ability to reduce the US's carbon
			footprint
Cervini, Chiara	Poster #1208 presented	Quayannah Lane†	Youth Engineers in the Sustainability
	7/25 @ 10:30-11:30am		Program: A Case Study of a Research
			Program Effort to Support High School
			Students College Readiness
Cervini, Chiara	Poster #1211 presented	Daniel White†	The Hybrid Revolution: Steering the Path
	7/25 @ 10:30-11:30am		for EV Evolution
Cervini, Gaia	Talk #7069 presented	Sai Shashank Mukkera†	Analyzing the Impacts of Temperature on
	7/25 @ 2:00pm		Electric Vehicle Adoption Rates Across
			Multiple US States
Chagas Boavida, Leonor Maria	Poster #1061 presented	Ava Grace Barnes†	Evaluating the Impact of Natural
de Fatima	7/25 @ 9:00-10:00am		Variation on Double Fertilization in
			Arabidopsis Thaliana
Chagas Boavida, Leonor Maria	Poster #1237 presented	Elizabeth Agyei†	Investigating the effects of DMP9
de Fatima	7/25 @ 10:30-11:30am		overexpression in osmoregulation in
			vegetative tissue
Chahine, Ricardo	Poster #1207 presented	Olivia J Kurtz†	Techno-Economic Feasibility of
	7/25 @ 10:30-11:30am		Concurrent Megawatt and Dynamic
			Wireless Power Transfer Charging
			Infrastructure for Freight Vehicles along
			an Interstate Corridor
Chahine, Ricardo	Talk #7069 presented	Sai Shashank Mukkera†	Analyzing the Impacts of Temperature on
	7/25 @ 2:00pm		Electric Vehicle Adoption Rates Across
			Multiple US States
Chan, Deva	Poster #1048 presented	Shreya Sinha†	Alterations in Extracellular Matrix Gene
	7/25 @ 9:00-10:00am		Expression Resulting from Nonequibiaxial
			Cyclic Stretch of Synoviocytes
Chan, Deva	Poster #1628 presented	Defne Ekici†	Applications of Atomic Force Microscopy
	7/25 @ 1:30-2:30pm		to Assess the Mechanics of Oocytes
Chan, Deva	Talk #7042 presented	Sarah Marie Staller†	Investigating the Relationship Between
	7/25 @ 12:00pm		Gut Microbiome, Biomechanics, and
			Scoliosis: A Holistic Approach Through
			Two Complementary Studies
Chan, Stanley H	Poster #1466 presented	William Yau†	Analysis and Improvement of Rank-
	7/25 @ 12:00-1:00pm	Weijian Zhang‡	Ordered Mean Algorithm in Single-
			Photon LiDAR
Chappell, Jacob	Talk #9015 presented	tri Than†	Chiplet Integration on PCB
	7/25-8/01 virtually	Brady Owen Philhower†	
		Rauf Emre Erkiletlioglu†	
		Gilbert Chang†	
Chapple, Clint C S	Poster #1419 presented	Eleanore Margaret	Changes in development and metabolism
	7/25 @ 12:00-1:00pm	Malinowski†	in an inducible lignin-modified
			Arabidopsis mutant
Chatzidakis, Stylianos	Poster #1602 presented	Riley James Robert Madden†	Evaluating the Radiation-Hardness of
· •	7/25 @ 1:30-2:30pm		Varying COTS EEPROMs in a Thermal
	, =r		Neutron Environment
Chatzidakis, Stylianos	Poster #1607 presented	Parker Smith†	Assessment of Composite Materials for
, ,	7/25 @ 1:30-2:30pm		Radiation Protection using OpenMC
			Simulations
Chatzidakis, Stylianos	Poster #1608 presented	Kailyn D Steed†	Composite Material Development for
Charzidakis, Styllanos	7/25 @ 1:30-2:30pm	, = =====	Simultaneously Shielding Neutron and
			Jones and Items of all
	7/25 @ 1.50 2.50pm		Gamma Radiation
Chatzidakis, Stylianos		Iulian Mauricio Cruz Roias†	Gamma Radiation Research nuclear reactor PUR-1:
Chatzidakis, Stylianos	Talk #7078 presented 7/25 @ 2:00pm	Julian Mauricio Cruz Rojas†	Gamma Radiation Research nuclear reactor PUR-1: Anomaly detection using machine

Mentor Name	Presentation	Students	Title
Chen, Boyuan	Talk #9015 presented	tri Than†	Chiplet Integration on PCB
	7/25-8/01 virtually	Brady Owen Philhower† Rauf Emre Erkiletlioglu† Gilbert Chang†	
Chen, Cheng	Poster #1225 presented	Ana Milena Espinosa Jimenez†	Latency, Velocity and Accuracy
	7/25 @ 10:30-11:30am		Evaluation of Classification Models on Edge Devices
Chen, Ching-Chien	Poster #1447 presented	Manila Kunwar†	Characterization and Improvement of
chen, ching chien	7/25 @ 12:00-1:00pm	Ruey-Bin Tsai‡	Vegetable Oils as Quenchants for Heat
Chan China China	Talk #7067 presented	Junyeong Ahn‡ Ruey-Bin Tsai†	Treatment of Metals
Chen, Ching-Chien	7/25 @ 1:20pm	Junyeong Ahn‡	Sustainable Quench Oil Replacements for Austempering Salt Quenchants
Chen, Hao	Poster #1402 presented 7/25 @ 12:00-1:00pm	Manila Kunwar‡ Zachary Rasmussen†	Optimizing Non-Sharp Distillation Column Sequence using Surrogate Physics-
			Informed Neural Network
Chen, Yueyi	Talk #7050 presented 7/25 @ 12:00pm	Nikki Leslie†	Targeting GRK5 in Metastatic Cancer: Structural Insights and Therapeutic Evaluation of Novel Inhibitors
Cherkauer, Keith A	Poster #1473 presented 7/25 @ 12:00-1:00pm	Race Ethan Medema† Alexandra Cynthia Marlene Britto‡	Chlorophyl Analysis and its Role in Modeling Harmful Algae Blooms
Chew, Ismar Leonel	Poster #1452 presented 7/25 @ 12:00-1:00pm	Ellen Ma†	Mechanical Properties of UV Curable Polymer-Bonded Explosive Molding Powder
Chien, Stanley Yung-Ping	Poster #1649 presented 7/25 @ 1:30-2:30pm	Siddharth Murali†	Measurement of Vulnerable Road User Micro Doppler Signatures
Chien, Yuan-Chi	Poster #1242 presented 7/25 @ 10:30-11:30am	Molly Kubal†	Differential Roles of ACS Enzyme Isoforms in Ethylene-Mediated Abiotic Stress Responses in Arabidopsis thaliana
Chobe, Gaurav Somnath	Poster #1258 presented 7/25 @ 10:30-11:30am	Jacob Daniel†	The Effects of Cyclic Moment Loading on Concrete Foundations with Post-Installed Anchor Groups
Choi, Jaein	Poster #1240 presented 7/25 @ 10:30-11:30am	Holly Gustavsen†	Modeling buffalograss phenology as a response to climate change
Choi, Youn jeong	Poster #1231 presented 7/25 @ 10:30-11:30am	Cora Jane Reynolds† Lail Shaw† Hallie Grace Jackson‡	Can Hemoglobin binding models be used to predict toxicity of mixtures of Forever Chemicals???
Christensen, Bailey Alexander	Poster #1653 presented 7/25 @ 1:30-2:30pm	Abhishek Raj†	Identifying Radiation Particles through Acoustic Shock Signals: A Deep Learning Perspective
Christov, Ivan C	Poster #1455 presented 7/25 @ 12:00-1:00pm	Rafael Monteiro Martins Pinheiro†	Reduced modeling of oscillatory flow in soft hydraulic systems
Ciez, Rebecca	Poster #1656 presented 7/25 @ 1:30-2:30pm	Audrey Ye-Ning Schuster†	Modeling Applications of High- Temperature Heat Pumps for Industrial Use
Clark, Alexandra Blair	Poster #1236 presented 7/25 @ 10:30-11:30am	Reagan John Thompson†	Shearing Fracture Networks
Clark, Alexandra Blair	Poster #1255 presented 7/25 @ 10:30-11:30am	Ozan Altuntas†	Investigation of the Formation of Fracture Intersection Geometry
Clark, Chancelor Bart	Poster #1245 presented 7/25 @ 10:30-11:30am	Adrian Muñoz†	Evaluation of the role of the Lateral Boundary Domain Transcription Factor GmLBD5 in Soybean Response to Sulfur Deficiency
Cloft, Sara Elizabeth	Poster #1071 presented 7/25 @ 9:00-10:00am	Rachel Elizabeth Kuhn† Abbilynne Nicole Elder† Dylan Wade Seets†	Investigation of the yolk color differences with Orange Corn versus Yellow Corn within laying chickens.

Mentor Name	Presentation	Students	Title
Cloft, Sara Elizabeth	Poster #1075 presented	Dylan Wade Seets†	Investigating the application of Reference
	7/25 @ 9:00-10:00am	Carl Anthony Kroger‡	Point Indentation as a possible tool to determine quality metrics for excised keel bones.
Coelho, Paula Danielly B	Talk #7018 presented 7/25 @ 10:40am	Nikki Lynn Zavodny†	The Worlds on Fire – Step Up to Protect Public Health and Safety
Coffey, Madeline Christina	Talk #7047 presented 7/25 @ 12:40pm	Namju Kim†	Identification of a Novel Candidate Variant in CLPX for Spinocerebellar Ataxia in a Mixed Breed Dog
Cohen, Lucas Michael	Poster #1620 presented 7/25 @ 1:30-2:30pm	Ethan Chieng Chiao†	On-chip Phase Calibration Circuits With Integrated Photonic Bragg Gratings
Colbert, Ethan Michael	Talk #7091 presented 7/25 @ 3:20pm	Jack Patrick Rodgers†	Bumblebee: A self-supervised transformer model to learn top quark decay at the Large Hadron Collider
Collard, Diane	Poster #1426 presented 7/25 @ 12:00-1:00pm	Gianna Marie Arnone† Matthew William Vaughn*	Novel Method for Enhancing Boron Combustion vis Electrochemical Deposition of Lithium
Costa Alves Souza, Olga	Talk #7103 presented 7/25 @ 4:20pm	Adam G Weber†	Data-Driven Insights into Enzyme Reaction Catalysis for Green Chemistry
Cottrell, Kyle Aaron	Poster #1221 presented 7/25 @ 10:30-11:30am	David Stanciel Onishile†	Evaluating the dependence of breast cancer on mitochondrial translation
Cox, Joshua Michael	Poster #1657 presented 7/25 @ 1:30-2:30pm	Alexander Joseph Spilotro†	Measurement of Zeotropic Refrigerant Fractionation with Lubricants During Phase Change
Cruz Santos, Deise	Poster #1231 presented 7/25 @ 10:30-11:30am	Cora Jane Reynolds† Lail Shaw† Hallie Grace Jackson‡	Can Hemoglobin binding models be used to predict toxicity of mixtures of Forever Chemicals???
Cui, Xingshan	Poster #1433 presented 7/25 @ 12:00-1:00pm	Rafael Casas Lozano†	Search for leakage-free and entangling quantum gates in the Fibonacci and D(S_3) anyon systems
Dankoski, Sean	Poster #1624 presented 7/25 @ 1:30-2:30pm	Miles T Davis†	Behavior of Steel-Plate Composite T- Shaped Connections
Danzeisen, Emily Lynae	Poster #1216 presented 7/25 @ 10:30-11:30am	Laila Fortson†	Validating and developing the AID system for anti-fungal drug discovery
Darji, Saloni	Poster #1042 presented 7/25 @ 9:00-10:00am	Ankita Prasad†	Development of Elastin-Like Polypeptide Based Nucleic Acid Delivery System for Treatment of Bladder Cancer
Das, Subhadeep	Poster #1407 presented 7/25 @ 12:00-1:00pm	Jamie Kim Bryan†	Unraveling the roles of DEAD-box helicases in eukaryotic gene regulation
Dasaro, Sophia R	Poster #1436 presented 7/25 @ 12:00-1:00pm	Luke DeLion†	Formulation Engineering to Improve Drug Dissolution Kinetics in GI Tract
Davis, Barrett Freeland	Poster #1462 presented 7/25 @ 12:00-1:00pm	Julia Janina Szela†	Laser-Induced Graphene Electrochemical Sensing for Low-Cost Point of Care Devices
Davis, Barrett Freeland	Poster #1467 presented 7/25 @ 12:00-1:00pm	Matthew T Zegarski†	Cleanroom-free Double Nanohole Plasmonic Biosensor Fabrication
Davis, James C	Poster #1437 presented 7/25 @ 12:00-1:00pm	Martin Detloff†	Exploring the extent of similarities in software failures across industries using LLM's
Davis, James C	Poster #1468 presented 7/25 @ 12:00-1:00pm	Bryan Zhang†	Enhancing Software Failure Analysis through Semantic Similarity and Knowledge Graph Modeling
Dawood, Osama Ragab Ahmed	Poster #1234 presented 7/25 @ 10:30-11:30am	Isabella Freitas† Monique Mariae Morse†	Prospects for Quantum Entanglement at the High Luminosity Large Hadron Collider (HL-LHC)
de Picoli Ferreira, Tatiana	Talk #7075 presented 7/25 @ 2:00pm	Haixuan Huang†	Superconducting Diode Effect in Two- dimensional Topological Insulator Edges and Josephson Junctions
Deb, Aarya	Poster #1450 presented 7/25 @ 12:00-1:00pm	Ismael A Luna†	UGV IoT Deployment System

Mentor Name	Presentation	Students	Title
Deka, Rajdeep	Poster #1223 presented	Mateo Colorado Zapata†	Catalytic Depolymerization of Lignin of
	7/25 @ 10:30-11:30am		Corn Stover and Sawdust for Medium- Density Fiberboard Production
Deming, Brody Alan	Talk #7090 presented 7/25 @ 3:00pm	Rineet Ranga† Akila Abeyaratna‡	Evaluation of Ketamine's Prosocial Effects in Scn2a-deficient Mice
Deolia, Akshay	Talk #7066 presented 7/25 @ 1:00pm	Gabriel Brandt de Toledo†	Vibrating piezoelectric membranes for water filtration applications
Dewanatha, Parikesit Pandu	Talk #7044 presented 7/25 @ 12:40pm	Nikolai Baranov†	Electric Vehicle (EV) Thermal System Design Optimization
Dick, Jeffrey Edward	Poster #1272 presented 7/25 @ 10:30-11:30am	Keeley Vonne Farmer†	The investigation and optimization of MIP-based PFAS sensing across sample matrices
Dick, Jeffrey Edward	Talk #7004 presented 7/25 @ 9:20am	Amber K Wang†	Using Voltammetry to Probe Mass Transport in an Acoustically Levitated Droplet
Dick, Jeffrey Edward	Talk #7023 presented 7/25 @ 10:40am	Yashvi Choudhary†	Analysing matrix complexity for improved aptamer sensor calibration
Dihel, Logan	Talk #7029 presented 7/25 @ 11:40am	Joseph Michael McAlear†	Tau Estimation and 1 DOF Control using ORB Features
Dikshit, Abhijnan	Poster #1459 presented 7/25 @ 12:00-1:00pm	Milan Edward Rahmani† Sota Yanagisawa‡	Validation and Analysis for Full Scale Avian Inspired Flapping Wing Aerial Vehicle (FWAV)
Dikshit, Abhijnan	Talk #7011 presented 7/25 @ 9:20am	Sota Yanagisawa† Milan Edward Rahmani‡	Actuation strategy for an avian-inspired flapping-wing aerial vehicle (FWAV) to achieve stable flapping-gliding transition
Dilkes, Brian	Poster #1411 presented 7/25 @ 12:00-1:00pm	Gage Ryan Edward Gottman†	Metabolite extraction and analysis of High Chlorophyll Fluorescence (HCF) in Sorghum mutants
Ding, Chang	Poster #1619 presented 7/25 @ 1:30-2:30pm	Daniel Matthew Chambers†	Zebrafish Non-Homologous End Joining Knock-In
Dinklage, Felix	Poster #1642 presented 7/25 @ 1:30-2:30pm	Ahhyun Lee†	Novel Molecular and Cardiac Imaging Paradigms for Precision Medicine in Aortopathy
Dong, Ziyu	Poster #1659 presented 7/25 @ 1:30-2:30pm	Maitreyee Panini Telang†	Chemogenetic Tools in Zebrafish: Visualizing and Manipulating Bioelectric Activity
Dong, Ziyu	Talk #7110 presented 7/25 @ 4:20pm	Abigail Martin†	Application of genetically encoded voltage indicators to zebrafish tissue-specific bioelectricity
Dou, Letian	Poster #1026 presented 7/25 @ 9:00-10:00am	Chenyu Li†	Bulky phenylethyl-ammonium organic ligand for 2D perovskite nanowire growth
Dou, Letian	Talk #7088 presented 7/25 @ 3:20pm	Anika Bhoopalam†	Novel Low-Bandgap Perovskites for Solar Cells Using a Computational and Experimental Approach
Doudareva, Natalia	Poster #1241 presented 7/25 @ 10:30-11:30am	Niki Hamraei†	Deciphering the Roles of Petunia SMAX1 Isoforms in the KAI2-Mediated Signaling Pathway
Duan, Runlin	Poster #1007 presented 7/25 @ 9:00-10:00am	Rishika Bera†	PrimerCurator: An LLM Powered Multimedia Educational Content Design and Creation Tool
Dunlap, Caitlin Elizabeth	Poster #1669 presented 7/25 @ 1:30-2:30pm	Alexander Higgins†	Dark-Field Absorbance Circular Dichroism of Oriented Chiral Thin Films
Dyke, Shirley J	Poster #1022 presented 7/25 @ 9:00-10:00am	Aaryan Sachin Lath†	Lunar Habitat Resilience: Vibration Isolation and Fatigue Study
Dykhuizen, Emily	Poster #1471 presented 7/25 @ 12:00-1:00pm	Brett Andrew Anderson†	Characterizing In-vitro Prostate Cancer Cell Responses to Combination Treatment
Ekenstedt, Kari J	Talk #7047 presented 7/25 @ 12:40pm	Namju Kim†	Identification of a Novel Candidate Variant in CLPX for Spinocerebellar Ataxia in a Mixed Breed Dog

Mentor Name	Presentation	Students	Title
Erk, Kendra A	Poster #1036 presented	Logan Mick†	The Influence of a Novel Hydrogel
	7/25 @ 9:00-10:00am		Composition on Mechanical Properties of
			High-Performance Mortar
Erk, Kendra A	Poster #1270 presented	Evan R Williams†	Interfacial Phase Behavior and Growth of
	7/25 @ 10:30-11:30am		Hexagonal Phase in Concentrated
			Lamellar Sodium Laureth Sulfate Solution
			and Cetostearyl Alcohol Crystal
Estrada Gomez, Ana	Poster #1618 presented	Belen Noemi Carrasco	Harnessing Real-Time Sensor Data: A
,	7/25 @ 1:30-2:30pm	Grandes†	Novel Approach to Quality Control in
	1,20 € 2.00 2.00 μ		Manufacturing
Evans, Janice Perry	Poster #1628 presented	Defne Ekici†	Applications of Atomic Force Microscopy
Evans, sameer erry	7/25 @ 1:30-2:30pm	Deme Ender	to Assess the Mechanics of Oocytes
Evans, Janice Perry	Talk #7059 presented	Kristina Nicole Lodenquai†	Does Calcium/Calmodulin Protein Kinase
Evans, Janice Ferry	7/25 @ 1:20pm	Kristilla Micole Lodeliquali	II (CaMKII) Affect Sperm-Induced Actin
	7/25 @ 1:20pm		
			Remodeling in Fertilized Mammalian
			Eggs?
Faivre, Kyle Timothy	Poster #1612 presented	Sho Amagai†	Versatile Covalent Molecular Cages: From
	7/25 @ 1:30-2:30pm	Levi M Johnson†	Synthesis to Therapeutic Applications
Fawley, Jacob Ryan	Poster #1220 presented	Andres Moran†	Characterizing Chromatin Assembly
	7/25 @ 10:30-11:30am	Shelby Sliger‡	Factor Capabilities of the ATP-dependent
		Joshua Paul Kaluf‡	Chromatin Remodeler PICKLE (PKL) in
			Arabidopsis thaliana
Fawley, Jacob Ryan	Poster #1424 presented	Elysia Marlena Uggen†	Proximity Labeling to Identify Transient
	7/25 @ 12:00-1:00pm	Joshua Paul Kaluf‡	Protein Interactions with ATP-dependent
		Shelby Sliger‡	Chromatin Remodeler PICKLE
Fawley, Jacob Ryan	Poster #1475 presented	Amanda Renee Schoonmaker†	Investigating the Role of INO80 in
,,	7/25 @ 12:00-1:00pm	Joshua T Stephenson‡	H3K27me3 Homeostasis and Pickle Root
	, , ,	·	Phenotype in Arabidopsis thaliana
Fawley, Jacob Ryan	Talk #7076 presented	Shelby Sliger†	Characterizing the role of histone variant
	7/25 @ 2:20pm	3 1, 1 81	H2A.Z in heat-responsive gene
	1,10 € 1.100		expression in Arabidopsis thaliana
Felicelli, Andrea Lorena	Poster #1634 presented	Ricardo Andrews Huertas†	Biodegradable Hexagonal Boron Nitride
Teneeni, Anarea Eorena	7/25 @ 1:30-2:30pm	Theat as y that ews that tas	Films for Bio-Inspired Radiative Cooling
Ferdausi, Nourin	Poster #1251 presented	Jesus Noriega†	Structural characterization of a novel
Terdausi, Nouriii	7/25 @ 10:30-11:30am	Jesus Noriega	stapled peptide inhibitor bound to the
	7/25 @ 10.50 11.50dill		BAM complex
Forroira Christina P	Talk #7005 presented	Hurshal Pol†	Unveiling PFOS Neurotoxicity: Spatial
Ferreira, Christina R	7/25 @ 9:40am	Hurshai Pori	Analysis of Neurotransmitters with DESI-
	7/25 @ 9.40aiii		· ·
	D : #4000		MSI
Forero velez, Oscar Daniel	Poster #1022 presented	Aaryan Sachin Lath†	Lunar Habitat Resilience: Vibration
	7/25 @ 9:00-10:00am		Isolation and Fatigue Study
Forney, James D	Poster #1216 presented	Laila Fortson†	Validating and developing the AID system
	7/25 @ 10:30-11:30am		for anti-fungal drug discovery
Foti, Daniel J	Poster #1002 presented	Deanna Durben†	Effects of PFAS exposure on reward
	7/25 @ 9:00-10:00am		sensitivity, cognition, and psychiatric
			symptomology
Franklin, Nicole Lin	Poster #1470 presented	Jiying Zou†	Fabrication of Temperature-sensitive
	7/25 @ 12:00-1:00pm		Additives for PFAS-free Fire Fighting
			Foam Formulations
Fritsch, Tyler Parker	Poster #1050 presented	Drake William Strait†	Characterization and immunotherapeutic
Fritsch, Tyler Parker			targeting of the tumor microenvironment
Fritsch, Tyler Parker	7/25 @ 9:00-10:00am		
		Ethan Andrew Zhang†	
Gan, Dongming	Talk #9026 presented	Ethan Andrew Zhang†	Design and Development of a Soft
Gan, Dongming	Talk #9026 presented 7/25-8/01 virtually	_	Design and Development of a Soft Variable Stiffness Robotic Finger
	Talk #9026 presented 7/25-8/01 virtually Poster #1229 presented	Ethan Andrew Zhang† Joon Kang†	Design and Development of a Soft Variable Stiffness Robotic Finger Sustainable Manufacturing: An analysis
Gan, Dongming	Talk #9026 presented 7/25-8/01 virtually	_	Design and Development of a Soft Variable Stiffness Robotic Finger Sustainable Manufacturing: An analysis of environmental impact associated with
Gan, Dongming	Talk #9026 presented 7/25-8/01 virtually Poster #1229 presented	_	Design and Development of a Soft Variable Stiffness Robotic Finger Sustainable Manufacturing: An analysis of environmental impact associated with ammonia emissions in North Carolina
Gan, Dongming	Talk #9026 presented 7/25-8/01 virtually Poster #1229 presented	_	Design and Development of a Soft Variable Stiffness Robotic Finger Sustainable Manufacturing: An analysis of environmental impact associated with

Mentor Name	Presentation	Students	Title
Garje, Yash Ajay	Poster #1041 presented	Kayla Renae Phillips†	The PITCH Semiconductors Summer
	7/25 @ 9:00-10:00am		Program: What High School Students
			Learned?
Garje, Yash Ajay	Poster #1458 presented	Hemisha Shardul Patel†	High School Students in Engineering
Carland Fliashath F	7/25 @ 12:00-1:00pm	Marray Crass Laskewskit	Design Project: Teamwork and Decisions
Garland, Elisabeth E	Poster #1021 presented 7/25 @ 9:00-10:00am	Morgan Grace Laskowski†	Structural Studies of Phospholipase C Enzymes
Garner, Allen L	Poster #1406 presented	Dania M Zein†	Transitions Between Electron Emission
Garrier, Alleri L	7/25 @ 12:00-1:00pm	Dania Wi Zeiii	Mechanisms in Semiconductors
Garner, Allen L	Poster #1603 presented	Nicodemus M O'Brian†	Electron Emission Measurements in
	7/25 @ 1:30-2:30pm		Schottky Barrier Diodes Exposed to
	, -		Ionizing Radiation
Garner, Allen L	Poster #1606 presented	Alexander Gregory Sinelli†	Theoretical Assessment of the Transition
	7/25 @ 1:30-2:30pm	Sree Harsha Naropanth	Between Electron Emission Mechanisms
		Ramamurthy‡	for Nonplanar Diodes
		Allison M Komrska‡	
Garner, Allen L	Poster #1607 presented	Parker Smith†	Assessment of Composite Materials for
	7/25 @ 1:30-2:30pm		Radiation Protection using OpenMC
Corner Allen I	Decte: #1000	Kailum D Ctaadt	Simulations Composite Material Development for
Garner, Allen L	Poster #1608 presented	Kailyn D Steed†	Composite Material Development for Simultaneously Shielding Neutron and
	7/25 @ 1:30-2:30pm		Gamma Radiation
Gelvin, Stanton B	Poster #1247 presented	Demi White†	Investigating Protein Interactions in
Gervin, Stanton B	7/25 @ 10:30-11:30am	Bellii Willie	Agrobacterium-Mediated T-DNA
	7,25 @ 10.50 11.500		Integration
Ghajar-Rahimi, Elnaz	Poster #1642 presented	Ahhyun Lee†	Novel Molecular and Cardiac Imaging
, ,	7/25 @ 1:30-2:30pm	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Paradigms for Precision Medicine in
	,		Aortopathy
Ghodsi, Zahra	Poster #1040 presented	Michelle Perez Aguilar†	Compromising Machine Learning Systems
	7/25 @ 9:00-10:00am		via Data Loader Manipulation
Ghosh, Neil	Poster #1635 presented	Junwoo Jang†	Nanoscale Heat Transfer in
	7/25 @ 1:30-2:30pm		Semiconductor Thin Films
Ghosh, Shreya	Talk #9014 presented	David Talabadze†	VIP AMP
	7/25-8/01 virtually		
Gkritza, Nadia	Poster #1207 presented	Olivia J Kurtz†	Techno-Economic Feasibility of
	7/25 @ 10:30-11:30am		Concurrent Megawatt and Dynamic Wireless Power Transfer Charging
			Infrastructure for Freight Vehicles along
			an Interstate Corridor
Gkritza, Nadia	Talk #7069 presented	Sai Shashank Mukkera†	Analyzing the Impacts of Temperature on
•	7/25 @ 2:00pm		Electric Vehicle Adoption Rates Across
			Multiple US States
Goergen, Craig	Poster #1227 presented	Joslyn Renee Ferguson†	The Effects of the SGLT2 Inhibition on
	7/25 @ 10:30-11:30am	Niharika Narra‡	Cardiac Function in Mice with Duchenne
		John Patrick Salvas*	Muscular Dystrophy
Goergen, Craig	Poster #1230 presented	Daniel Ethan Kelley†	Focused Ultrasound Driven Drug Release
Goorgon Craig	7/25 @ 10:30-11:30am Poster #1461 presented	Natalie Elizabeth Romick‡ Paul William Swift†	from Microrobot in Artificial Colon
Goergen, Craig	7/25 @ 12:00-1:00pm	raui wiiilaiii SWIIL!	Long-term Effects of Repeated, Episodic Heat Exposure on Cardiac Structure and
	7,23 @ 12.00-1.00pill		Function in Aged, Obese Mice
Goergen, Craig	Poster #1642 presented	Ahhyun Lee†	Novel Molecular and Cardiac Imaging
- 0- /0	7/25 @ 1:30-2:30pm	/	Paradigms for Precision Medicine in
	. 5		Aortopathy
Goergen, Craig	Talk #7040 presented	Niharika Narra†	Thrombus Characterization in Abdominal
	7/25 @ 11:20am		Aortic Aneurysm and Aortic Dissection
			Models Using Histology and Scanning
			Electron Microscopy
Goni Cortes, Joaquin	Poster #1670 presented	Xinwan Hu†	Assessing Robustness in fMRI
	7/25 @ 1:30-2:30pm		Connectome Identification: Effects of
			Scan Intervals and Distance Metrics

Mentor Name	Presentation	Students	Title
Gonzalez, Javier M	Poster #1067 presented	Royalty Hightower†	Impact of long-term best management
	7/25 @ 9:00-10:00am		practices on soil organic carbon in Midwest cropland
Gonzalez, Javier M	Poster #1276 presented 7/25 @ 10:30-11:30am	Shawn Saturday†	Changes in soil properties in steep small watersheds
Gore, Jay	Poster #1648 presented 7/25 @ 1:30-2:30pm	Nashe Bumi Mucharambeyi†	Extinction Velocities of Droplet Flames in Forced Convection
Gounder, Rajamani P	Poster #1401 presented	Kirshaun McGhee†	Methane Dehydroaromatization of
Gourider, Rajamam F	7/25 @ 12:00-1:00pm	Kilshauf Wiconee	Synthesized Zeolite Templated Carbon to Access Thermal and Structural Stability
Gounder, Rajamani P	Poster #1613 presented	Arjun Singh Bhadoria†	The Effect of Zeolitic Acids on the
Counaci, Najamam i	7/25 @ 1:30-2:30pm	/ ujun singi sindasiid	Formation of Hydronium Ions in Liquid Water
Gowher, Humaira	Poster #1217 presented	Juan Alberto Gomez-Solis†	CTCF knockdown rescues the MAPK
	7/25 @ 10:30-11:30am	Isaiah K Mensah*	signaling pathway in Vezf1 null murine embryonic stem cells
Gowher, Humaira	Poster #1664 presented	Bevan Mathew Ambrose†	Role of Dnmt3bas in Epiblast Gene
	7/25 @ 1:30-2:30pm		Expression and Epigenetic Dynamics in Stem Cell Development
Gray, Ryan Hunter	Talk #7064 presented 7/25 @ 1:00pm	Richard Lawrence†	Quantifying Rubisco Polymerization within Carboxysomes
Gregor, Justin Bradley	Poster #1408 presented	Lauren Rose Connors†	Investigating the role of Erg5 in azole
	7/25 @ 12:00-1:00pm		susceptibility in Candida glabrata
Gulewicz, Demetrius	Poster #1639 presented	Mason J Kramer†	Controls Design for Regulating Flow in a
	7/25 @ 1:30-2:30pm		Single-phase Cooling Loop
Guo, Qi	Poster #1629 presented	Alan Fu†	Developing Ultra Low Power Depth
.	7/25 @ 1:30-2:30pm		Sensing Through Differential Defocus
Gupta, Vanshika	Poster #1273 presented 7/25 @ 10:30-11:30am	Sadie A Poirier† Yashvi Choudhary‡	Silver leakage in commercially available and bipolar reference electrodes (BPREs):
	7/25 @ 10.30-11.30am	Megan Leigh Hill* Keeley Vonne Farmer*	a TNBC toxicity study
Gupta, Vanshika	Talk #7023 presented	Yashvi Choudhary†	Analysing matrix complexity for improved
Capta, Varisinka	7/25 @ 10:40am	rushivi endudiary	aptamer sensor calibration
Gustafson, Sarah Margaret	Talk #7061 presented	Nina A Borkowski†	Synthetic methods to control Al siting
	7/25 @ 1:00pm	Talana N Small‡	and crystallite size in MFI zeolites for
			propene oligomerization
Halbrooks, David Neal	Poster #1010 presented	Hannah Y Chun†	Micro- and Nano-Precision Testing on
	7/25 @ 9:00-10:00am	Billi (C) Blit	Low-Temperature Solders
Halbrooks, David Neal	Poster #1259 presented 7/25 @ 10:30-11:30am	Rishipreet Singh Dhir†	Micro- and Nano-Precision Testing On Low Temperature Solders
Hall, Mark C	Poster #1216 presented	Laila Fortson†	Validating and developing the AID system
•	7/25 @ 10:30-11:30am		for anti-fungal drug discovery
Hall, Mark C	Poster #1412 presented 7/25 @ 12:00-1:00pm	Nathan Michael Henderson†	Cdc14 Targeted Antifungal Drug Discovery
Halurkar, Manasi Suchit	Poster #1637 presented 7/25 @ 1:30-2:30pm	Hina Leilani Kadono†	Phenotypic characterization of an SCN2A variant found in a child with autism using hiPSC-derived cortical organoids
Hayes, Daniel Christian	Talk #7026 presented	Kamran Hajibayli†	Solution-Processed Synthesis and
,,	7/25 @ 10:40am	, ,	Optoelectronic Characterization of
			Chalcogenide Perovskite Nanomaterials:
			The Case of (BaxSr1-x)ZrS3
Hearn, Chase Taylor	Poster #1419 presented	Eleanore Margaret	Changes in development and metabolism
	7/25 @ 12:00-1:00pm	Malinowski†	in an inducible lignin-modified
Hail Duittanii Nicola	Tall: #7050 massages d	Nillate Landin+	Arabidopsis mutant
Heil, Brittany Nicole	Talk #7050 presented 7/25 @ 12:00pm	Nikki Leslie†	Targeting GRK5 in Metastatic Cancer: Structural Insights and Therapeutic
	7/23 @ 12.00pm		Evaluation of Novel Inhibitors
Heil, Joseph Nathanael	Talk #7014 presented	Chunge Li†	Investigation of Hydrogen Evolution and
, ,	7/25 @ 10:20am		local pH in Aqueous Zinc Ion Batteries

Mentor Name	Presentation	Students	Title
Hein, Timothy Francis	Talk #9012 presented	Colin James Chambers†	FPGA MUX Space Optimization
	7/25-8/01 virtually		
Helie, Sebastien	Talk #7034 presented 7/25 @ 11:20am	Alpamys Sultanbek† Hailey Brianna Haglid† Justin Shakergayen‡ Katelyn Krishan Shah‡ Dalton J Aaker‡ Aiyan Sarwar Alam‡ Brian Martin Dodd‡ Brian Song‡ Charles Paul Patterson‡ Christian Alexander Howard‡ Eduard Filip Tanase‡ Yi-Huan Chen‡ Jacob	Categorizing stress in college-age students through EEG data and ML
Henager, Marissa Elaine	Poster #1042 presented 7/25 @ 9:00-10:00am	Ankita Prasad†	Development of Elastin-Like Polypeptide Based Nucleic Acid Delivery System for Treatment of Bladder Cancer
Henager, Marissa Elaine	Poster #1453 presented 7/25 @ 12:00-1:00pm	Louden James Maciag†	Improvement in Epichlorohydrin Coupling for More Effective Drug Synthesis
Hicks, Talon	Poster #1640 presented 7/25 @ 1:30-2:30pm	Shreya Krishnan†	Molecular Mechanisms of Adenylyl Cyclase-Calmodulin-Forskolin Binding in Adenylyl Cyclase 1
Ho, Ka ying	Talk #7099 presented 7/25 @ 4:00pm	Owen T Odney† William Andrew Messman*	Using Data-Driven Equation Discovery Algorithms to Show a Nonlinear Schrodinger Equation Description of Atmospheric Blocking
Hoda, Smriti	Poster #1222 presented 7/25 @ 10:30-11:30am	Matthew Tabrisky† Krishna P Patel‡	The Set1 histone H3K4 methyltransferase alters Candida glabrata pathogenesis by controlling the expression of genes involved in cell wall formation.
Hood, Kaitlyn T.	Poster #1070 presented 7/25 @ 9:00-10:00am	Alexander G Kelley†	Modeling Deformable Cells Using Spherical Harmonics
Hoskins, Tyler D	Poster #1231 presented 7/25 @ 10:30-11:30am	Cora Jane Reynolds† Lail Shaw† Hallie Grace Jackson‡	Can Hemoglobin binding models be used to predict toxicity of mixtures of Forever Chemicals???
Hossain, S S M Tareq	Talk #7088 presented 7/25 @ 3:20pm	Anika Bhoopalam†	Novel Low-Bandgap Perovskites for Solar Cells Using a Computational and Experimental Approach
Hossain, Samera	Poster #1406 presented 7/25 @ 12:00-1:00pm	Dania M Zein†	Transitions Between Electron Emission Mechanisms in Semiconductors
Hossain, Samera	Poster #1608 presented 7/25 @ 1:30-2:30pm	Kailyn D Steed†	Composite Material Development for Simultaneously Shielding Neutron and Gamma Radiation
Howard, Madison Mckensi	Poster #1646 presented 7/25 @ 1:30-2:30pm	Maria Macias† Angelica Sofia Gonzalez-Ng*	Exploring the dynamics of breast cancer metastasis in relation to the high throughput magnetic actuation platform and lung respiration rates
Hu, Hanyao	Poster #1677 presented 7/25 @ 1:30-2:30pm	Chadi Harmouche†	Energy-Optimal Arrival Route Planning for Operations of Multiple Unmanned Aerial Vehicles
Huang, Wei-Ling	Poster #1403 presented 7/25 @ 12:00-1:00pm	Joyce M Rivera Sanchez†	Propylene hydrogenation by main group metal Ga+3 on SiO2 and Al2O3 supported catalysts
Hunter, Jacob Grant	Talk #7089 presented 7/25 @ 3:40pm	Albert Li [†]	Enhancing Human Psychomotor Learning Through Real-Time Cognitive Feedback
Hussain, Muhammad Mustafa	Talk #7022 presented 7/25 @ 10:20am	Junhan Shen†	ARMS: Reconfigurable Microelectronic System for Autonomous Movement and Collaboration

Mentor Name	Presentation	Students	Title
Hutzel, William	Poster #1275 presented	Janessa M Rieser†	Implementation of a Heat Recovery
	7/25 @ 10:30-11:30am	Chaoyi Hu†	Chiller In A Solar Thermal Loop
Hyun, Nak-seung Patrick	Talk #7003 presented	Andrew Lewis Hadikusumo†	Foldable FWV Fabrication and Control
	7/25 @ 9:00am		Analysis
Hyun, Nak-seung Patrick	Talk #7029 presented	Joseph Michael McAlear†	Tau Estimation and 1 DOF Control using
	7/25 @ 11:40am		ORB Features
Iglesia, Enrique	Poster #1613 presented	Arjun Singh Bhadoria†	The Effect of Zeolitic Acids on the
	7/25 @ 1:30-2:30pm		Formation of Hydronium Ions in Liquid
			Water
Imran, Zainab	Poster #1207 presented	Olivia J Kurtz†	Techno-Economic Feasibility of
	7/25 @ 10:30-11:30am		Concurrent Megawatt and Dynamic
			Wireless Power Transfer Charging
			Infrastructure for Freight Vehicles along
Isaas Aragonas Dobralia	Tall, #7000 procented	Fradrick C Mungait	an Interstate Corridor
Isaac-Aragones, Debraliz	Talk #7008 presented	Fredrick G Mungai†	Predictive Modeling and Experimental Observation of a Small-Scale Two-Phase
	7/25 @ 9:20am		Loop Thermosyphon
Ivey, Paula-Marie	Poster #1035 presented	Tyler Merrill†	Membrane-Less Protein Condensates
ivey, radia-iviarie	7/25 @ 9:00-10:00am	Tyler Merriii	Wellibrane-Less Frotein Condensates
lyer-Pascuzzi, Anjali	Poster #1444 presented	Shreya Joshy†	Investigating the Plant Immune Response
Tyer T ascazzi, Arijan	7/25 @ 12:00-1:00pm	Brooke Allison Pilkey‡	to Ralstonia Exopolysaccharide
	7725 @ 12.00 1.00pm	Silas Henry Buchanan‡	to Naistoria Exoporysaccinariae
lyer-Pascuzzi, Anjali	Poster #1651 presented	Brooke Allison Pilkey†	Elucidation of Tomato Immune
Tyer raseazzi, ranjan	7/25 @ 1:30-2:30pm	Shreya Joshy‡	Responses in Response to Ralstonia
	7,25 € 2.56 2.56β	Silas Henry Buchanan‡	Exopolysaccharides
Jagannathan, Suresh	Poster #1464 presented	Kartavya Vashishtha†	Data Staleness in Irmin over Partial
	7/25 @ 12:00-1:00pm		Quorum Datastores
Jain, Anika	Talk #7065 presented	Anouka Saha†	Protein Structure Modeling using Deep-
,	7/25 @ 1:20pm	David Huang‡	Learning
	, - ,	Tsukasa Nakamura‡	
		Joon Hong Park‡	
		Pranav Punuru‡	
Jain, Neera	Poster #1024 presented	Ilhoon Lee†	Online Updating of Cognitive State
	7/25 @ 9:00-10:00am		Models in Human-Automation
			Interaction
Jain, Neera	Poster #1639 presented	Mason J Kramer†	Controls Design for Regulating Flow in a
	7/25 @ 1:30-2:30pm		Single-phase Cooling Loop
Jain, Neera	Talk #7044 presented	Nikolai Baranov†	Electric Vehicle (EV) Thermal System
	7/25 @ 12:40pm		Design Optimization
Jain, Neera	Talk #7073 presented	Tyler Harrison Hsieh†	Leveraging Real-Time Eye Tracking
	7/25 @ 2:20pm		Metrics to Infer Cognitive States During
			Automated Driving
Jain, Neera	Talk #7089 presented	Albert Li [†]	Enhancing Human Psychomotor Learning
Internal May 1	7/25 @ 3:40pm	Labor Manual D. 1.1.1.	Through Real-Time Cognitive Feedback
Jaiswal, Natasha	Talk #7035 presented	John Ward Robbins†	"Metabolic Signaling and Skeletal Muscle
	7/25 @ 11:40am		Health: Investigating AKT Pathway
			Impacts on Neuromuscular Junction
Jajal, Purvish Jatin	Poster #1060 presented	Edward Falcon Navarro†	Plasticity"
Jajai, rui višii Jaliii	7/25 @ 9:00-10:00am		Real-Time Voice Commands for Musical
	1/23 @ 3.00-10.00am	Ryan Thomas Jordan* Tim Nadolsky*	Accompaniment
		Ping-Hung Nick Ko*	
		Caasi Nketiah Boakye*	
		Minsoo Oh*	
		Brian Mingyang Qi*	
	1		
		I Δnthony Wang*	
		Anthony Wang* Connor Bradley Frey*	
laial Purvich latin	Poster #1636 presented	Connor Bradley Frey*	Enhancing Cello Performance through
Jajal, Purvish Jatin	Poster #1636 presented 7/25 @ 1:30-2:30pm	_	Enhancing Cello Performance through Real-Time Posture Evaluation

Mentor Name	Presentation	Students	Title
Jajal, Purvish Jatin	Talk #7000 presented 7/25 @ 9:00am	Ryan Thomas Jordan† Tim Nadolsky* Edward Falcon Navarro* Ping-Hung Nick Ko* Caasi Nketiah Boakye* Minsoo Oh* Brian Mingyang Qi* Anthony Wang*	Real-Time Musical Accompaniment for Non-Improvised Music
Jamil, Ishat Raihan	Poster #1260 presented 7/25 @ 10:30-11:30am	Connor Bradley Frey* Jack Rearden Ferlazzo†	Nanoscale 3D Printing using Two-Photon Lithography for Biomedical and Electronic Applications
Jayant, Krishna	Poster #1463 presented 7/25 @ 12:00-1:00pm	Andres Uzcategui†	Morphological characterization of anatomically defined Layer 5B pyramidal neuron subtypes
Jeevanandam, Sibibalan	Talk #7073 presented 7/25 @ 2:20pm	Tyler Harrison Hsieh†	Leveraging Real-Time Eye Tracking Metrics to Infer Cognitive States During Automated Driving
Jeon, Dayeon	Poster #1063 presented 7/25 @ 9:00-10:00am	Bea Olivia Cabot†	Repeatability of Cranial Morphometrics in the Pig
Jewell, Joseph S	Poster #1025 presented 7/25 @ 9:00-10:00am	Matthew S Leight† Eleanor Captola Hostetler‡	Shock Tube Experimentation and High- Speed Shock Wave Imaging of Atmospheric-Like Particles
Jiang,	Talk #7002 presented 7/25 @ 9:40am	Michael Cheng†	Contrastive Learning in Language Models for Software Vulnerability Detection
Jiang, Wen	Talk #7058 presented 7/25 @ 1:00pm	Maria Munoz Perez†	Image Recognition of Helical EMDB Structures
Jin, Guangzhen	Talk #9003 presented 7/25-8/01 virtually	Anjali Rajesh†	Open OnDemand Dashboard for Purdue's Anvil HPC Cluster
Jin, Guangzhen	Talk #9005 presented 7/25-8/01 virtually	Richie Tan†	Open OnDemand Dashboard Development for the Anvil Supercomputer
Johns, Cortland Hannah	Poster #1227 presented 7/25 @ 10:30-11:30am	Joslyn Renee Ferguson† Niharika Narra‡ John Patrick Salvas*	The Effects of the SGLT2 Inhibition on Cardiac Function in Mice with Duchenne Muscular Dystrophy
Johns, Cortland Hannah	Talk #7040 presented 7/25 @ 11:20am	Niharika Narra†	Thrombus Characterization in Abdominal Aortic Aneurysm and Aortic Dissection Models Using Histology and Scanning Electron Microscopy
Johnson, David R	Poster #1447 presented 7/25 @ 12:00-1:00pm	Manila Kunwar† Ruey-Bin Tsai‡ Junyeong Ahn‡	Characterization and Improvement of Vegetable Oils as Quenchants for Heat Treatment of Metals
Johnson, David R	Poster #1610 presented 7/25 @ 1:30-2:30pm	Junyeong Ahn† Manila Kunwar‡ Ruey-Bin Tsai‡	Characterization of Vegetable-Based Oils as Sustainable Quench Oil Replacements and Practicality Assessments
Johnson, Jason	Poster #1260 presented 7/25 @ 10:30-11:30am	Jack Rearden Ferlazzo†	Nanoscale 3D Printing using Two-Photon Lithography for Biomedical and Electronic Applications
Johnson, Mark	Poster #1600 presented 7/25 @ 1:30-2:30pm	William Rowan Cunningham† Maxwell Frank Michalec* Om Gupta* Fahad Aloufi*	Optimizing Vector Memory Accesses in a RISC-V Processor
Johnson, Mark	Poster #1605 presented 7/25 @ 1:30-2:30pm	Abhiram Saridena†	Implementation of RISC-V "K" extension for scalar cryptography
Johnson, Mark	Poster #1665 presented 7/25 @ 1:30-2:30pm	Indrayudh Chowdhury†	Verification of Interrupt Controller Using Universal Verification Methodology
Johnson, Mark	Talk #7080 presented 7/25 @ 2:40pm	Abhijay Achukola† Aniket Chatterjee†	Implementing Compressed Instructions in a RISC-V Microcontroller
Johnson, Mark	Talk #9016 presented 7/25-8/01 virtually	Justin Yasuumi† Yi-Hsuan Cheng†	A Command-Line Framework for AFTx07

Mentor Name	Presentation	Students	Title
Johnson, Mark	Talk #9017 presented	Michael Jeffery Dick†	SoCET Memory System Development
	7/25-8/01 virtually	William Milne‡	
Johnson, Mark	Talk #9027 presented	Akshath Raghav†	SoCET Zicond
	7/25-8/01 virtually	Anas Abughali*	
Ju, Tingting	Poster #1417 presented	Erica Ann Long†	Characterization of Prevotellaceae in the
	7/25 @ 12:00-1:00pm		pig gut
Jun, Martin Byung-Guk	Poster #1267 presented	Vidit Hemal Patel†	AI-powered data analysis and
	7/25 @ 10:30-11:30am		automation for smart manufacturing
Jung, Andreas	Poster #1234 presented	Isabella Freitas†	Prospects for Quantum Entanglement at
	7/25 @ 10:30-11:30am	Monique Mariae Morse†	the High Luminosity Large Hadron
			Collider (HL-LHC)
Jung, Andreas	Poster #1457 presented	Angie Catalina Parra	Multifunctional integrated cooling
	7/25 @ 12:00-1:00pm	Ovelencio†	support structures for future HEP Silicon
		Pedro Daniel Soto Rodriguez‡	Tracker Detectors
Jung, Nusrat	Poster #1451 presented	Minh An Nguyen Luu†	Laser Diffraction-Based Particle Size
	7/25 @ 12:00-1:00pm		Distribution Analysis of Indoor Settled
			Dust
Kaboolian, Matthew	Poster #1270 presented	Evan R Williams†	Interfacial Phase Behavior and Growth of
	7/25 @ 10:30-11:30am		Hexagonal Phase in Concentrated
			Lamellar Sodium Laureth Sulfate Solution
			and Cetostearyl Alcohol Crystal
Kalyanam, Rajesh	Talk #9003 presented	Anjali Rajesh†	Open OnDemand Dashboard for Purdue's
	7/25-8/01 virtually		Anvil HPC Cluster
Kalyanam, Rajesh	Talk #9005 presented	Richie Tan†	Open OnDemand Dashboard
	7/25-8/01 virtually		Development for the Anvil
			Supercomputer
Kant, Shivam	Poster #1064 presented	Christian A Durbin†	Deficits in nucleus accumbens activity are
	7/25 @ 9:00-10:00am		associated with social behavior deficits in
			Scn2a-deficient mice
Karava, Panagiota	Poster #1432 presented	Pablo Cambra Valcarcel†	Performance Assessment of a Novel
	7/25 @ 12:00-1:00pm		Wall-Embedded Micro Heat Pump for
			Radiant Heating in Buildings
Karcher, Darrin M	Poster #1071 presented	Rachel Elizabeth Kuhn†	Investigation of the yolk color differences
	7/25 @ 9:00-10:00am	Abbilynne Nicole Elder†	with Orange Corn versus Yellow Corn
		Dylan Wade Seets†	within laying chickens.
Karcher, Darrin M	Poster #1075 presented	Dylan Wade Seets†	Investigating the application of Reference
	7/25 @ 9:00-10:00am	Carl Anthony Kroger‡	Point Indentation as a possible tool to
			determine quality metrics for excised
			keel bones.
Karmarkar, Sushrut	Poster #1457 presented	Angie Catalina Parra	Multifunctional integrated cooling
	7/25 @ 12:00-1:00pm	Ovelencio†	support structures for future HEP Silicon
		Pedro Daniel Soto Rodriguez‡	Tracker Detectors
Katsamba, Ioanna	Poster #1634 presented	Ricardo Andrews Huertas†	Biodegradable Hexagonal Boron Nitride
	7/25 @ 1:30-2:30pm		Films for Bio-Inspired Radiative Cooling
Kaur, Simerdeep	Poster #1410 presented	Anagha Gaitonde†	One-step Colorimetric Isothermal
,	7/25 @ 12:00-1:00pm		Detection of Live Foodborne Pathogens
Kaur, Upinder	Poster #1425 presented	Rieko Simone Wilford†	Revolutionizing Cattle Environmental
	7/25 @ 12:00-1:00pm	Alejandro Daza Gallo*	Sustainability using Precision Monitoring
		Jihyo Park*	
Kaur, Upinder	Poster #1650 presented	Jihyo Park†	Adaptive Hopf Oscillator based Central
, 1	7/25 @ 1:30-2:30pm		Pattern Generator for autonomous
	-		operation of a Subterranean Robot with
			Whegs
Kaur, Upinder	Talk #7028 presented	Brian G Mmari†	Active Aerodynamic Tail Enhances Agile
/ - r	7/25 @ 11:20am		Locomotion of Legged Robots in
	, = 2 =====		Challenging Natural Environments
Kazemian, Majid	Talk #7084 presented	Abigail Hyejin Lee†	Investigating the effects of ciclopirox and
,,	7/25 @ 3:00pm	, 5, 200	its derivatives on urothelial and renal cell
	, : : : :::::::::::::::::::::::::::::::		carcinomas
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Mentor Name	Presentation	Students	Title
Kennell, Richard L	Talk #7105 presented 7/25 @ 4:00pm	Kayla Y. Xu†	Creating Programmable Home Radon Measurement
Kessler, Sharon A	Poster #1414 presented 7/25 @ 12:00-1:00pm	Molly Elizabeth Kosiba†	Phenotypic characterization of Arabidopsis MLO overexpression and mutant lines to determine the role of MLO proteins in plant development
Khan, Sameer Ullah	Poster #1217 presented 7/25 @ 10:30-11:30am	Juan Alberto Gomez-Solis† Isaiah K Mensah*	CTCF knockdown rescues the MAPK signaling pathway in Vezf1 null murine embryonic stem cells
Khattab, Dina Wael Samir	Poster #1638 presented 7/25 @ 1:30-2:30pm	Jake Kim†	Modeling of additive manufacturing powder for laser powder bed fusion applications.
Kihara, Daisuke	Talk #7065 presented 7/25 @ 1:20pm	Anouka Saha† David Huang‡ Tsukasa Nakamura‡ Joon Hong Park‡ Pranav Punuru‡	Protein Structure Modeling using Deep- Learning
Kihara, Daisuke	Talk #9023 presented 7/25-8/01 virtually	Pranav Punuru†	VIPER: An Al-Powered Conversational Interface for Integrated Protein Research and Structure Prediction
Kim, Daniel	Talk #7068 presented 7/25 @ 1:40pm	Conwy Zheng†	Neutrophil Motility Regulation by MiR- 375 Target Gene ATP2b1
Kim, Dongseok	Poster #1476 presented 7/25 @ 12:00-1:00pm	Betsy Biju Varghese†	Exploring Proteome Allocation and Gene Transformation in Paramecium bursaria Photosymbiosis
Kim, Eunseob	Talk #7024 presented 7/25 @ 10:00am	Everett Mason†	Real-time manufacturing machine monitoring in edge analytics using electrical current consumption: Case study of plasma etcher operation and condition prediction
Kim, Garam	Poster #1019 presented 7/25 @ 9:00-10:00am	Hanhyun Kwak†	Closed-Loop Sustainability of 3D Printed Carbon Fiber Reinforced Composite Tooling.
Kim, Jeonghui	Poster #1026 presented 7/25 @ 9:00-10:00am	Chenyu Li†	Bulky phenylethyl-ammonium organic ligand for 2D perovskite nanowire growth
Kim, Ki Tae	Poster #1450 presented 7/25 @ 12:00-1:00pm	Ismael A Luna†	UGV IoT Deployment System
Kim, Kwang Taik	Poster #1225 presented 7/25 @ 10:30-11:30am	Ana Milena Espinosa Jimenez†	Latency, Velocity and Accuracy Evaluation of Classification Models on Edge Devices
Kim, Kwang Taik	Poster #1445 presented 7/25 @ 12:00-1:00pm	Basil Khwaja†	Real-Time Robotic Applications for Autonomous Driving, Drones, and Smart Manufactoring
Kim, Min Sung	Talk #7022 presented 7/25 @ 10:20am	Junhan Shen†	ARMS: Reconfigurable Microelectronic System for Autonomous Movement and Collaboration
Kim, Ted Taewook	Talk #7062 presented 7/25 @ 1:20pm	Nicholas Barmore†	Oligomerization of Light Olefins Using Aluminosilicate Catalysts
KIM, JONGGWANG	Talk #7102 presented 7/25 @ 4:00pm	Mathias Erik Bock Agerman†	Wireless Sensor Network Deployment in Contested and Denied Undersea Environments
Kinzer-Ursem, Tamara L	Poster #1462 presented 7/25 @ 12:00-1:00pm	Julia Janina Szela†	Laser-Induced Graphene Electrochemical Sensing for Low-Cost Point of Care Devices
Kinzer-Ursem, Tamara L	Poster #1467 presented 7/25 @ 12:00-1:00pm	Matthew T Zegarski†	Cleanroom-free Double Nanohole Plasmonic Biosensor Fabrication
Kircher, Kevin James	Poster #1263 presented 7/25 @ 10:30-11:30am	Liam Q Johnson† Lokesh Sriram* Benjamin Garrett Drillings* Levi Darian Reyes Premer*	Smart PV and Battery Control at the Purdue DC Nanogrid House

Mentor Name	Presentation	Students	Title
Kirchmaier, Ann L	Poster #1416 presented	Maxine Katya Kushner†	Fumarase and the DNA Replication Stress
	7/25 @ 12:00-1:00pm		Response
Kirk, Cody Dean	Poster #1454 presented	Nicole Marie Maneatis†	Quartz Mechanical Characterization and
	7/25 @ 12:00-1:00pm		Ballistic Impact Testing
Kolbinger, Fiona	Poster #1011 presented	Atin Dewan†	Surgical task classification using deep
	7/25 @ 9:00-10:00am		learning
Kolbinger, Fiona	Poster #1016 presented	Saloni Jajoo†	Pre-interventional complication risk
	7/25 @ 9:00-10:00am		stratification in patients undergoing
			percutaneous cardiac interventions
Kolbinger, Fiona	Poster #1644 presented	Madison Sarah Loiselle†	Translational Deep Learning in Pathology
	7/25 @ 1:30-2:30pm		Evaluating Models for Ground Truth
			Prediction Across Species
Kolbinger, Fiona	Talk #7081 presented	Farren M Martinus†	Cross-Species Analysis of Computational
	7/25 @ 2:00pm		Laparoscopic Video Segmentation and
			Classification
Kondos, Kaitlyn Amber	Poster #1624 presented	Miles T Davis†	Behavior of Steel-Plate Composite T-
	7/25 @ 1:30-2:30pm		Shaped Connections
Koratikere, Pavankumar	Poster #1459 presented	Milan Edward Rahmani†	Validation and Analysis for Full Scale
Channabasa	7/25 @ 12:00-1:00pm	Sota Yanagisawa‡	Avian Inspired Flapping Wing Aerial
			Vehicle (FWAV)
Koratikere, Pavankumar	Talk #7011 presented	Sota Yanagisawa†	Actuation strategy for an avian-inspired
Channabasa	7/25 @ 9:20am	Milan Edward Rahmani‡	flapping-wing aerial vehicle (FWAV) to
	, -		achieve stable flapping-gliding transition
Korde, Shrivatsa Shrirang	Poster #1034 presented	Aishwarya Menon†	Recovering Active Pharmaceutical
	7/25 @ 9:00-10:00am	,	Ingredients from Expired Drugs
Krushinski, Lynn Elizabeth	Talk #7004 presented	Amber K Wang†	Using Voltammetry to Probe Mass
	7/25 @ 9:20am		Transport in an Acoustically Levitated
	1,20 & 0.200		Droplet
Kuhn, Richard J	Talk #7039 presented	Sarah Jimenez Rojas†	Enhancing Transfection Efficiency of
	7/25 @ 11:00am		Hepatitis C Virus in Cell Culture
Kulkarni, Ritwik Vijaykumar	Poster #1405 presented	Johan Martinez†	Degradation of Thermal Interface
	7/25 @ 12:00-1:00pm	50.14.1.11.4.1	Materials From Thermal Cycling
	7,23 @ 12.00 1.00p		Experiments
Kung, Yk Hei Franki	Poster #1003 presented	Hannah Kim†	Racial Differences in Perceived Passion
	7/25 @ 9:00-10:00am		and Motivation: Exploring Antecedents
	7,25 € 5.00 20.000		for Asian and Asian American
			Dehumanization at Work
Kwizera, Ronard	Poster #1416 presented	Maxine Katya Kushner†	Fumarase and the DNA Replication Stress
	7/25 @ 12:00-1:00pm	maxime masya masime.	Response
Lai, Sean Yenyu	Poster #1259 presented	Rishipreet Singh Dhir†	Micro- and Nano-Precision Testing On
Lui, Scaii Terrya	7/25 @ 10:30-11:30am	Mishipreet singh bini	Low Temperature Solders
Lane, Quayannah	Poster #1200 presented	Aspen Arnold†	The New Mine: Navigating the
Lane, Quayannan	7/25 @ 10:30-11:30am	/ Spell / lillold	Environmental Challenges of EV Battery
	7723 @ 10.30 11.300111		Disposal
Lane, Quayannah	Poster #1201 presented	Daisey Briggs†	EVs for all: How Does Indiana's Plans for
Lane, Quayannan	7/25 @ 10:30-11:30am	Buiscy Briggs	EV Charging Infrastructure Employ
	7723 @ 10.30 11.300111		Equity?
Lane, Quayannah	Poster #1202 presented	Scott Edwards†	An Integrated Future: Developing
za.re, edayaman	7/25 @ 10:30-11:30am	SSOCC Editards.	Optimal EV Infrastructure in Urban Areas
Lane, Quayannah	Poster #1203 presented	Kaydence Hall†	Breathe EV: Centering Community Health
zarre, Quayarman	7/25 @ 10:30-11:30am	Rayactice Hall	in the Pursuit of EV Adoption in Indiana
Lane, Quayannah	Poster #1204 presented	Angelic Harris†	Charging Indiana: A Review Into
Lane, Quayannan	7/25 @ 10:30-11:30am	Angelie Harris!	Equitable Access to EV Charging Stations
	1/25 @ 10.30-11.30dfl		in Indiana
Lane, Quayannah	Poster #1205 presented	Jarrett Harris†	EV Innovation: Systematic review of EV
Lane, Quayannan	· ·	שוובננ וומוווטי	
Lana Ouguannah	7/25 @ 10:30-11:30am	Francisco Hurts de t	battery impact in the last 20 years
Lane, Quayannah	Poster #1206 presented	Francisco Hurtado†	To BEV or not BEV: Comparing EV power
	7/25 @ 10:30-11:30am		sources ability to reduce the US's carbon
	1		footprint

Mentor Name	Presentation	Students	Title
Lane, Quayannah	Poster #1211 presented	Daniel White†	The Hybrid Revolution: Steering the Path
	7/25 @ 10:30-11:30am		for EV Evolution
Lanham, Matthew	Talk #9019 presented 7/25-8/01 virtually	Rishita Korapati†	Predicting & Optimizing the Productivity of Garment Employees: A Novel Analytics Design to Improve Resource Allocation & Efficiency
Lanham, Matthew	Talk #9022 presented 7/25-8/01 virtually	Jizheng Li†	Predictive Maintenance in Drilling Operations: A Machine Learning Approach for Drill Bit Failure Prediction
Lanham, Matthew	Talk #9024 presented 7/25-8/01 virtually	Myeongin Wang†	Predictive Analysis of Seoul Bike Sharing Demand
Lanham, Matthew	Talk #9025 presented 7/25-8/01 virtually	Wei Yuan†	Predictive Maintenance to Reduce Machine Downtime
Laskin, Julia	Poster #1623 presented 7/25 @ 1:30-2:30pm	Wyatt Paul Crain†	Effect of Heteroatom Doping on the Size, Stability, and Electronic Properties of TM6E8(L)6 Nanoclusters
Lau, Holman	Poster #1055 presented 7/25 @ 9:00-10:00am	Thomas B Wooldridge†	Clean and Efficient Hybrid Propulsion System for Drones
Lee, Brian Hyun-jong	Talk #7036 presented 7/25 @ 11:00am	Stephen Brice Rider† Sabria Kionna Nesmith‡	Machine Learning Force Field for Ceramics at Extreme Conditions
Lee, Harry Kangseok	Poster #1019 presented 7/25 @ 9:00-10:00am	Hanhyun Kwak†	Closed-Loop Sustainability of 3D Printed Carbon Fiber Reinforced Composite Tooling.
Lee, Harry Kangseok	Poster #1655 presented 7/25 @ 1:30-2:30pm	Thomas Edgardo Schmitz† Armando David Galicia Huerta‡	Additive Manufacturing with Hybrid Continuous and Discontinuous Fiber Systems
Lee, Hojun	Poster #1643 presented 7/25 @ 1:30-2:30pm	Richard Li†	An Analytical Approach to Multifingered Grasp Synthesis
Lee, Hyowon	Poster #1065 presented 7/25 @ 9:00-10:00am	Deniz Eksioglu†	Electrochemical evaluation of PEDOT: PSS-coated electrodes for neural stimulation
Leifsson, Leifur Thor	Poster #1023 presented 7/25 @ 9:00-10:00am	lan Laudo†	Optimal Climb Trajectory of a Reusable Testbed for Hypersonic Flight
Leifsson, Leifur Thor	Poster #1459 presented 7/25 @ 12:00-1:00pm	Milan Edward Rahmani† Sota Yanagisawa‡	Validation and Analysis for Full Scale Avian Inspired Flapping Wing Aerial Vehicle (FWAV)
Leifsson, Leifur Thor	Talk #7011 presented 7/25 @ 9:20am	Sota Yanagisawa† Milan Edward Rahmani‡	Actuation strategy for an avian-inspired flapping-wing aerial vehicle (FWAV) to achieve stable flapping-gliding transition
Leon-Salas, Walter Daniel	Poster #1456 presented 7/25 @ 12:00-1:00pm	Nicolas Miguel Murillo Cristancho† Nicolas Rendon Arias‡ Sehyeon Lim‡	DashBoard for automatic sensor measurements using LoRa, Chirpstack and web development
Leon-Salas, Walter Daniel	Poster #1671 presented 7/25 @ 1:30-2:30pm	Philo Jeremy Kaulkin† Andrew R Fox† Baquero Sanchez Gabriel Alejandro‡	Chicken Tracking: Self-Powered Optical Frequency Identification Tags for Use in Data-Driven Agriculture
Leon-Salas, Walter Daniel	Talk #7077 presented 7/25 @ 2:40pm	Nicolas Rendon Arias† Sehyeon Lim† Nicolas Miguel Murillo Cristancho†	Compost Bin Monitoring Through IoT
Leuschen-kohl, Rebecca Lynn	Poster #1444 presented 7/25 @ 12:00-1:00pm	Shreya Joshy† Brooke Allison Pilkey‡ Silas Henry Buchanan‡	Investigating the Plant Immune Response to Ralstonia Exopolysaccharide
Leuschen-kohl, Rebecca Lynn	Poster #1651 presented 7/25 @ 1:30-2:30pm	Brooke Allison Pilkey† Shreya Joshy‡ Silas Henry Buchanan‡	Elucidation of Tomato Immune Responses in Response to Ralstonia Exopolysaccharides
Levengood, Hannah Elizabeth	Poster #1246 presented 7/25 @ 10:30-11:30am	Diallo Thomas† Jing Huang* Ana Maria Orjuela Rodriguez*	Enhancing Plant Transformation through Agrobacterium tumefaciens

Mentor Name	Presentation	Students	Title
Li, Can	Poster #1402 presented 7/25 @ 12:00-1:00pm	Zachary Rasmussen†	Optimizing Non-Sharp Distillation Column Sequence using Surrogate Physics-
1: Chuistine M	Danton #1400 massantad	Frank D. Aldon +	Informed Neural Network
Li, Christina W	Poster #1400 presented 7/25 @ 12:00-1:00pm	Errol B Alden†	Coke Formation on Catalysts
Li, Christina W	Talk #7085 presented 7/25 @ 3:20pm	Yiyin Tao†	Solution-Phase Intercalation of Metal Atoms into MoS2
Li, Daoyi	Talk #7058 presented 7/25 @ 1:00pm	Maria Munoz Perez†	Image Recognition of Helical EMDB Structures
Li, Jianing	Poster #1640 presented 7/25 @ 1:30-2:30pm	Shreya Krishnan†	Molecular Mechanisms of Adenylyl Cyclase-Calmodulin-Forskolin Binding in Adenylyl Cyclase 1
Li, Junfei	Talk #7013 presented 7/25 @ 10:00am	Yijie Zhang† Shaocheng Wu‡	Metamaterial-based Structures in Underwater Noise Mitigation for Offshore Wind Energy
Li, Junfei	Talk #7053 presented 7/25 @ 12:00pm	Shaocheng Wu† Yijie Zhang‡	Air-entrained Structure in Underwater Noise Mitigation for Offshore Wind Energy
Li, Pan	Talk #7107 presented 7/25 @ 4:40pm	Jack Patrick Rodgers†	Semi-Supervised Graph Neural Network for Pileup Mitigation
Li, Qingchun	Poster #1228 presented 7/25 @ 10:30-11:30am	Alexander Harman†	Evaluating Mobility Factors Under Extreme Heat
Li, Tian	Poster #1460 presented 7/25 @ 12:00-1:00pm	Paula Sanchez Ulloa†	Enhancing Bio-based Adhesive Performance for Sustainable Plywood: Optimizing Processing Pressure for Improved Mechanical Strength
Li, Tianyi	Talk #7095 presented 7/25 @ 3:40pm	Shreya S Venkat†	Multi-Agent Collaborative Sensemaking
Li, Tonglei	Talk #7070 presented 7/25 @ 2:20pm	Kyenret Yakubu Ayuba†	Learning Nucleation by Reversing It: A Molecular Dynamics Study of Amorphization of Organic Molecules
Li, Tonglei	Talk #7093 presented 7/25 @ 3:00pm	Olaoluwa Adegbohungbe† Ryan Thomas Jordan‡	Machine Learning Approaches to Predict Protein-Protein Interactions through Electrostatic Potential Mapping
Li, Xilai	Poster #1623 presented 7/25 @ 1:30-2:30pm	Wyatt Paul Crain†	Effect of Heteroatom Doping on the Size, Stability, and Electronic Properties of TM6E8(L)6 Nanoclusters
LI, HUIYANG	Poster #1625 presented 7/25 @ 1:30-2:30pm	Haozhen Dong†	Differentiation of neutrophils for cancer cell killing assay
Liceaga, Andrea M	Poster #1421 presented 7/25 @ 12:00-1:00pm	Anja Chloe Owens†	Antioxidant Activity of Phenolic Compounds from Chlorella vulgaris
Lindemann, Stephen R	Poster #1444 presented 7/25 @ 12:00-1:00pm	Shreya Joshy† Brooke Allison Pilkey‡ Silas Henry Buchanan‡	Investigating the Plant Immune Response to Ralstonia Exopolysaccharide
Lindemann, Stephen R	Poster #1651 presented 7/25 @ 1:30-2:30pm	Brooke Allison Pilkey† Shreya Joshy‡ Silas Henry Buchanan‡	Elucidation of Tomato Immune Responses in Response to Ralstonia Exopolysaccharides
Linnes, Jacqueline	Talk #7016 presented 7/25 @ 10:00am	Akansha Chauhan†	Paper-Based Assay for Early Cervical Cancer Screening
liu, Miaoyuan	Talk #7091 presented 7/25 @ 3:20pm	Jack Patrick Rodgers†	Bumblebee: A self-supervised transformer model to learn top quark decay at the Large Hadron Collider
liu, Miaoyuan	Talk #7107 presented 7/25 @ 4:40pm	Jack Patrick Rodgers†	Semi-Supervised Graph Neural Network for Pileup Mitigation
Liu, Jing	Talk #7057 presented 7/25 @ 1:40pm	Ishaan Kartik Singh†	Rapid Widefield FLIM using a Single Photon Avalanche Diode Array
Liu, Julie C	Poster #1043 presented 7/25 @ 9:00-10:00am	Eliana Saavedra†	Synthesis Hydrogels with Chondroitin Sulfate and GQLY Peptide to Prevent Cartilage Degradation in Osteoarthritis

Mentor Name	Presentation	Students	Title
Liu, Mintao	Poster #1670 presented	Xinwan Hu†	Assessing Robustness in fMRI
	7/25 @ 1:30-2:30pm		Connectome Identification: Effects of
			Scan Intervals and Distance Metrics
Liu, Yi Kai	Poster #1420 presented	Nathaniel Merrick Miller†	Benchmarking Dimethyl Labeling-based
	7/25 @ 12:00-1:00pm		Data-Independent Acquisition Pipelines
	,		for Extracellular Vesicle Proteomics and
			Phosphoproteomics
Long, Jiaxin	Poster #1220 presented	Andres Moran†	Characterizing Chromatin Assembly
3, 1	7/25 @ 10:30-11:30am	Shelby Sliger‡	Factor Capabilities of the ATP-dependent
	, 10	Joshua Paul Kaluf‡	Chromatin Remodeler PICKLE (PKL) in
			Arabidopsis thaliana
Long, Jiaxin	Poster #1424 presented	Elysia Marlena Uggen†	Proximity Labeling to Identify Transient
Long, staxin	7/25 @ 12:00-1:00pm	Joshua Paul Kaluf‡	Protein Interactions with ATP-dependent
	7,23 @ 12.00 1.00pm	Shelby Sliger‡	Chromatin Remodeler PICKLE
Long liavin	Poster #1475 presented	Amanda Renee Schoonmaker†	Investigating the Role of INO80 in
Long, Jiaxin	7/25 @ 12:00-1:00pm		H3K27me3 Homeostasis and Pickle Root
	7/25 @ 12.00-1.00pm	Joshua T Stephenson‡	
Long liquin	Talk #7076 processed	Sholby Sligort	Phenotype in Arabidopsis thaliana
Long, Jiaxin	Talk #7076 presented	Shelby Sliger†	Characterizing the role of histone variant
	7/25 @ 2:20pm		H2A.Z in heat-responsive gene
			expression in Arabidopsis thaliana
Lou, Yuan-Yao	Poster #1445 presented	Basil Khwaja†	Real-Time Robotic Applications for
	7/25 @ 12:00-1:00pm		Autonomous Driving, Drones, and Smart
			Manufactoring
Low, Megan Mei Yee	Talk #7079 presented	William David Quintero	Knowledge Representation Trends in
	7/25 @ 2:20pm	Gallego†	Midwestern Community Food Maps
Low-Nam, Shalini T	Poster #1611 presented	Alex James Alonzo†	Measurement of rare phosphoinositide
	7/25 @ 1:30-2:30pm	Jennifer Caraballo‡	lipids in Ras mutant cell membranes
Lu, Yung-Hsiang	Poster #1028 presented	Emma Lombardo†	Al in Music: Computer Transcription
	7/25 @ 9:00-10:00am		
Lu, Yung-Hsiang	Poster #1059 presented	Connor Bradley Frey†	User-Friendly Interface for Real-Time
	7/25 @ 9:00-10:00am	Ryan Thomas Jordan*	Musical Accompaniment
		Edward Falcon Navarro*	•
		Caasi Nketiah Boakye*	
		Minsoo Oh*	
		Tim Nadolsky*	
		Ping-Hung Nick Ko*	
		Brian Mingyang Qi*	
		Anthony Wang*	
Lu, Yung-Hsiang	Poster #1060 presented	Edward Falcon Navarro†	Real-Time Voice Commands for Musical
La, rang risiang	7/25 @ 9:00-10:00am	Ryan Thomas Jordan*	Accompaniment
	7/25 @ 5.00 10.00am	Tim Nadolsky*	Accompaniment
		Ping-Hung Nick Ko*	
		Caasi Nketiah Boakye*	
		Minsoo Oh*	
		Brian Mingyang Qi*	
		Anthony Wang*	
L. V. van Hain	Deeten #1535 ::	Connor Bradley Frey*	Fuhansina Calla Barfarras at the second
Lu, Yung-Hsiang	Poster #1636 presented	William P Jiang†	Enhancing Cello Performance through
	7/25 @ 1:30-2:30pm	Shrinand Perumal*	Real-Time Posture Evaluation
		Shivam Hemal Trivedi*	
Lu, Yung-Hsiang	Poster #1641 presented	Elan Landau†	Artificial Intelligence in Music
	7/25 @ 1:30-2:30pm		Transcription
Lu, Yung-Hsiang	Poster #1662 presented	Richard Joseph Von Tersch†	Robot Cello
Lu, Yung-Hsiang	•		Nobot cello
Lu, Yung-Hsiang	7/25 @ 1:30-2:30pm	Samantha Sudhoff† Vinay Sai Meda‡	Nobot ceno

Mentor Name	Presentation	Students	Title
Lu, Yung-Hsiang	Talk #7000 presented 7/25 @ 9:00am	Ryan Thomas Jordan† Tim Nadolsky* Edward Falcon Navarro* Ping-Hung Nick Ko* Caasi Nketiah Boakye* Minsoo Oh* Brian Mingyang Qi* Anthony Wang* Connor Bradley Frey*	Real-Time Musical Accompaniment for Non-Improvised Music
Lu, Yung-Hsiang	Talk #7106 presented 7/25 @ 4:20pm	Sami Nasser Zagha† Trent Michael Seaman† Ron K Natarajan‡ Daniel EnYi Yang‡ Nihar Pushkar Atri‡ Dinmukhamed Mukhtar Tynysbay‡	Evaluating Text/Image to 3D Mesh Models; A Comprehensive Overview
Lucht, Robert P	Talk #7031 presented 7/25 @ 11:20am	Brenden Michael Bush†	Design of a High-Pressure Counterflow Burner for Laser Diagnostic Technique Development
Luo, Junjie	Poster #1629 presented 7/25 @ 1:30-2:30pm	Alan Fu†	Developing Ultra Low Power Depth Sensing Through Differential Defocus
Lyon, Angeline M	Poster #1021 presented 7/25 @ 9:00-10:00am	Morgan Grace Laskowski†	Structural Studies of Phospholipase C Enzymes
Ma, Dizhi	Poster #1053 presented 7/25 @ 9:00-10:00am	Nishant Vasan† Haddy Elie Alchaer‡	Tracking the Trajectory and Spin Dynamics of a Table Tennis Ball
Ma, Jianxin	Poster #1245 presented 7/25 @ 10:30-11:30am	Adrian Muñoz†	Evaluation of the role of the Lateral Boundary Domain Transcription Factor GmLBD5 in Soybean Response to Sulfur Deficiency
Machiry, Aravind	Poster #1465 presented 7/25 @ 12:00-1:00pm	Gaurav Vermani†	C to Rust: Manual Conversion Methods and Standardized Dataset Creation
Mahmoudian, Nina	Poster #1446 presented 7/25 @ 12:00-1:00pm	Nils Kiefer†	AUV Retrieval Manipulator
Mahmoudian, Nina	Talk #7007 presented 7/25 @ 9:00am	Jhair Steven Gallego Mendez†	Mini-BREAM: A Low-Cost Modular Platform for Autonomous Surface Vehicle Testing
Maji, Amiya K	Talk #9004 presented 7/25-8/01 virtually	Alex Sieni†	Automating HPC Software Deployment
Maji, Amiya K	Talk #9006 presented 7/25-8/01 virtually	Jeffrey Winters†	Automating Research Software Deployment - PLENUM Pipeline
Mak, Nathan Timothy	Poster #1231 presented 7/25 @ 10:30-11:30am	Cora Jane Reynolds† Lail Shaw† Hallie Grace Jackson‡	Can Hemoglobin binding models be used to predict toxicity of mixtures of Forever Chemicals???
Mandal, Purba	Poster #1663 presented 7/25 @ 1:30-2:30pm	Akila Abeyaratna†	Investigating Early-Onset Neurodegeneration in Patients with Hereditary, Sensory, and Autonomic Neuropathy Type 1E (HSAN1E) Using 3D Cortical Organoids
Mannodi Kanakkithodi, Arun Kumar	Talk #7088 presented 7/25 @ 3:20pm	Anika Bhoopalam†	Novel Low-Bandgap Perovskites for Solar Cells Using a Computational and Experimental Approach
Marconnet, Amy M	Poster #1654 presented 7/25 @ 1:30-2:30pm	Sidney Evan Ryan† En-Hua Chang‡	Accurate Surface Temperature Collection for Lithium-Ion Batteries
Marconnet, Amy M	Talk #7032 presented 7/25 @ 11:40am	En-Hua Chang† Sidney Evan Ryan‡	Single Phase Static Immersive Cooling of Cylindrical Battery - Insight of Measuring Methods and Result
Marconnet, Amy M	Talk #7037 presented 7/25 @ 11:20am	Lindsay Kathryn Sutherland†	Impact of Slot Liner Compression and Wire Geometry on the Total Thermal Resistance in the Electric Motor's Stator-Winding Assembly

Mentor Name	Presentation	Students	Title
Marlin, Makayla Nicole	Poster #1218 presented	Sara Bethany Victoria Haber†	Investigating AD-induced Gnmt
	7/25 @ 10:30-11:30am		upregulation in Drosophila clock cells
Martinez, Carlos J	Poster #1470 presented	Jiying Zou†	Fabrication of Temperature-sensitive
	7/25 @ 12:00-1:00pm		Additives for PFAS-free Fire Fighting
			Foam Formulations
Martinez Sainz, Enrico	Poster #1223 presented	Mateo Colorado Zapata†	Catalytic Depolymerization of Lignin of
	7/25 @ 10:30-11:30am		Corn Stover and Sawdust for Medium-
			Density Fiberboard Production
Martinez-Guo, Zherui	Poster #1454 presented	Nicole Marie Maneatis†	Quartz Mechanical Characterization and
	7/25 @ 12:00-1:00pm		Ballistic Impact Testing
Martinez-Guo, Zherui	Talk #7101 presented	Maya Araujo†	Catchment Chamber Design for the
	7/25 @ 4:40pm		Ballistic Impact of Mesoscale Geo-
			Materials
Masdari, Mobina	Poster #1272 presented	Keeley Vonne Farmer†	The investigation and optimization of
	7/25 @ 10:30-11:30am		MIP-based PFAS sensing across sample
		2 1 111111 2 111	matrices
Matosevic, Sandro	Poster #1050 presented	Drake William Strait [†]	Characterization and immunotherapeutic
Matta Carre	7/25 @ 9:00-10:00am	Chave Bass [±]	targeting of the tumor microenvironment
Mattoo, Seema	Poster #1254 presented	Shaye Ross†	In vitro Structural Characterization of the
	7/25 @ 10:30-11:30am		Secreted Brucella protein VceC (VirB
			coregulated effector C) reveals Diverse
			Multimeric States
McAdam, Scott	Poster #1418 presented	Jonathan Michael Lu†	To Thirst or to Hunger: The Hydraulic
11 C (() D 1:D:	7/25 @ 12:00-1:00pm	D : 147 : 1	Physiology of Drosera capensis
McCafferty, Reagan LiPing	Poster #1406 presented	Dania M Zein†	Transitions Between Electron Emission
NA-C	7/25 @ 12:00-1:00pm	Materials I adams and	Mechanisms in Semiconductors
McCarthy, Allison Kay	Talk #7059 presented	Kristina Nicole Lodenquai†	Does Calcium/Calmodulin Protein Kinase
	7/25 @ 1:20pm		II (CaMKII) Affect Sperm-Induced Actin
			Remodeling in Fertilized Mammalian
McClain, Monique Suzanne	Poster #1440 presented	Bryan Gong†	Eggs? Powder Deposition for Polymer Bonded
Wicciaili, Wollique Suzallile	7/25 @ 12:00-1:00pm	Bryan Gong	Explosives
McClain, Monique Suzanne	Poster #1452 presented	Ellen Ma†	Mechanical Properties of UV Curable
Weelam, Wonique Sazanne	7/25 @ 12:00-1:00pm	Lifeti Wid	Polymer-Bonded Explosive Molding
	7,23 @ 12.00 1.00p		Powder
McKinney, Jason Dwight	Poster #1620 presented	Ethan Chieng Chiao†	On-chip Phase Calibration Circuits With
	7/25 @ 1:30-2:30pm		Integrated Photonic Bragg Gratings
Melican, Logan Jacob	Poster #1006 presented	Spasko Aleksov†	Machine Learning for Semiconductor
,8	7/25 @ 9:00-10:00am	Paige Alicia Greenfield*	Nanodevice Design
	1,20 & 0.00 2000	Xu Lu*	The state of the s
Melican, Logan Jacob	Poster #1264 presented	Xu Lu†	Machine Learning Support for
, 3	7/25 @ 10:30-11:30am	Spasko Aleksov*	Semiconductor Nanodevice Design
	, , , ,	Benjamin Charles Miller*	
Mengiste, Tesfaye D	Poster #1244 presented	Jeremy Ledesma Vicioso†	Responses of Sorghum Differentials to
J , /	7/25 @ 10:30-11:30am	Abigail Grace Smith*	Colletotrichum Sublineola strain Cs29
Menon, Vinay K	Poster #1611 presented	Alex James Alonzo†	Measurement of rare phosphoinositide
, ,	7/25 @ 1:30-2:30pm	Jennifer Caraballo‡	lipids in Ras mutant cell membranes
Mesecar, Andrew D	Poster #1215 presented	Hillary English†	Characterizing sulfotransferase 2B1a and
•	7/25 @ 10:30-11:30am		determining its effect in drug delivery
Mesecar, Andrew D	Poster #1219 presented	Emma Litzelman†	SHIP1 phosphatase as a Late-Onset
	7/25 @ 10:30-11:30am		Alzheimer's Disease therapeutic target
Metskas, Lauren Ann	Talk #7064 presented	Richard Lawrence†	Quantifying Rubisco Polymerization
•	7/25 @ 1:00pm		within Carboxysomes
Metzger, Brian Patrick Ha	Poster #1066 presented	Michael David Gardner†	Wee Kinases, Tyrosine Phosphorylation,
- ·	7/25 @ 9:00-10:00am		and what they tell us about Chance,
			Contingency, and Necessity in Evolution
Metzger, Brian Patrick Ha	Poster #1068 presented	Rachel Marie Isaac†	Phylogenetic Reconstruction of the
3 , : : : : : : : : : : : : : : : : : :	7/25 @ 9:00-10:00am		Evolution of One Instance of Tyrosine
	1/25 @ 5.00 10.00dill		

Mentor Name	Presentation	Students	Title
Meyer, George W	Poster #1248 presented	Esperanza Zambrano†	Investigating the contribution of
	7/25 @ 10:30-11:30am		proteotoxicity to juglone's mechanism of
			action
Meyers, Brett A	Talk #7072 presented	Kara Rochelle McCrindle†	In-vitro Assessment of Patient-Specific
	7/25 @ 2:00pm		Cerebral Aneurysm Models for
	-		Hemodynamic Analysis using Particle
			Image Velocimetry and 4D Flow MRI
Michalec, Maxwell Frank	Poster #1665 presented	Indrayudh Chowdhury†	Verification of Interrupt Controller Using
	7/25 @ 1:30-2:30pm	,	Universal Verification Methodology
Michalec, Maxwell Frank	Talk #7080 presented	Abhijay Achukola†	Implementing Compressed Instructions
menarce, maxire in raini	7/25 @ 2:40pm	Aniket Chatterjee†	in a RISC-V Microcontroller
Mildenhall, Frederick Isaac	Poster #1243 presented	Samantha Lares†	Three novel transcription factors in RAV2
Winderman, Frederick Isade	7/25 @ 10:30-11:30am	Samarara Eares	C2H2, and HSF identified to play a key
	7/23 @ 10.30 11.30diii		response on tomato during chilling stress
Miller, Jeffrey T	Poster #1403 presented	Joyce M Rivera Sanchez†	Propylene hydrogenation by main group
Willer, Jerriey 1	-	Joyce W Rivera Sanchez	
	7/25 @ 12:00-1:00pm		metal Ga+3 on SiO2 and Al2O3 supported
NA:II.a. LaffraT	Tall: #7002 pages and a	Nichalas Dannanat	catalysts
Miller, Jeffrey T	Talk #7062 presented	Nicholas Barmore†	Oligomerization of Light Olefins Using
NAther Hans	7/25 @ 1:20pm	Mandalina I Ci	Aluminosilicate Catalysts
Mitra, Harsa	Poster #1658 presented	Madeline Jane Stevenson†	Development of Magnetic Bead-Based
	7/25 @ 1:30-2:30pm	Luhao Xu*	Active Microrheology Prototype for
		Shlok Rajesh Kulkarni*	Probing and Measuring Mechanical
			Properties of Biological Matter
Moore Snyder, Jellie	Poster #1250 presented	Sarah Hong†	Screening Human Microbial Communities
	7/25 @ 10:30-11:30am		for Genotoxic Hydrogen Sulfide
			Production
Mousazadeh, Hossein	Talk #9018 presented	Shamari Garrett†	Analyzing Neighborhood Property
	7/25-8/01 virtually		Conditions in South Lafayette
			Neighborhood
Mukadam, Mrudula	Talk #7033 presented	Ishita Mukadam†	Advancing Wound Health Assessment
	7/25 @ 11:00am		Utilizing Curcuma Longa
Mukherjee, Partha P	Poster #1429 presented	Trisha Boodhoo†	Physics and Analytics of Lithium Batteries
• '	7/25 @ 12:00-1:00pm		
Mulim, Henrique Alberto	Poster #1224 presented	Alejandro Daza Gallo†	Genomic imputation and prediction
, ,	7/25 @ 10:30-11:30am		analysis: Unraveling genetic variability in
	, , , ,		dairy cattle
Murdock, Benjamin Kyle	Talk #7031 presented	Brenden Michael Bush†	Design of a High-Pressure Counterflow
	7/25 @ 11:20am		Burner for Laser Diagnostic Technique
	7,23 @ 11.20diii		Development Development
Nagy, Zoltan	Poster #1034 presented	Aishwarya Menon†	Recovering Active Pharmaceutical
Nagy, Zoitaii	7/25 @ 9:00-10:00am	Alsiiwai ya Wellolii	Ingredients from Expired Drugs
Nagy Zaltan		Urvi Mathur†	Development on Intensified
Nagy, Zoltan	Talk #7083 presented	Orvi Mathuri	· · · · · · · · · · · · · · · · · · ·
	7/25 @ 2:40pm		Pharmaceuticals Manufacturing
N . 1 . NO . 1	D : #4442 : 1	ol : 5 H	Processes
Narsimhan, Vivek	Poster #1442 presented	Chi-En Huang†	Comparative Analysis of Methods for
	7/25 @ 12:00-1:00pm		Measuring Mass Transfer Resistance (Rp)
			from Temperature in Lyophilized
			Formulations
Nelson, Cole Aaron	Poster #1600 presented	William Rowan Cunningham†	Optimizing Vector Memory Accesses in a
	7/25 @ 1:30-2:30pm	Maxwell Frank Michalec*	RISC-V Processor
		Om Gupta*	
		Fahad Aloufi*	
Nelson, Cole Aaron	Poster #1605 presented	Abhiram Saridena†	Implementation of RISC-V "K" extension
	7/25 @ 1:30-2:30pm		for scalar cryptography
Nelson, Cole Aaron	Talk #7080 presented	Abhijay Achukola†	Implementing Compressed Instructions
-	7/25 @ 2:40pm	Aniket Chatterjee†	in a RISC-V Microcontroller
Nelson, Cole Aaron	Talk #9011 presented	Aishwarya Saikrupa Anand†	Improved Interrupt Controller Design for
· , 	7/25-8/01 virtually	Aryan M Kadakia†	SoCET x08 Chip
	, , , , , , , , , , , , , , , , , , , ,	Benjamin Liming Zou‡	
			<u>i</u>

Mentor Name	Presentation	Students	Title
Nelson, Cole Aaron	Talk #9015 presented	tri Than†	Chiplet Integration on PCB
	7/25-8/01 virtually	Brady Owen Philhower† Rauf Emre Erkiletlioglu† Gilbert Chang†	
Nelson, Cole Aaron	Talk #9016 presented 7/25-8/01 virtually	Justin Yasuumi† Yi-Hsuan Cheng†	A Command-Line Framework for AFTx07
Nelson, Samantha	Talk #7027 presented 7/25 @ 11:00am	Elliot Nick Brajkovich†	Using Machine Learning to Predict Thioesterase Cyclization Preference
Nguyen, Cuong Duc Calvin	Poster #1672 presented 7/25 @ 1:30-2:30pm	Maggie Kim†	Effect of Metal Ions on Tau Aggregation: A Study on Kinetics and Characterization
Nie, Linda	Poster #1601 presented 7/25 @ 1:30-2:30pm	Jessica Andrea Gray†	Study of Brain Metal Distributions and Interactions in Relation to Alzheimer's Pathogenesis Using Synchrotron X-ray Techniques
Nieforth, Leanne	Poster #1058 presented 7/25 @ 9:00-10:00am	Sophie Kaitlyn Stahl†	Pets at the desk: a systematic review on pets in the workplace
Noinaj, Nicholas	Poster #1251 presented 7/25 @ 10:30-11:30am	Jesus Noriega†	Structural characterization of a novel stapled peptide inhibitor bound to the BAM complex
Nolte, David D	Poster #1235 presented 7/25 @ 10:30-11:30am	Alexis Nicole Hensley†	Machine Learning Analysis of Seismic Coda Signals to Monitor Shear and Hydraulic Stimulation in Fractured Rock
Nonamaker, Evelyn Marie	Poster #1031 presented 7/25 @ 9:00-10:00am	Matthew William Margraf†	Quantitative Characterization of Cerebrospinal Fluid Electrolytes in Animal Models of Intrathecal Delivery
Nortz, Samuel Patrick	Poster #1273 presented 7/25 @ 10:30-11:30am	Sadie A Poirier† Yashvi Choudhary‡ Megan Leigh Hill* Keeley Vonne Farmer*	Silver leakage in commercially available and bipolar reference electrodes (BPREs): a TNBC toxicity study
Nunez ferro, Ivan Arturo	Poster #1275 presented 7/25 @ 10:30-11:30am	Janessa M Rieser† Chaoyi Hu†	Implementation of a Heat Recovery Chiller In A Solar Thermal Loop
Oakley, Christopher G	Talk #7001 presented 7/25 @ 9:20am	Santiago Reinoso Castillo†	The genetic basis of inflorescence architecture in Arabidopsis thaliana: implications for adaptation and maladaptation
Ogas, Joseph P	Poster #1220 presented 7/25 @ 10:30-11:30am	Andres Moran† Shelby Sliger‡ Joshua Paul Kaluf‡	Characterizing Chromatin Assembly Factor Capabilities of the ATP-dependent Chromatin Remodeler PICKLE (PKL) in Arabidopsis thaliana
Ogas, Joseph P	Poster #1424 presented 7/25 @ 12:00-1:00pm	Elysia Marlena Uggen† Joshua Paul Kaluf‡ Shelby Sliger‡	Proximity Labeling to Identify Transient Protein Interactions with ATP-dependent Chromatin Remodeler PICKLE
Ogas, Joseph P	Poster #1475 presented 7/25 @ 12:00-1:00pm	Amanda Renee Schoonmaker† Joshua T Stephenson‡	Investigating the Role of INO80 in H3K27me3 Homeostasis and Pickle Root Phenotype in Arabidopsis thaliana
Ogas, Joseph P	Talk #7076 presented 7/25 @ 2:20pm	Shelby Sliger†	Characterizing the role of histone variant H2A.Z in heat-responsive gene expression in Arabidopsis thaliana
Ogawa, Sienna Tsuruko	Poster #1414 presented 7/25 @ 12:00-1:00pm	Molly Elizabeth Kosiba†	Phenotypic characterization of Arabidopsis MLO overexpression and mutant lines to determine the role of MLO proteins in plant development
Ogg, James G	Talk #9013 presented 7/25-8/01 virtually	Kevin Ming Chang† Sabrina Chang‡ Aditya Krishnan Sivathanu‡	Geolex: Cloud-based Public Database of Global Geologic Formations
Okoye, Pascal Chukwuebuk	Poster #1244 presented 7/25 @ 10:30-11:30am	Jeremy Ledesma Vicioso† Abigail Grace Smith*	Responses of Sorghum Differentials to Colletotrichum Sublineola strain Cs29

Mentor Name	Presentation	Students	Title
Olek, Jan	Poster #1018 presented	Ali Kalmagambetov†	Utilizing alternative air-entraining
	7/25 @ 9:00-10:00am		methods to enhance freeze-thaw
			durability of concrete with incorporated
			nanomaterials.
Olek, Jan	Talk #7015 presented	Anel Zhussupbekova†	Synergetic Effect of Nanosilica
	7/25 @ 10:40am	Raikhan Tokpatayeva*	Admixtures and Nontraditional Natural
	1,20 € 201100		Pozzolans on Hydration Kinetics of
			Cementitious Systems
Olson, Jacob Mark	Poster #1411 presented	Gage Ryan Edward Gottman†	Metabolite extraction and analysis of
Ciscii, succis iviark	7/25 @ 12:00-1:00pm	Guge Nyan Edward Gottman	High Chlorophyll Fluorescence (HCF) in
	7/23 @ 12.00 1.00pm		Sorghum mutants
Organski, Lee E	Talk #7043 presented	Mathis Malaussena†	Design and Implementation of an
Organiski, Lee L	7/25 @ 12:20pm	iviatilis ivialaussella	Inductively Coupled Plasma Neutralizer
	7/23 @ 12.20pm		for SPT-100 Hall Thruster
Osoria Binzon, Luon Comila	Talk #7002 presented	David A Laurablin+	Flexible Mechanical Sensors
Osorio Pinzon, Juan Camilo	Talk #7082 presented	Paul A Loughlin†	Flexible Mechanical Sensors
	7/25 @ 2:20pm		
Ospina Larrea, Ana Maria	Talk #7048 presented	Isabella Wyatt†	Singing in the Anthropocene: Evaluating
	7/25 @ 12:00pm		Anuran Call Signal Transmission in Urban
			Environments
Ospina Larrea, Ana Maria	Talk #7086 presented	Jabez Soongeui Shin†	Effect of artificial light at night (ALAN)
	7/25 @ 3:40pm	Adriana Bustos Torres‡	and traffic noise on anuran
			communication
Ozerov, Stepan	Poster #1009 presented	Marie Emilie Charbonnier†	Radon Detection : A novel method using
	7/25 @ 9:00-10:00am		Centrifugally Tensioned Metastable Fluid
			Detector
Ozerov, Stepan	Poster #1448 presented	Qi Heng Law [†]	Novel neutron-gamma radiation
•	7/25 @ 12:00-1:00pm		detectors based on PLA biopolymer
	' - '		detector (PLAD) sensor technologies.
Ozerov, Stepan	Poster #1653 presented	Abhishek Raj†	Identifying Radiation Particles through
, ,	7/25 @ 1:30-2:30pm	,	Acoustic Shock Signals: A Deep Learning
	, 10 11 11		Perspective
Pare, Philip Eugene	Poster #1039 presented	Andy Nguyen†	Autonomous Taxiing System
Tare, timp Lagerie	7/25 @ 9:00-10:00am	7 1.8476	, rateriorino de Taximi g e yeterin
Pare, Philip Eugene	Poster #1431 presented	Zarif Cabrera†	Tracking Controllers For Autonomous
Lagerie	7/25 @ 12:00-1:00pm	Zarri cabrera	Aircraft Taxiing
Park, Daniel	Poster #1240 presented	Holly Gustavsen†	Modeling buffalograss phenology as a
Tark, Darrier	7/25 @ 10:30-11:30am	Tiony Gustavsen	response to climate change
Bark Hyo Lin	Poster #1242 presented	Molly Kubal†	Differential Roles of ACS Enzyme
Park, Hye Lin	7/25 @ 10:30-11:30am	IVIOLIY KUDALI	Isoforms in Ethylene-Mediated Abiotic
	7/25 @ 10.50-11.50aiii		· ·
Davida Jan Wassan	D t	Danie Flata dat	Stress Responses in Arabidopsis thaliana
Park, Jae Young	Poster #1065 presented	Deniz Eksioglu†	Electrochemical evaluation of PEDOT:
	7/25 @ 9:00-10:00am		PSS-coated electrodes for neural
	B 1 114.000	1.1. 1.5	stimulation
Park, Sunghee	Poster #1626 presented	Abigail J Dressman†	Using Organoids as a Model System to
	7/25 @ 1:30-2:30pm		Study Intestinal Epithelial Growth and
			Morphogenesis
Parkinson, Elizabeth I	Talk #7027 presented	Elliot Nick Brajkovich†	Using Machine Learning to Predict
	7/25 @ 11:00am		Thioesterase Cyclization Preference
Paspalaki, Garyfallia	Talk #7107 presented	Jack Patrick Rodgers†	Semi-Supervised Graph Neural Network
	7/25 @ 4:40pm		for Pileup Mitigation
Pasternak, Jonathan	Poster #1063 presented	Bea Olivia Cabot†	Repeatability of Cranial Morphometrics
	7/25 @ 9:00-10:00am		in the Pig
Pasternak, Jonathan	Poster #1409 presented	Samantha Teal Fairchild†	Effects of Intrauterine Growth Restriction
, 	7/25 @ 12:00-1:00pm		(IUGR) on Pre-Weaning Performance in
	, == 0 == 0 == 0 == 0		Swine
Pasternak, Jonathan	Poster #1666 presented	Chiara Isabella Gibboney†	Understanding the Acute Hematological
i asternaty sonathan	7/25 @ 1:30-2:30pm	Smara isasena dissoricy.	Impact of Intrauterine Growth
	7,25 @ 1.30-2.30piii		Retardation in Swine
		1	netaruation in Swille

Mentor Name	Presentation	Students	Title
Patel, Mayank Harendra	Poster #1007 presented	Rishika Bera†	PrimerCurator: An LLM Powered
	7/25 @ 9:00-10:00am		Multimedia Educational Content Design and Creation Tool
Patel, Rishi	Talk #7051 presented 7/25 @ 12:20pm	Jaralynn Morellano†	Structural basis of nanobody inhibition of UCH37
Patel, Timir Rajendra	Poster #1261 presented 7/25 @ 10:30-11:30am	Nicolas Giesemann†	Testing and Validation of High-Efficiency Hydraulic System for Off-Road Vehicles
Patil, Samruddhi Moreshwar	Poster #1033 presented	Joseph Mayer†	The Effect of Statistical Sequence Control
	7/25 @ 9:00-10:00am		on PLGA Degradation in Langmuir
			Monolayers
Patra, Satya Sundar	Poster #1451 presented	Minh An Nguyen Luu†	Laser Diffraction-Based Particle Size
	7/25 @ 12:00-1:00pm		Distribution Analysis of Indoor Settled Dust
Pergantis, Elias Nikolaos	Poster #1263 presented	Liam Q Johnson†	Smart PV and Battery Control at the
	7/25 @ 10:30-11:30am	Lokesh Sriram*	Purdue DC Nanogrid House
		Benjamin Garrett Drillings* Levi Darian Reyes Premer*	
Peroulis, Dimitrios	Poster #1614 presented	Jose Abraham Bolanos Vargas†	Automated Testing Toolbox for Power
	7/25 @ 1:30-2:30pm		Amplifiers and Antennas in
			Communication Systems
Peters, Ryan George	Talk #7039 presented	Sarah Jimenez Rojas†	Enhancing Transfection Efficiency of
Dhara Khai Owah Tian	7/25 @ 11:00am	Magain Kinat	Hepatitis C Virus in Cell Culture
Pham, Khai Quynh Tien	Poster #1672 presented 7/25 @ 1:30-2:30pm	Maggie Kim†	Effect of Metal Ions on Tau Aggregation: A Study on Kinetics and Characterization
Pienaar, Elsje	Talk #7097 presented	Tyler S Dierckman†	Pharmacokinetic and Pharmacodynamic
	7/25 @ 3:20pm		Assessment of Tigecycline Treatment for
			Nontuberculous Mycobacterium
Dika Hannah	Doctor #1602 procented	Dilay James Debart Maddent	Infections Evaluating the Rediction Hardness of
Pike, Hannah	Poster #1602 presented 7/25 @ 1:30-2:30pm	Riley James Robert Madden†	Evaluating the Radiation-Hardness of Varying COTS EEPROMs in a Thermal
	7/25 @ 1.30-2.30pm		Neutron Environment
Pike, Hannah	Poster #1607 presented	Parker Smith†	Assessment of Composite Materials for
•	7/25 @ 1:30-2:30pm		Radiation Protection using OpenMC
			Simulations
Pike, Hannah	Poster #1608 presented	Kailyn D Steed†	Composite Material Development for
	7/25 @ 1:30-2:30pm		Simultaneously Shielding Neutron and Gamma Radiation
Pikes, Tyler Renee	Poster #1012 presented	Sofia Victoria Duran Quiroga†	THE EFFECTS OF IL-17/ACT1 SIGNALING
rikes, Tyler Kellee	7/25 @ 9:00-10:00am	Joha Victoria Duran Quiroga	ON INNATE IMMUNE CELLS
Pipes, R Byron	Poster #1472 presented	Armando David Galicia Huerta†	Hybrid Printing with Continuous and
	7/25 @ 12:00-1:00pm	Thomas Edgardo Schmitz‡	Discontinuous fibers
Pollei, Thomas J	Poster #1268 presented	Carolyn Sun†	Simulation of Membrane Deflection
	7/25 @ 10:30-11:30am		Response to Temporally Impulsed Optical
Porterfield, D. Marshall	Poster #1423 presented	Grace Anne Stanton†	Pressure Nepenthes on a Cellular and
· orternera, zrimarenan	7/25 @ 12:00-1:00pm		Biomolecular Level
Porterfield, D. Marshall	Talk #7087 presented	Simone Xin Moulton†	Mycoponics: Advanced hydroponics
	7/25 @ 3:00pm	Adriana K Sanchez*	technology for production of mycelial
			leather
Proctor, Caitlin Rose	Poster #1422 presented	Katie Nicole Smith†	Effect of Long-Term System Disuse on
Proctor Caitlin Poss	7/25 @ 12:00-1:00pm Poster #1645 presented	Mallory A Luse†	Pipe Wall Biofilms Designing Methods for Generating PVC-
Proctor, Caitlin Rose	7/25 @ 1:30-2:30pm	Ivialioty A Luse	coated Magnetic Beads for High-
	7,25 & 1.50 2.50pm		throughput Microbiome Propagation
Proctor, Caitlin Rose	Poster #1647 presented	Lillian Grace Maldia†	Characterizing Microbial Water Quality in
<u>, </u>	7/25 @ 1:30-2:30pm		Rural Wells
Proctor, Caitlin Rose	Talk #7046 presented	Salomon Caro Castillo†	Effect of different microbial inoculum
	7/25 @ 12:20pm		over bacterial colonization and biofilm
			formation in basil (Ocimum basilicum)
			hydroponics.

Mentor Name	Presentation	Students	Title
Pyrak-Nolte, Laura J	Poster #1233 presented	Erin Duell†	Wave Propagation in a Simple Fracture
	7/25 @ 10:30-11:30am		Network
Pyrak-Nolte, Laura J	Poster #1235 presented	Alexis Nicole Hensley†	Machine Learning Analysis of Seismic
	7/25 @ 10:30-11:30am		Coda Signals to Monitor Shear and
Donal Malta Laura I	Dt #1226	Decree take Theorem	Hydraulic Stimulation in Fractured Rock
Pyrak-Nolte, Laura J	Poster #1236 presented 7/25 @ 10:30-11:30am	Reagan John Thompson†	Shearing Fracture Networks
Pyrak-Nolte, Laura J	Poster #1255 presented	Ozan Altuntas†	Investigation of the Formation of
r yrak-Norte, Laura J	7/25 @ 10:30-11:30am	Ozan Altuntas	Fracture Intersection Geometry
Qazi, Taimoor Hasan	Poster #1262 presented	Kyle Jeffery Heaton†	Investigating fibroblast response to
Qu2., 10	7/25 @ 10:30-11:30am	N, ie seller, measell	porous hydrogel implantation in a mouse
	, , , ,		model of volumetric muscle loss.
Qazi, Taimoor Hasan	Poster #1434 presented	Zhiyuan Chen†	Hydrolytically Degradable Hyaluronic
	7/25 @ 12:00-1:00pm		Acid Hydrogels for Biomedical
			Applications
Qiao, Li	Poster #1055 presented	Thomas B Wooldridge†	Clean and Efficient Hybrid Propulsion
	7/25 @ 9:00-10:00am		System for Drones
Qiao, Li	Poster #1256 presented	Ishaan Breinig†	Evaluation of Flammability Mitigation in
	7/25 @ 10:30-11:30am		Lithium-Ion Batteries Using Phosphorous
Ou Mina	Talls #7105 procented	Kayla V. Vut	Based Electrolyte Additives Creating Programmable Home Radon
Qu, Ming	Talk #7105 presented 7/25 @ 4:00pm	Kayla Y. Xu†	Measurement
Qu, Zihan	Talk #7111 presented	Levi M Johnson†	Discovery of the First-in-class SHP1
Qu, Zillall	7/25 @ 4:40pm	Levi Wi Joinison	Covalent Inhibitor for Cancer
	7,25 @ 1.10p		Immunotherapy
Quinn, Daniel	Poster #1441 presented	Solomon J Houchen†	Summer 2024 Research Assistance: Corn
. ,	7/25 @ 12:00-1:00pm		Sampling
Qureshi, Ahmed Hussain	Talk #7104 presented	Junyoung Kim†	Robust-object-retrieval-via-manipulation
	7/25 @ 4:40pm		
Rahman, Md Ashiqur	Poster #1054 presented	Lily Avery Waterman†	Fabrication of Thermally Insulative
	7/25 @ 9:00-10:00am		Membranes for Dehumidification
Rajendran, Sathish	Poster #1046 presented	Nistha Shrestha†	Efficient and Selective Removal of
	7/25 @ 9:00-10:00am		Arsenic Variants from Drinking Water
Ramani, Karthik	Poster #1007 presented	Rishika Bera†	PrimerCurator: An LLM Powered
	7/25 @ 9:00-10:00am		Multimedia Educational Content Design and Creation Tool
Ramani, Karthik	Poster #1053 presented	Nishant Vasan†	Tracking the Trajectory and Spin
Namani, Kartink	7/25 @ 9:00-10:00am	Haddy Elie Alchaer‡	Dynamics of a Table Tennis Ball
Ramesh, Manu	Poster #1265 presented	Jiawen Lyu†	Auto Retrieval of Specific Cows from
,	7/25 @ 10:30-11:30am	,	Unlabeled Videos
Ramirez Gutierrez, Diana	Talk #7063 presented	Mahagani Lasciers†	Significance of Corn Stover Fermentable
Milena	7/25 @ 1:40pm		Sugars on Oxalic Acid Production by
			Aspergillus niger Fermentation
Ramkrishna, Doraiswami	Talk #7070 presented	Kyenret Yakubu Ayuba†	Learning Nucleation by Reversing It: A
	7/25 @ 2:20pm		Molecular Dynamics Study of
- · · · · · · · ·			Amorphization of Organic Molecules
Raturi, Ankita	Talk #7079 presented	William David Quintero	Knowledge Representation Trends in
Davidahayah Danial D	7/25 @ 2:20pm	Gallego† Lane Bell†	Midwestern Community Food Maps Examining Diversity Trends of Co-
Raudabaugh, Daniel B	Poster #1062 presented 7/25 @ 9:00-10:00am	Bryan Reyes‡	Infectious Organisms within Native
	7/23 @ 9.00-10.00am	bi yan keyest	Indiana Rust
Raudabaugh, Daniel B	Poster #1274 presented	Bryan Reyes†	Investigating Leotiomycetes from Indiana
nadadagn, barner b	7/25 @ 10:30-11:30am	Lane Bell‡	Aquatic Ecosystems
Raut, Bibek	Poster #1045 presented	Neelesh Sarathy†	Pig Behavior Recognition using Machine
•	7/25 @ 9:00-10:00am	,	Learning
Reibman, Amy R	Poster #1265 presented	Jiawen Lyu†	Auto Retrieval of Specific Cows from
	7/25 @ 10:30-11:30am		Unlabeled Videos
Reimer, Torsten	Talk #7094 presented	Meghna Swaminathan†	SAI: Integrating Cognitive, Social, and
	7/25 @ 3:20pm		Engineering Principles for Large-scale
			Planning of Public Charging Infrastructure

Mentor Name	Presentation	Students	Title
Reklaitis, Gintaras	Poster #1034 presented	Aishwarya Menon†	Recovering Active Pharmaceutical
	7/25 @ 9:00-10:00am		Ingredients from Expired Drugs
Ren, Hanwen	Talk #7104 presented 7/25 @ 4:40pm	Junyoung Kim†	Robust-object-retrieval-via-manipulation
Reppert, Michael Earl	Poster #1232 presented	Ana Colliton†	Classical to Quantum: Two-Dimensional
	7/25 @ 10:30-11:30am	Bryan Borosky‡	Acoustic Spectroscopy
Reppert, Michael Earl	Talk #7017 presented 7/25 @ 10:20am	Tristen M West†	Complete Characterization of Isotope- enriched Proteins to Improve Vibrational Spectroscopy Simulations
Richards, Alyssa Marine	Poster #1227 presented	Joslyn Renee Ferguson†	The Effects of the SGLT2 Inhibition on
	7/25 @ 10:30-11:30am	Niharika Narra‡	Cardiac Function in Mice with Duchenne
		John Patrick Salvas*	Muscular Dystrophy
Richards, William Stephen	Poster #1602 presented 7/25 @ 1:30-2:30pm	Riley James Robert Madden†	Evaluating the Radiation-Hardness of Varying COTS EEPROMs in a Thermal Neutron Environment
Rishabh, Kumar	Poster #1050 presented 7/25 @ 9:00-10:00am	Drake William Strait†	Characterization and immunotherapeutic targeting of the tumor microenvironment
Ristroph, Kurt	Poster #1436 presented 7/25 @ 12:00-1:00pm	Luke DeLion†	Formulation Engineering to Improve Drug Dissolution Kinetics in GI Tract
Ristroph, Kurt	Talk #7056 presented 7/25 @ 1:20pm	Katy Brauer†	Dry Direct Flash NanoPrecipitation for integrated high-throughput nanoparticle powder preparation
Ro, Bohyun	Poster #1461 presented 7/25 @ 12:00-1:00pm	Paul William Swift [†]	Long-term Effects of Repeated, Episodic Heat Exposure on Cardiac Structure and Function in Aged, Obese Mice
Roach, Mikayla Angelique	Poster #1048 presented 7/25 @ 9:00-10:00am	Shreya Sinha†	Alterations in Extracellular Matrix Gene Expression Resulting from Nonequibiaxial Cyclic Stretch of Synoviocytes
Rochet, Jean-christophe	Poster #1668 presented 7/25 @ 1:30-2:30pm	Jacob Gold†	Protective Effects of Polyphenols Against Alpha-Synuclein Aggregation in a Cellular PFF Model of Parkinson's Disease
Rodenbeck, Sarah	Talk #9002 presented 7/25-8/01 virtually	Austin Riley Lovell† Philip Wisniewski†	AI-Powered Operational Data Analytics: Predicting Job Queue Times on ANVIL
Rodenbeck, Sarah	Talk #9007 presented 7/25-8/01 virtually	Philip Wisniewski† Austin Riley Lovell†	AI-Powered Operational Data Analytics: Predicting Job Queue Times on ANVIL
Rogers, Abigail Keelin	Poster #1238 presented 7/25 @ 10:30-11:30am	Elise Bennett†	Functionally Characterizing RipUK60, a Type III Effector of Ralstonia solanacearum
Rojas de Oliveira, Hinayah	Poster #1224 presented 7/25 @ 10:30-11:30am	Alejandro Daza Gallo†	Genomic imputation and prediction analysis: Unraveling genetic variability in dairy cattle
Rojas de Oliveira, Hinayah	Poster #1425 presented 7/25 @ 12:00-1:00pm	Rieko Simone Wilford† Alejandro Daza Gallo* Jihyo Park*	Revolutionizing Cattle Environmental Sustainability using Precision Monitoring
Rojas Gutierrez, Juan Diego	Talk #7001 presented 7/25 @ 9:20am	Santiago Reinoso Castillo†	The genetic basis of inflorescence architecture in Arabidopsis thaliana: implications for adaptation and maladaptation
Roldan Carvajal, Mateo	Poster #1630 presented 7/25 @ 1:30-2:30pm	Zhichen Guan†	Investigation of ionocaloric refrigeration cycle: Thermodynamic model analysis and proof of concept
Rosenberger, Joanna Marie	Poster #1400 presented 7/25 @ 12:00-1:00pm	Errol B Alden†	Coke Formation on Catalysts
Ruan, Xiulin	Poster #1634 presented 7/25 @ 1:30-2:30pm	Ricardo Andrews Huertas†	Biodegradable Hexagonal Boron Nitride Films for Bio-Inspired Radiative Cooling
Saad, Shams	Poster #1277 presented 7/25 @ 10:30-11:30am	Zack Kyner†	Analysis of Cytoskeleton Remodeling in Egg-to-Embryo Transition
Sahoo, Anmol	Poster #1464 presented 7/25 @ 12:00-1:00pm	Kartavya Vashishtha†	Data Staleness in Irmin over Partial Quorum Datastores

Mentor Name	Presentation	Students	Title
Sakkarai Mohamed, Asha	Poster #1005 presented	Sebastian Rosario Torres†	Anti-Cancer Potential of NR07: A Novel
Parveen	7/25 @ 9:00-10:00am	Monika Malik‡	Indole-based chalcone Derivative
			Targeting ROS-Mediated Apoptosis and
			Tubulin Dynamics
Saldivar Carranza, Enrique	Poster #1051 presented	Vihaan Vajpayee†	Evaluating Intersection Safety through
Daniel	7/25 @ 9:00-10:00am	Andrew Joseph Thompson*	Hard Braking Events: A Comparative
	1		Analysis of Signalized Intersections,
			Roundabouts, and All-Way Stops Using
			Connected Vehicle Data
Saldivar Carranza, Enrique	Poster #1269 presented	Andrew Joseph Thompson†	Evaluating the Use of LiDAR Traffic Data
Daniel Daniel	7/25 @ 10:30-11:30am	Vihaan Vajpayee*	for Assessing Infrastructure
Salem, Abdelrahman	Poster #1035 presented	Tyler Merrill†	Membrane-Less Protein Condensates
Salem, Abdellamman	7/25 @ 9:00-10:00am	Tyler Merriii	Weilibraile-Less Frotein Condensates
Salome Rivera, Diamarys	Talk #7061 presented	Nina A Borkowski†	Synthetic methods to control Al siting
Salottie Rivera, Diamarys	•	Talana N Small‡	
	7/25 @ 1:00pm	Talana N Sman+	and crystallite size in MFI zeolites for
6 1 1 11	D		propene oligomerization
Sankaranarayanan, Karthik	Poster #1415 presented	Joel Jenson Kuriakose†	Predicting binding of NADPH/ NADH
	7/25 @ 12:00-1:00pm		family of Cofactors to Enzymes Using
			Machine Learning
Sankaranarayanan, Karthik	Talk #7103 presented	Adam G Weber†	Data-Driven Insights into Enzyme
	7/25 @ 4:20pm		Reaction Catalysis for Green Chemistry
Santiago Vargas, Alex David	Poster #1614 presented	Jose Abraham Bolanos Vargas†	Automated Testing Toolbox for Power
	7/25 @ 1:30-2:30pm		Amplifiers and Antennas in
			Communication Systems
Sathar, Bazil Muhammed	Poster #1073 presented	Isabel M Owens†	Synthesizing Functionalized Pillarenes for
	7/25 @ 9:00-10:00am		Precision Polymer Synthesis
Savoie, Brett	Poster #1014 presented	Anja Hribljan†	Spectral Deconvolution Models for
	7/25 @ 9:00-10:00am	Daniel Sich‡	Interpreting Reaction Outcomes
Savoie, Brett	Poster #1047 presented	Daniel Sich†	Spectral Deconvolution Models for
,	7/25 @ 9:00-10:00am	Anja Hribljan‡	Interpreting Reaction Outcomes
Savoie, Brett	Talk #7009 presented	Aakarsh Misra†	Large Property Models for Predictive
,	7/25 @ 9:40am		Chemistry
Schaekel, Isabelle Kathryn	Poster #1030 presented	Uyen Linh Ly†	Development of Water-Resistant
,	7/25 @ 9:00-10:00am	- ,	Adhesives by Adding Proteins to a Bio-
	1,20 € 0.00 20.00		Based Epoxy System
Schepers, Luke	Poster #1461 presented	Paul William Swift†	Long-term Effects of Repeated, Episodic
Seriepers, Edite	7/25 @ 12:00-1:00pm	Tadi William Switch	Heat Exposure on Cardiac Structure and
	7/23 @ 12:00 1:00piii		Function in Aged, Obese Mice
Schmitt, Douglas R	Poster #1001 presented	Angee Paola Lopera Restrepo†	Constraining tectonic stresses in the
John Mitt, Douglas IV	7/25 @ 9:00-10:00am	Wayne Wheeler Kottkamp‡	scandinavian caledonides
Schneebeli, Severin Thomas	Poster #1073 presented	Isabel M Owens†	Synthesizing Functionalized Pillarenes for
Schnieeben, Severin Hiblilds	· ·	isabel IVI OWELIS!	1 -
Cobnoobali Coverin Theory	7/25 @ 9:00-10:00am	She Amagait	Precision Polymer Synthesis
Schneebeli, Severin Thomas	Poster #1612 presented	Sho Amagai†	Versatile Covalent Molecular Cages: From
Calcadia Anala Dania	7/25 @ 1:30-2:30pm	Levi M Johnson†	Synthesis to Therapeutic Applications
Schofield, Andrew Bartlett	Poster #1014 presented	Anja Hribljan†	Spectral Deconvolution Models for
	7/25 @ 9:00-10:00am	Daniel Sich‡	Interpreting Reaction Outcomes
Schofield, Andrew Bartlett	Poster #1047 presented	Daniel Sich†	Spectral Deconvolution Models for
	7/25 @ 9:00-10:00am	Anja Hribljan‡	Interpreting Reaction Outcomes
Schultz, Kelly	Poster #1027 presented	En-tsz Liu†	Molecular Release Experiments from
	7/25 @ 9:00-10:00am		Micro-fibrillated Cellulose
Seetharaman, Sivaranjani	Poster #1633 presented	Hsin-Wei Hsieh†	Optimizing the Transition to Clean Energy
	7/25 @ 1:30-2:30pm		in the US MISO Region Power Grid
Sekiya, Ryoh-suke	Poster #1613 presented	Arjun Singh Bhadoria†	The Effect of Zeolitic Acids on the
· · · · · ·	7/25 @ 1:30-2:30pm	_	Formation of Hydronium Ions in Liquid
	· ·		Water
Sepulveda, Maria Soledad	Poster #1231 presented	Cora Jane Reynolds†	Can Hemoglobin binding models be used
, ,	7/25 @ 10:30-11:30am	Lail Shaw†	to predict toxicity of mixtures of Forever
	,	Hallie Grace Jackson‡	Chemicals???
		Traine Orace Jackson+	Circillicais:::

Mentor Name	Presentation	Students	Title
Seshadri, Akul	Poster #1036 presented	Logan Mick†	The Influence of a Novel Hydrogel
	7/25 @ 9:00-10:00am		Composition on Mechanical Properties of
			High-Performance Mortar
Sethu Viji, Rudra	Talk #7072 presented	Kara Rochelle McCrindle†	In-vitro Assessment of Patient-Specific
	7/25 @ 2:00pm		Cerebral Aneurysm Models for
			Hemodynamic Analysis using Particle
Couton Jachus	Tall, #7020	Makayla Nicole Phillips†	Image Velocimetry and 4D Flow MRI
Sexton, Joshua	Talk #7030 presented 7/25 @ 11:00am	iviakayia ivicole PhillipsT	Automated Histomorphological Assessment of Muscle Health and Healing
	7/25 @ 11.00aiii		in a Preclinical Volumetric Muscle Loss
			Model
Shah, Kavita	Poster #1005 presented	Sebastian Rosario Torres†	Anti-Cancer Potential of NR07: A Novel
Jilali, Kavita	7/25 @ 9:00-10:00am	Monika Malik‡	Indole-based chalcone Derivative
	7723 @ 3.00 10.00am	Wiering Wank	Targeting ROS-Mediated Apoptosis and
			Tubulin Dynamics
Shakouri, Ali	Talk #7024 presented	Everett Mason†	Real-time manufacturing machine
	7/25 @ 10:00am		monitoring in edge analytics using
	7/25 @ 10.00dill		electrical current consumption: Case
			study of plasma etcher operation and
			condition prediction
Shan, Nannan	Talk #9000 presented	Nihar Kodkani†	Molecular Chemistry Gateway:
Shari, Namian	7/25-8/01 virtually	Selina Lin‡	Developing Open OnDemand
	, == =, == :,		Applications for Purdue's Anvil Cluster
Shan, Nannan	Talk #9001 presented	Selina Lin†	Facilitating Research through Developing
	7/25-8/01 virtually	Nihar Kodkani‡	Application Gateways on Anvil
Shan, Xiwei	Poster #1460 presented	Paula Sanchez Ulloa†	Enhancing Bio-based Adhesive
	7/25 @ 12:00-1:00pm		Performance for Sustainable Plywood:
	, , , ,		Optimizing Processing Pressure for
			Improved Mechanical Strength
Sharifian, Seyedmehdi	Poster #1438 presented	Victor Alexander Dossin†	Selective Leaching of Rare Earth Element
	7/25 @ 12:00-1:00pm		Compounds using Organic Acid
Sharma, Arpan Kumar	Poster #1429 presented	Trisha Boodhoo†	Physics and Analytics of Lithium Batteries
<u> </u>	7/25 @ 12:00-1:00pm		<u> </u>
Sharma, Ayushi	Poster #1465 presented	Gaurav Vermani†	C to Rust: Manual Conversion Methods
	7/25 @ 12:00-1:00pm		and Standardized Dataset Creation
Sharma, Shashank	Poster #1465 presented	Gaurav Vermani†	C to Rust: Manual Conversion Methods
	7/25 @ 12:00-1:00pm		and Standardized Dataset Creation
Sharma, Shivam	Poster #1037 presented	Tomas Montoya†	Steel Bridge Inspection, Assessment,
	7/25 @ 9:00-10:00am		Repair, and Management under FIRE
Sharma, Tasneem	Poster #1667 presented	Emmanuel Monda Gichaba†	Optimizing Translaminar Autonomous
	7/25 @ 1:30-2:30pm	Gaurav Sharma‡	System Model Performance Utilizing
			Poseidon Pump Feedback Loop System
Shashurin, Alexey	Talk #7043 presented	Mathis Malaussena†	Design and Implementation of an
	7/25 @ 12:20pm		Inductively Coupled Plasma Neutralizer
al v	2		for SPT-100 Hall Thruster
She, Yu	Poster #1020 presented	Jai Nanda Lakamsani†	Tactile-based reactive control for robotic
Cl. W. "	7/25 @ 9:00-10:00am		manipulation
Shen, Xiaoling	Poster #1638 presented	Jake Kim†	Modeling of additive manufacturing
	7/25 @ 1:30-2:30pm		powder for laser powder bed fusion
Chin Cung IIa	Doctor #1022	Joseph Marrart	applications.
Shin, Sung-Ho	Poster #1033 presented	Joseph Mayer†	The Effect of Statistical Sequence Control
	7/25 @ 9:00-10:00am		on PLGA Degradation in Langmuir
Shishikura, Sota	Poster #1076 presented	Lev Titov†	Monolayers Systemic delivery of Polymyxin B by iron-
JIIISIIIKUI d, JUld	7/25 @ 9:00-10:00am	LEV IILOV	tannic Acid-albumin nanocomplex for
	1/23 @ 3.00-10.00am		treatment of endotoxemia.
Shoof Troyor Joan	Talk #7007 procepted	Tylor S Diorekmant	
Shoaf, Trevor Jaan	Talk #7097 presented	Tyler S Dierckman†	Pharmacokinetic and Pharmacodynamic
	7/25 @ 3:20pm		Assessment of Tigecycline Treatment for
			Nontuberculous Mycobacterium Infections
			IIIIECUOIIS

Mentor Name	Presentation	Students	Title
Sieh, Broderick Michael	Poster #1427 presented	Apoorva Bahl†	Enhancing the Gallium Thermal Hydraulic
	7/25 @ 12:00-1:00pm	Stella Mae Betts‡	Experiment (GaTE) Facility with Remote Automation for Advanced Reactor Simulation
Sieh, Broderick Michael	Poster #1428 presented	Stella Mae Betts†	Enabling Remote Sensing and Remote
	7/25 @ 12:00-1:00pm	Apoorva Bahl‡	Operation of the Gallium Thermal
	, -		Hydraulic Experiment (GaTE) Facility
Simpson, Garth J	Poster #1669 presented	Alexander Higgins†	Dark-Field Absorbance Circular Dichroism
ompoon, carens	7/25 @ 1:30-2:30pm	, mexameer ringgins	of Oriented Chiral Thin Films
Sims, Christopher Savion	Talk #7108 presented	Winston Yusong Lin†	Embedding algorithm for D-wave
, ,	7/25 @ 4:00pm	S	quantum computers
Simsek, Senay	Poster #1249 presented	Minghao He [†]	Enzymatic treatment of hemp for highly
	7/25 @ 10:30-11:30am		functional plant-based meat ingredient in commercial manufacturing.
Sinelli, Alexander Gregory	Poster #1406 presented	Dania M Zein†	Transitions Between Electron Emission
Silicili, Alexander Gregory	7/25 @ 12:00-1:00pm	Bulliu IVI Zelli	Mechanisms in Semiconductors
Singh, Richa	Poster #1212 presented	Yu-Wei Cheng†	Understanding the mechanisms
Singh, Micha	7/25 @ 10:30-11:30am	To were lieng.	underlying host preferences in
	7/25 @ 10.50 11.504111		Uranotaenia lowii, a frog-biting mosquito
Singh, Richa	Poster #1213 presented	Chloe Elizabeth Greco†	The role of Olfactory Cues for Host
Siligii, Kiciia		Cilide Elizabeth Grecov	
	7/25 @ 10:30-11:30am		Localization in Frog-Biting Mosquito, Uranotaenia Iowii
Circle Diebe	Doot on #1214 mass and ad	Farrage Cabust	
Singh, Richa	Poster #1214 presented	Eavan Sohr†	The role of visual cues in host seeking
	7/25 @ 10:30-11:30am		behavior in Uranotaenia lowii, a frog-
6: 1 7:::1	D : #4604	5 45 14	biting mosquito
Singh, Titiksha	Poster #1604 presented	Evan N Reid†	High-power Energy-dispersive X-Ray
	7/25 @ 1:30-2:30pm		Fluorescence used to quantify and
			identify heavy metals concentrations, as
			well as the effect of Pb and Ni, in the air
			of Accra, Ghana.
Singhal, Kratika	Poster #1219 presented	Emma Litzelman†	SHIP1 phosphatase as a Late-Onset
	7/25 @ 10:30-11:30am		Alzheimer's Disease therapeutic target
Slizovskiy, Ilya	Poster #1008 presented	Reed G Brzezinski†	Antimicrobial Resistance and Fecal
	7/25 @ 9:00-10:00am		Microbiota Transplantation
Smith, Alyssa	Poster #1063 presented	Bea Olivia Cabot†	Repeatability of Cranial Morphometrics
	7/25 @ 9:00-10:00am		in the Pig
Smith, Alyssa	Poster #1409 presented	Samantha Teal Fairchild†	Effects of Intrauterine Growth Restriction
	7/25 @ 12:00-1:00pm		(IUGR) on Pre-Weaning Performance in
			Swine
Smith, Alyssa	Poster #1666 presented	Chiara Isabella Gibboney†	Understanding the Acute Hematological
	7/25 @ 1:30-2:30pm		Impact of Intrauterine Growth
			Retardation in Swine
Smith, Christopher W	Poster #1609 presented	Jayla N Wilcox†	Assessment of Metal Exposure in Dried
	7/25 @ 1:30-2:30pm		Blood Samples from the Health and
			Retirement Survey
Solorio, Luis	Poster #1031 presented	Matthew William Margraf†	Quantitative Characterization of
	7/25 @ 9:00-10:00am		Cerebrospinal Fluid Electrolytes in Animal
			Models of Intrathecal Delivery
Solorio, Luis	Poster #1632 presented	Ana S Hernandez†	Optimizing Nanobubble Shell Properties
	7/25 @ 1:30-2:30pm	Stephanie Maureen Poore†	for Enhanced Cardiovascular Ultrasound
			Imaging
Solorio, Luis	Poster #1646 presented	Maria Macias†	Exploring the dynamics of breast cancer
	7/25 @ 1:30-2:30pm	Angelica Sofia Gonzalez-Ng*	metastasis in relation to the high
			throughput magnetic actuation platform
			and lung respiration rates
Song, Qifan	Poster #1461 presented	Paul William Swift [†]	Long-term Effects of Repeated, Episodic
	7/25 @ 12:00-1:00pm		Heat Exposure on Cardiac Structure and
			Function in Aged, Obese Mice
Specht, Aaron James	Poster #1404 presented	Bethany Faber†	Environmental Contamination and Birth
	7/25 @ 12:00-1:00pm	1	Defects in Iraq
	, ·	1	

Mentor Name	Presentation	Students	Title
Specht, Aaron James	Poster #1609 presented 7/25 @ 1:30-2:30pm	Jayla N Wilcox†	Assessment of Metal Exposure in Dried Blood Samples from the Health and Retirement Survey
Sripada, Shanmukhi	Talk #7037 presented 7/25 @ 11:20am	Lindsay Kathryn Sutherland†	Impact of Slot Liner Compression and Wire Geometry on the Total Thermal Resistance in the Electric Motor's Stator-Winding Assembly
Staiger, Christopher J	Poster #1435 presented 7/25 @ 12:00-1:00pm	Rem Quintin Villanueva David†	Revealing the Role of Reactive Oxygen Species in Actin Cytoskeleton Remodeling During Plant Immunity
Stallman, Jeffery Kirk	Poster #1274 presented 7/25 @ 10:30-11:30am	Bryan Reyes† Lane Bell‡	Investigating Leotiomycetes from Indiana Aquatic Ecosystems
Stanhope, Sarah Caroline	Poster #1413 presented 7/25 @ 12:00-1:00pm	Madolyn Marie Jarrett†	Investigating AHCY Interacting Partners in Drosophila S2 Cells.
Strachan, Alejandro H	Talk #7036 presented 7/25 @ 11:00am	Stephen Brice Rider† Sabria Kionna Nesmith‡	Machine Learning Force Field for Ceramics at Extreme Conditions
Strohmier, Brayden Paul	Poster #1471 presented 7/25 @ 12:00-1:00pm	Brett Andrew Anderson†	Characterizing In-vitro Prostate Cancer Cell Responses to Combination Treatment
Subah, Mohseu Rashid	Poster #1469 presented 7/25 @ 12:00-1:00pm	Mohammed Abdul Gani Zilani†	Automatic Fracture Risk Prediction from HR-pQCT
Subramanian, Ramaswamy	Poster #1252 presented 7/25 @ 10:30-11:30am	Angel Ortiz†	Mapping Local Resolution to Coordinates
Sun, Dengfeng	Poster #1677 presented 7/25 @ 1:30-2:30pm	Chadi Harmouche†	Energy-Optimal Arrival Route Planning for Operations of Multiple Unmanned Aerial Vehicles
Sun, Dengfeng	Talk #7098 presented 7/25 @ 3:40pm	Taeha Jeong†	Simulation-based Single Cargo Drone Stabilization Using Reinforcement Learning
Sundaram, Shreyas	Talk #7102 presented 7/25 @ 4:00pm	Mathias Erik Bock Agerman†	Wireless Sensor Network Deployment in Contested and Denied Undersea Environments
Suresh, Vallabh	Talk #7060 presented 7/25 @ 1:40pm	Sungyu Choi†	Human Papillomavirus E6 N-terminus Role for E6-p53 Interaction in E6AP-E6- p53 Complex
Surowiec, Rachel Kathleen	Poster #1469 presented 7/25 @ 12:00-1:00pm	Mohammed Abdul Gani Zilani†	Automatic Fracture Risk Prediction from HR-pQCT
Surowiec, Rachel Kathleen	Poster #1652 presented 7/25 @ 1:30-2:30pm	Gayatri Pradeep†	Establishing Temporal Bone Quality Changes in Progressive Chronic Kidney Disease: A Focus on Bone Water
Suter, Daniel	Poster #1074 presented 7/25 @ 9:00-10:00am	Twesha Ray†	Polyacrylamide hydrogels with defined elastic and surface properties for neurite outgrowth studies
Suter, Daniel	Talk #7019 presented 7/25 @ 10:00am	Nikhil Samit Sadavarte† Anshul Sanjeev† Katie Manfra‡	Pramipexole as a potential enhancer of regeneration after zebrafish spinal cord injury
Tackett, Brian Michael	Talk #7014 presented 7/25 @ 10:20am	Chunge Li†	Investigation of Hydrogen Evolution and local pH in Aqueous Zinc Ion Batteries
Taleyarkhan, Rusi P	Poster #1009 presented 7/25 @ 9:00-10:00am	Marie Emilie Charbonnier†	Radon Detection : A novel method using Centrifugally Tensioned Metastable Fluid Detector
Taleyarkhan, Rusi P	Poster #1448 presented 7/25 @ 12:00-1:00pm	Qi Heng Law†	Novel neutron-gamma radiation detectors based on PLA biopolymer detector (PLAD) sensor technologies.
Taleyarkhan, Rusi P	Poster #1653 presented 7/25 @ 1:30-2:30pm	Abhishek Raj†	Identifying Radiation Particles through Acoustic Shock Signals: A Deep Learning Perspective
Tan, Lin	Poster #1627 presented 7/25 @ 1:30-2:30pm	Samuel Duprey†	Benchmark Dataset for Fixing Software Vulnerabilities

Mentor Name	Presentation	Students	Title
Tan, Lin	Talk #7002 presented	Michael Cheng†	Contrastive Learning in Language Models
	7/25 @ 9:40am		for Software Vulnerability Detection
Tanamachi, Robin L	Poster #1474 presented	Lindsey Renee Peterson†	Digitizing Purdue's Role in Tornado
	7/25 @ 12:00-1:00pm	Owen Ray Rahman†	Science: Preserving Materials from the
		Maliyah Ann Smith†	1974 Super Outbreak in Indiana
Tanoos, James	Poster #1229 presented	Joon Kang†	Sustainable Manufacturing: An analysis
	7/25 @ 10:30-11:30am		of environmental impact associated with
			ammonia emissions in North Carolina
			tobacco production
Tao, Weiguo Andy	Poster #1420 presented	Nathaniel Merrick Miller†	Benchmarking Dimethyl Labeling-based
	7/25 @ 12:00-1:00pm		Data-Independent Acquisition Pipelines
			for Extracellular Vesicle Proteomics and
			Phosphoproteomics
Tecle, Lucy Teberh	Talk #7016 presented	Akansha Chauhan†	Paper-Based Assay for Early Cervical
	7/25 @ 10:00am		Cancer Screening
Tesini Roseguini, Bruno	Poster #1461 presented	Paul William Swift†	Long-term Effects of Repeated, Episodic
	7/25 @ 12:00-1:00pm		Heat Exposure on Cardiac Structure and
			Function in Aged, Obese Mice
Tesmer, John	Poster #1072 presented	Kathryn P McCauley†	Development of Potent and Selective
	7/25 @ 9:00-10:00am		GRK5 inhibitors
Tesmer, John	Talk #7050 presented	Nikki Leslie†	Targeting GRK5 in Metastatic Cancer:
•	7/25 @ 12:00pm		Structural Insights and Therapeutic
	' - '		Evaluation of Novel Inhibitors
Thakkar, Dutt Jagdish	Talk #7092 presented	Daniel Camilo Puentes	Indiana Economic Development and
,	7/25 @ 3:40pm	Rodriguez†	Supply Chain Leakage Reduction
	, , , , , , , , , , , , , , , , , , , ,	Kely Johanna Monroy	, , , , , , , , , , , , , , , , , , , ,
		Malagon†	
Thompson, David	Poster #1042 presented	Ankita Prasad†	Development of Elastin-Like Polypeptide
, , , ,	7/25 @ 9:00-10:00am		Based Nucleic Acid Delivery System for
	1,20 € 0.00 20.00		Treatment of Bladder Cancer
Thompson, David	Poster #1453 presented	Louden James Maciag†	Improvement in Epichlorohydrin
	7/25 @ 12:00-1:00pm	200000000000000000000000000000000000000	Coupling for More Effective Drug
	7,25 € 22.00 2.00β		Synthesis
Titus, Michael	Poster #1447 presented	Manila Kunwar†	Characterization and Improvement of
	7/25 @ 12:00-1:00pm	Ruey-Bin Tsai‡	Vegetable Oils as Quenchants for Heat
	, , , ,	Junyeong Ahn‡	Treatment of Metals
Titus, Michael	Poster #1610 presented	Junyeong Ahn†	Characterization of Vegetable-Based Oils
	7/25 @ 1:30-2:30pm	Manila Kunwar‡	as Sustainable Quench Oil Replacements
	, 10 11 11	Ruey-Bin Tsai‡	and Practicality Assessments
Titus, Michael	Talk #7067 presented	Ruey-Bin Tsai†	Sustainable Quench Oil Replacements for
	7/25 @ 1:20pm	Junyeong Ahn‡	Austempering Salt Quenchants
	1,20 € 2.20,0	Manila Kunwar‡	The state of the s
Tonidis, Margaritis	Poster #1443 presented	Nathan Joseph†	Investigation of Bond-splitting Failure of
. ca.s,a. gas	7/25 @ 12:00-1:00pm	Edward Vane†	Post-installed rebars in Reinforced
	7,25 € 22.00 2.00β		Concrete (RC)
Torres Arias, Santiago	Poster #1266 presented	Karla Erendira Obermeier	Improving malware detection tools
. o. reo ranas, sandago	7/25 @ 10:30-11:30am	Velazquez†	p. ovgaiware detection tools
Torres Cruz, Terry Jarianna	Poster #1062 presented	Lane Bell†	Examining Diversity Trends of Co-
. S. 165 Graz, Terry Janamia	7/25 @ 9:00-10:00am	Bryan Reyes‡	Infectious Organisms within Native
	., _ 5 & 5.00 ±0.000111		Indiana Rust
Tovar, Andres	Talk #7055 presented	Sevinch Pasilova†	Fabrication of a supercritical CO2 dryer
	7/25 @ 12:40pm	Comment ashova.	and study of the effect of chitin in potato
	., _ 0 C 12.10piii		starch-based aerogels
Trabert, Leonie Marie	Poster #1245 presented	Adrian Muñoz†	Evaluation of the role of the Lateral
Trabert, Leonie Marie	7/25 @ 10:30-11:30am	AGIAII WATATOZ!	Boundary Domain Transcription Factor
	1/25 @ 10.50-11.50alll		GmLBD5 in Soybean Response to Sulfur
			Deficiency
Tran Elizaboth I	Poster #1/07 procented	Jamie Kim Pryant	Unraveling the roles of DEAD-box
Tran, Elizabeth J	Poster #1407 presented 7/25 @ 12:00-1:00pm	Jamie Kim Bryan†	helicases in eukaryotic gene regulation
	1/23 @ 12.00-1.00pill		memeases in eurai your gene regulation

Mentor Name	Presentation	Students	Title
Tripathi, Piyush Mani	Poster #1654 presented	Sidney Evan Ryan†	Accurate Surface Temperature Collection
	7/25 @ 1:30-2:30pm	En-Hua Chang‡	for Lithium-Ion Batteries
Tripathi, Piyush Mani	Talk #7032 presented	En-Hua Chang†	Single Phase Static Immersive Cooling of
	7/25 @ 11:40am	Sidney Evan Ryan‡	Cylindrical Battery - Insight of Measuring Methods and Result
Turner, Gwendylan Ariel Aura	Poster #1669 presented 7/25 @ 1:30-2:30pm	Alexander Higgins†	Dark-Field Absorbance Circular Dichroism of Oriented Chiral Thin Films
Umulis, David M	Poster #1029 presented	Lionel Yek-Yau Loo†	Segmenting EVL cell and tracking
,	7/25 @ 9:00-10:00am		individual cell movement in Zebrafish Epiboly
Un, Cagri	Poster #1430 presented 7/25 @ 12:00-1:00pm	Ryan L Bottini†	Plastic Waste Conversion into Useful Products
Unmesh, Asim	Poster #1007 presented	Rishika Bera†	PrimerCurator: An LLM Powered
	7/25 @ 9:00-10:00am		Multimedia Educational Content Design and Creation Tool
Vacca, Andrea	Poster #1261 presented	Nicolas Giesemann†	Testing and Validation of High-Efficiency
vacca, Anarca	7/25 @ 10:30-11:30am	Wicolas Glesemann	Hydraulic System for Off-Road Vehicles
Vaddadi, Sai Mahit	Talk #7009 presented	Aakarsh Misra†	Large Property Models for Predictive
	7/25 @ 9:40am		Chemistry
Varala, Kranthi	Poster #1243 presented	Samantha Lares†	Three novel transcription factors in RAV2
	7/25 @ 10:30-11:30am		C2H2, and HSF identified to play a key
			response on tomato during chilling stress
Vargas Ordonez, Cristian	Poster #1041 presented	Kayla Renae Phillips†	The PITCH Semiconductors Summer
Eduardo	7/25 @ 9:00-10:00am		Program: What High School Students
Variation Culation	Danton #1 450 mmoontod	Harrisha Chardul Datalt	Learned?
Vargas Ordonez, Cristian Eduardo	Poster #1458 presented 7/25 @ 12:00-1:00pm	Hemisha Shardul Patel†	High School Students in Engineering Design Project: Teamwork and Decisions
Vaughn, Brenna	Poster #1226 presented	Katie Wing-See Chan†	Implications of Beta1 Integrin in Cell
vaugiiii, breiiiia	7/25 @ 10:30-11:30am	Ratie Willg-See Cilairi	Density
Vayrynen, Jukka Ilmari	Talk #7075 presented	Haixuan Huang†	Superconducting Diode Effect in Two-
, , ,	7/25 @ 2:00pm		dimensional Topological Insulator Edges
			and Josephson Junctions
Velasquez De Bedout, Juan D	Poster #1224 presented	Alejandro Daza Gallo†	Genomic imputation and prediction
	7/25 @ 10:30-11:30am		analysis: Unraveling genetic variability in dairy cattle
Velay Lizancos, Maria Mirian	Poster #1018 presented	Ali Kalmagambetov†	Utilizing alternative air-entraining
	7/25 @ 9:00-10:00am		methods to enhance freeze-thaw
			durability of concrete with incorporated
			nanomaterials.
Velazquez-Marrero, Kevin	Poster #1412 presented	Nathan Michael Henderson†	Cdc14 Targeted Antifungal Drug
Gabriel	7/25 @ 12:00-1:00pm		Discovery
Velu, Dileepan	Poster #1648 presented	Nashe Bumi Mucharambeyi†	Extinction Velocities of Droplet Flames in
Verma, Mohit	7/25 @ 1:30-2:30pm Poster #1045 presented	Neelesh Sarathy†	Forced Convection Pig Behavior Recognition using Machine
verma, Monit	7/25 @ 9:00-10:00am	Neeresti Sarattiyi	Learning
Verma, Mohit	Poster #1410 presented	Anagha Gaitonde†	One-step Colorimetric Isothermal
ven et	7/25 @ 12:00-1:00pm		Detection of Live Foodborne Pathogens
Viji Elango, Arval	Poster #1645 presented	Mallory A Luse†	Designing Methods for Generating PVC-
	7/25 @ 1:30-2:30pm		coated Magnetic Beads for High-
Villarroal Cameron Vavior	Talk #7042 presented	Sarah Marie Staller†	throughput Microbiome Propagation Investigating the Relationship Between
Villarreal, Cameron Xavier	7/25 @ 12:00pm	Saran wane Staller	Gut Microbiome, Biomechanics, and
	./25 @ 12.00piii		Scoliosis: A Holistic Approach Through
			Two Complementary Studies
Vishnugopi, Bairav Sabarish	Poster #1429 presented 7/25 @ 12:00-1:00pm	Trisha Boodhoo†	Physics and Analytics of Lithium Batteries
Vlachos, Pavlos	Talk #7072 presented	Kara Rochelle McCrindle†	In-vitro Assessment of Patient-Specific
	7/25 @ 2:00pm	The restricted Meetings.	Cerebral Aneurysm Models for
	.,25 & 2.00pm		Hemodynamic Analysis using Particle
			Image Velocimetry and 4D Flow MRI

Mentor Name	Presentation	Students	Title
Volkening, Alexandria	Talk #7012 presented	Thanmaya Pattanashetty†	Forecasting the 2024 US Elections
	7/25 @ 9:40am	Joseph Michael Cromp‡	
Volkening, Alexandria	Talk #7020 presented 7/25 @ 10:20am	Alyson Jones† Kelsi Anderson†	Quantifying the veins in plants
Volkening, Alexandria	Talk #7074 presented 7/25 @ 2:40pm	Joseph Michael Cromp† Thanmaya Pattanashetty‡	Forecasting 2024 U.S. elections
Voyles, Richard M	Poster #1621 presented 7/25 @ 1:30-2:30pm	Hyunsang Cho† Christopher Li Gou‡ Aditya S Hebbani‡	Enhancing Robotic Ultrasound Image Quality Assessment
Waghmare, Dheeraj Govindrao	Poster #1052 presented 7/25 @ 9:00-10:00am	Edward Vane†	Extension of Concrete Elements Using Post-Installed Rebar Technology
Wagner, Dane Christophe	Poster #1272 presented 7/25 @ 10:30-11:30am	Keeley Vonne Farmer†	The investigation and optimization of MIP-based PFAS sensing across sample matrices
Wagner, Dane Christophe	Poster #1273 presented 7/25 @ 10:30-11:30am	Sadie A Poirier† Yashvi Choudhary‡ Megan Leigh Hill* Keeley Vonne Farmer*	Silver leakage in commercially available and bipolar reference electrodes (BPREs): a TNBC toxicity study
Wagner, Ryan B	Talk #7066 presented 7/25 @ 1:00pm	Gabriel Brandt de Toledo†	Vibrating piezoelectric membranes for water filtration applications
Wang, Haiyan	Poster #1439 presented 7/25 @ 12:00-1:00pm	David S Estrella†	Growth and modeling of nanopillars towards integrated photonic components
Wang, Jingkun	Poster #1617 presented 7/25 @ 1:30-2:30pm	Yuyuan Cao†	Using Engagement and Progress Metrics to Predict Team Performance through Communication Analysis
Wang, Lei	Talk #7041 presented 7/25 @ 11:40am	William Henry Stevens† Anh Nhu‡	Explainable Machine Learning for Predicting Atmospheric Blocking
Wang, Lei	Talk #7099 presented 7/25 @ 4:00pm	Owen T Odney† William Andrew Messman*	Using Data-Driven Equation Discovery Algorithms to Show a Nonlinear Schrodinger Equation Description of Atmospheric Blocking
Wang, Nien-hwa L	Poster #1438 presented 7/25 @ 12:00-1:00pm	Victor Alexander Dossin†	Selective Leaching of Rare Earth Element Compounds using Organic Acid
Wang, Xiaojin	Poster #1243 presented 7/25 @ 10:30-11:30am	Samantha Lares†	Three novel transcription factors in RAV2, C2H2, and HSF identified to play a key response on tomato during chilling stress
Wang, Xilong	Poster #1645 presented 7/25 @ 1:30-2:30pm	Mallory A Luse†	Designing Methods for Generating PVC- coated Magnetic Beads for High- throughput Microbiome Propagation
Wang, Yu	Poster #1660 presented 7/25 @ 1:30-2:30pm	Ilene Trach† Case T Vandevelde†	Cob Structural Testing for Automated Earth Construction
Wang, Yu	Poster #1661 presented 7/25 @ 1:30-2:30pm	Case T Vandevelde† Ilene Trach†	3D printing earth and structural testing of the samples
Ware, Jason	Talk #9018 presented 7/25-8/01 virtually	Shamari Garrett†	Analyzing Neighborhood Property Conditions in South Lafayette Neighborhood
Warsinger, David	Poster #1015 presented 7/25 @ 9:00-10:00am	Joyce Hu†	Hydrophobic Carbonized Wood Membranes: A Suitable Alternative for Membrane Distillation
Warsinger, David	Poster #1054 presented 7/25 @ 9:00-10:00am	Lily Avery Waterman†	Fabrication of Thermally Insulative Membranes for Dehumidification
Warsinger, David	Poster #1477 presented 7/25 @ 12:00-1:00pm	Christopher Ray†	Efficient and Sustainable Water Desalination Technology- Batch Reverse Osmosis Systems
Warsinger, David	Poster #1630 presented 7/25 @ 1:30-2:30pm	Zhichen Guan†	Investigation of ionocaloric refrigeration cycle: Thermodynamic model analysis and proof of concept

Mentor Name	Presentation	Students	Title
Warsinger, David	Poster #1673 presented	Clark Lay†	ENERGY ANALYSIS OF THE DEDICATED
	7/25 @ 1:30-2:30pm	Songhao Wu‡	OUTDOOR AIR CONDITIONING SYSTEM
			COUPLED WITH A DUAL MEMBRANE
			MODULE HUMIDITY PUMP.
Warsinger, David	Talk #7008 presented	Fredrick G Mungai†	Predictive Modeling and Experimental
	7/25 @ 9:20am		Observation of a Small-Scale Two-Phase
			Loop Thermosyphon
Warsinger, David	Talk #7096 presented	Kazim Hussain Jafri†	Investigation of Capture Efficiency in
	7/25 @ 3:00pm		Acoustically Enhanced Filtration Systems
Wat, Jacob Hnatusko	Talk #7017 presented	Tristen M West†	Complete Characterization of Isotope-
	7/25 @ 10:20am		enriched Proteins to Improve Vibrational
			Spectroscopy Simulations
Watson, Ben G	Poster #1254 presented	Shaye Ross†	In vitro Structural Characterization of the
	7/25 @ 10:30-11:30am		Secreted Brucella protein VceC (VirB
			coregulated effector C) reveals Diverse
			Multimeric States
Weake, Vikki Marie	Poster #1218 presented	Sara Bethany Victoria Haber†	Investigating AD-induced Gnmt
	7/25 @ 10:30-11:30am		upregulation in Drosophila clock cells
Weake, Vikki Marie	Poster #1413 presented	Madolyn Marie Jarrett†	Investigating AHCY Interacting Partners in
	7/25 @ 12:00-1:00pm	,	Drosophila S2 Cells.
Webb, Kevin J	Poster #1035 presented	Tyler Merrill†	Membrane-Less Protein Condensates
•	7/25 @ 9:00-10:00am	1	
Webb, Kevin J	Poster #1268 presented	Carolyn Sun†	Simulation of Membrane Deflection
•	7/25 @ 10:30-11:30am	'	Response to Temporally Impulsed Optical
	, -		Pressure
Wei, Tiwei	Poster #1675 presented	lan Quan†	Direct Single Phase Jet Impingement
,	7/25 @ 1:30-2:30pm		Design for Electronics Cooling
Weibel, Justin	Talk #7008 presented	Fredrick G Mungai†	Predictive Modeling and Experimental
	7/25 @ 9:20am	Treamen e manga	Observation of a Small-Scale Two-Phase
	, , , , , , , , , , , , , , , , , , , ,		Loop Thermosyphon
Wells, Ellen M	Poster #1404 presented	Bethany Faber†	Environmental Contamination and Birth
,	7/25 @ 12:00-1:00pm		Defects in Iraq
Welp, Lisa	Talk #7025 presented	Bethany Rita Kettleborough†	Analyzing moisture sources in the
110.6, 2.00	7/25 @ 10:20am	Valentina Saenz*	Andean Western Cordillera using water
	1,20 € 20.20		stable isotopes in precipitation during
			the 2023-2024 El Niño event
Welp, Lisa	Talk #7100 presented	Valentina Saenz†	Rainwater Stable Isotope
,	7/25 @ 4:20pm	Bethany Rita Kettleborough*	Characterization: A First Step Towards
	, , , ,	,	Better Understanding Large-Scale
			Atmospheric Moisture Transport Over
			South America During a Strong El Niño
Wheeler, Isaac Stonewall	Poster #1442 presented	Chi-En Huang†	Comparative Analysis of Methods for
,	7/25 @ 12:00-1:00pm	3	Measuring Mass Transfer Resistance (Rp)
	1,20 € 22.00 2.00 μ		from Temperature in Lyophilized
			Formulations
Whelton, Andrew	Poster #1674 presented	Marcelo Marcos†	An Investigation into the Hydraulics of a
,	7/25 @ 1:30-2:30pm	Payten Marley Whitfield‡	Wildfire Damage to Water Distribution
	1,20 € 2000 2000	Josh Michael Youngblood‡	Systems and Finished Water Storage
			Tank Vent Filtration Potential
Whelton, Andrew	Poster #1676 presented	Payten Marley Whitfield†	Investigating Smoke Composition and
	7/25 @ 1:30-2:30pm	Marcelo Marcos‡	Dispersion from Wildfire Events and Air
	7,25 € 2.50 2.50 \$	Josh Michael Youngblood‡	Filter Implementation Potential on Water
			Storage Tanks
Widhalm, Joshua R	Poster #1248 presented	Esperanza Zambrano†	Investigating the contribution of
widilaliii, Josiida K	7/25 @ 10:30-11:30am	Esperanza zambiano	proteotoxicity to juglone's mechanism of
	1,25 @ 10.50 11.50alli		action
Wildridge Androw James	Talk #7091 presented	Jack Patrick Rodgers†	Bumblebee: A self-supervised
Wildridge, Andrew James	7/25 @ 3:20pm	Jack Fattick Rougets!	transformer model to learn top quark
	7/23 @ 3.20pill		
			decay at the Large Hadron Collider

Mentor Name	Presentation	Students	Title
Wilhelm, Roland Conrad	Poster #1645 presented 7/25 @ 1:30-2:30pm	Mallory A Luse†	Designing Methods for Generating PVC- coated Magnetic Beads for High- throughput Microbiome Propagation
Wilker, Jonathan J	Poster #1030 presented 7/25 @ 9:00-10:00am	Uyen Linh Ly†	Development of Water-Resistant Adhesives by Adding Proteins to a Bio- Based Epoxy System
Wilkes, Rebecca P	Poster #1056 presented 7/25 @ 9:00-10:00am	Rubyleane Linton† Scott A Gentry* Amy R Witman* Gabriela Gambirazio* Farren E Osborn*	Investigating suspected mosquitos for the presence of Cache Valley Virus in Indiana
Wise DiVincenzo, Jenna L	Poster #1449 presented 7/25 @ 12:00-1:00pm	Craig Liu†	Designing Fractional Permissions for a Gradual Verifier
Wise DiVincenzo, Jenna L	Poster #1631 presented 7/25 @ 1:30-2:30pm	Priyam Gupta†	Increasing the Expressibility of a Gradual Verifier
Wise DiVincenzo, Jenna L	Talk #7010 presented 7/25 @ 9:00am	Marilyn Rego†	Al for Software Verification
Wissmann, Ethan P	Poster #1013 presented 7/25 @ 9:00-10:00am	Marzuk Hasan†	Purdue RDE Thrust Calibration System
Wolf, Patricia Marie	Poster #1250 presented 7/25 @ 10:30-11:30am	Sarah Hong†	Screening Human Microbial Communities for Genotoxic Hydrogen Sulfide Production
Won, You-Yeon	Poster #1033 presented 7/25 @ 9:00-10:00am	Joseph Mayer†	The Effect of Statistical Sequence Control on PLGA Degradation in Langmuir Monolayers
Woo, Jungha	Talk #9000 presented 7/25-8/01 virtually	Nihar Kodkani† Selina Lin‡	Molecular Chemistry Gateway: Developing Open OnDemand Applications for Purdue's Anvil Cluster
Woo, Jungha	Talk #9001 presented 7/25-8/01 virtually	Selina Lin† Nihar Kodkani‡	Facilitating Research through Developing Application Gateways on Anvil
Wu, Feng	Poster #1432 presented 7/25 @ 12:00-1:00pm	Pablo Cambra Valcarcel†	Performance Assessment of a Novel Wall-Embedded Micro Heat Pump for Radiant Heating in Buildings
Wu, Joy	Poster #1611 presented 7/25 @ 1:30-2:30pm	Alex James Alonzo† Jennifer Caraballo‡	Measurement of rare phosphoinositide lipids in Ras mutant cell membranes
Wu, Xinyu	Poster #1050 presented 7/25 @ 9:00-10:00am	Drake William Strait†	Characterization and immunotherapeutic targeting of the tumor microenvironment
Wu, Yi	Poster #1627 presented 7/25 @ 1:30-2:30pm	Samuel Duprey†	Benchmark Dataset for Fixing Software Vulnerabilities
Xie, Chong	Poster #1239 presented 7/25 @ 10:30-11:30am	Anasofia Carrillo†	Molecular genetic studies of candidate developmental regulators in two model species: Ceratopteris richardii and Arabidopsis thaliana
Xu, Xianfan	Poster #1260 presented 7/25 @ 10:30-11:30am	Jack Rearden Ferlazzo†	Nanoscale 3D Printing using Two-Photon Lithography for Biomedical and Electronic Applications
Xu, Xianfan	Poster #1635 presented 7/25 @ 1:30-2:30pm	Junwoo Jang†	Nanoscale Heat Transfer in Semiconductor Thin Films
Xu, Xiaolin	Talk #7098 presented 7/25 @ 3:40pm	Taeha Jeong†	Simulation-based Single Cargo Drone Stabilization Using Reinforcement Learning
Yang, Beinan	Poster #1215 presented 7/25 @ 10:30-11:30am	Hillary English†	Characterizing sulfotransferase 2B1a and determining its effect in drug delivery
Yang, Danzhou	Poster #1253 presented 7/25 @ 10:30-11:30am	Nicholas Paredes†	Evaluating software for G-quadruplex prediction
Yang, Hyeondong	Talk #7072 presented 7/25 @ 2:00pm	Kara Rochelle McCrindle†	In-vitro Assessment of Patient-Specific Cerebral Aneurysm Models for Hemodynamic Analysis using Particle Image Velocimetry and 4D Flow MRI

Mentor Name	Presentation	Students	Title
Yang, Xi	Poster #1239 presented	Anasofia Carrillo†	Molecular genetic studies of candidate
	7/25 @ 10:30-11:30am		developmental regulators in two model
			species: Ceratopteris richardii and
			Arabidopsis thaliana
Yang, Yang	Poster #1064 presented	Christian A Durbin†	Deficits in nucleus accumbens activity are
	7/25 @ 9:00-10:00am		associated with social behavior deficits in
	7723 @ 3.00 10.000111		Scn2a-deficient mice
Vang Vang	Poster #1637 presented	Hina Leilani Kadono†	Phenotypic characterization of an SCN2A
Yang, Yang	•	Hilla Lelialli Kauolio	
	7/25 @ 1:30-2:30pm		variant found in a child with autism using
			hiPSC-derived cortical organoids
Yang, Yang	Poster #1663 presented	Akila Abeyaratna†	Investigating Early-Onset
	7/25 @ 1:30-2:30pm		Neurodegeneration in Patients with
			Hereditary, Sensory, and Autonomic
			Neuropathy Type 1E (HSAN1E) Using 3D
			Cortical Organoids
Yang, Yun-Fang	Poster #1000 presented	Lina Milena Gomez Morales†	Analysis of charge transportation
	7/25 @ 9:00-10:00am		behavior
Yao, Yao	Talk #7091 presented	Jack Patrick Rodgers†	Bumblebee: A self-supervised
,	7/25 @ 3:20pm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	transformer model to learn top quark
	7,25 C 5.25p		decay at the Large Hadron Collider
Yeo, Yoon	Poster #1076 presented	Lev Titov†	Systemic delivery of Polymyxin B by iron-
160, 10011	7/25 @ 9:00-10:00am	LEV TILOV	
	7/25 @ 9:00-10:00am		tannic Acid-albumin nanocomplex for
	<u> </u>		treatment of endotoxemia.
Yogi, Ketankumar Jayantkuma	Poster #1675 presented	lan Quan†	Direct Single Phase Jet Impingement
	7/25 @ 1:30-2:30pm		Design for Electronics Cooling
Yoon, Gyeong Mee	Poster #1242 presented	Molly Kubal†	Differential Roles of ACS Enzyme
	7/25 @ 10:30-11:30am		Isoforms in Ethylene-Mediated Abiotic
			Stress Responses in Arabidopsis thaliana
Yoshida, Ken	Poster #1616 presented	Nicholas Herschel Burris†	Two Channel Low Frequency Alternating
	7/25 @ 1:30-2:30pm		Currents to Achieve Nerve Conduction
			Block
Youngblood, Jeffrey P	Poster #1447 presented	Manila Kunwar†	Characterization and Improvement of
, , , , , , ,	7/25 @ 12:00-1:00pm	Ruey-Bin Tsai‡	Vegetable Oils as Quenchants for Heat
	1, 20 € 22.00 2.00 μ	Junyeong Ahn‡	Treatment of Metals
Youngblood, Jeffrey P	Poster #1610 presented	Junyeong Ahn†	Characterization of Vegetable-Based Oils
roungblood, Jenney F	7/25 @ 1:30-2:30pm	Manila Kunwar‡	_
	7/25 @ 1.50-2.50piii		as Sustainable Quench Oil Replacements
Variable ad laffer D	Destan HACAE same and ad	Ruey-Bin Tsai‡	and Practicality Assessments
Youngblood, Jeffrey P	Poster #1645 presented	Mallory A Luse†	Designing Methods for Generating PVC-
	7/25 @ 1:30-2:30pm		coated Magnetic Beads for High-
		<u> </u>	throughput Microbiome Propagation
Youngblood, Jeffrey P	Talk #7067 presented	Ruey-Bin Tsai†	Sustainable Quench Oil Replacements for
	7/25 @ 1:20pm	Junyeong Ahn‡	Austempering Salt Quenchants
		Manila Kunwar‡	
Yousuf, Mujeeb	Talk #7022 presented	Junhan Shen†	ARMS: Reconfigurable Microelectronic
-	7/25 @ 10:20am		System for Autonomous Movement and
			Collaboration
Yu, Denny	Poster #1617 presented	Yuyuan Cao†	Using Engagement and Progress Metrics
	7/25 @ 1:30-2:30pm	12,000	to Predict Team Performance through
	.,25 @ 1.50 2.50piii		Communication Analysis
Yu, Denny	Talk #7045 procented	Dan Ha Lot	
	Talk #7045 presented	Dan Ha Le†	Assessing and Improving Robotic
	7/25 @ 12:00pm		Surgeon's Intraoperative Non-Technical
			Skills: A Mixed-Methods Study
Yuh, Madeleine Shuhn Tsua	Poster #1024 presented	Ilhoon Lee†	Online Updating of Cognitive State
Yun, Madeleine Shunn Tsua			
Yun, Madeleine Shunn Tsua	7/25 @ 9:00-10:00am		Models in Human-Automation Interaction

Mentor Name	Presentation	Students Control Product Front	Title
Yun, Yeon Ji	Poster #1059 presented 7/25 @ 9:00-10:00am	Connor Bradley Frey† Ryan Thomas Jordan* Edward Falcon Navarro* Caasi Nketiah Boakye* Minsoo Oh*	User-Friendly Interface for Real-Time Musical Accompaniment
		Tim Nadolsky* Ping-Hung Nick Ko* Brian Mingyang Qi* Anthony Wang*	
Yun, Yeon Ji	Poster #1060 presented 7/25 @ 9:00-10:00am	Edward Falcon Navarro† Ryan Thomas Jordan* Tim Nadolsky* Ping-Hung Nick Ko* Caasi Nketiah Boakye* Minsoo Oh* Brian Mingyang Qi* Anthony Wang* Connor Bradley Frey*	Real-Time Voice Commands for Musical Accompaniment
Yun, Yeon Ji	Poster #1636 presented 7/25 @ 1:30-2:30pm	William P Jiang† Shrinand Perumal* Shivam Hemal Trivedi*	Enhancing Cello Performance through Real-Time Posture Evaluation
Yun, Yeon Ji	Poster #1662 presented 7/25 @ 1:30-2:30pm	Richard Joseph Von Tersch† Samantha Sudhoff† Vinay Sai Meda‡	Robot Cello
Yun, Yeon Ji	Talk #7000 presented 7/25 @ 9:00am	Ryan Thomas Jordan† Tim Nadolsky* Edward Falcon Navarro* Ping-Hung Nick Ko* Caasi Nketiah Boakye* Minsoo Oh* Brian Mingyang Qi* Anthony Wang*	Real-Time Musical Accompaniment for Non-Improvised Music
Zea Rojas, Maria Paula	Poster #1407 presented	Connor Bradley Frey* Jamie Kim Bryan†	Unraveling the roles of DEAD-box
	7/25 @ 12:00-1:00pm	•	helicases in eukaryotic gene regulation
Zhang, Cankui	Poster #1246 presented 7/25 @ 10:30-11:30am	Diallo Thomas† Jing Huang* Ana Maria Orjuela Rodriguez*	Enhancing Plant Transformation through Agrobacterium tumefaciens
Zhang, GuangJun	Poster #1659 presented 7/25 @ 1:30-2:30pm	Maitreyee Panini Telang†	Chemogenetic Tools in Zebrafish: Visualizing and Manipulating Bioelectric Activity
Zhang, GuangJun	Talk #7110 presented 7/25 @ 4:20pm	Abigail Martin†	Application of genetically encoded voltage indicators to zebrafish tissuespecific bioelectricity
Zhang, Manni	Poster #1618 presented 7/25 @ 1:30-2:30pm	Belen Noemi Carrasco Grandes†	Harnessing Real-Time Sensor Data: A Novel Approach to Quality Control in Manufacturing
Zhang, Weiwei	Poster #1435 presented 7/25 @ 12:00-1:00pm	Rem Quintin Villanueva David†	Revealing the Role of Reactive Oxygen Species in Actin Cytoskeleton Remodeling During Plant Immunity
Zhang, Xiaoqi	Talk #7052 presented 7/25 @ 12:40pm	Damilola Showunmi† Wei Jiang‡	Tool for CryoEM 2D Average Image Stitching Assisting Initial Referance Building of Helical Filaments
Zhou, Shan	Poster #1209 presented 7/25 @ 10:30-11:30am	Emma Mast†	Analysis of language used in electric vehicle charging policies
Zhou, Shijun	Talk #7003 presented 7/25 @ 9:00am	Andrew Lewis Hadikusumo†	Foldable FWV Fabrication and Control Analysis
Zhou, Yun	Poster #1239 presented 7/25 @ 10:30-11:30am	Anasofia Carrillo†	Molecular genetic studies of candidate developmental regulators in two model species: Ceratopteris richardii and Arabidopsis thaliana

Summer 2024 Undergraduate Research Symposium: List by Mentor

Mentor Name	Presentation	Students	Title
Zhu, Feng	Poster #1044 presented 7/25 @ 9:00-10:00am	Luisa Sanchez†	Enhancing a Machine Learning Model for Lithofacies Prediction Using Well Log Data From The Illinois Basin
Zhu, Jie	Talk #7038 presented 7/25 @ 11:40am	Charles Spencer Bowles† Vidisha Singhal‡	Simulation of Modified Coherent Ising Machines for Combinatorial Optimization
Zhuang, Yuxin	Talk #7084 presented 7/25 @ 3:00pm	Abigail Hyejin Lee†	Investigating the effects of ciclopirox and its derivatives on urothelial and renal cell carcinomas
Ziliak, Meredith Christine	Poster #1032 presented 7/25 @ 9:00-10:00am	Jax Patrick Marrone† Andres Navarro‡ Sahil Vijay Desai‡ Emily Le Bell‡	Fast Auditory Brainstem Responses as a Method of Hidden Hearing Loss Detection
Ziliak, Meredith Christine	Talk #7054 presented 7/25 @ 12:20pm	Sahil Vijay Desai† Jax Patrick Marrone‡ Andres Navarro‡ Emily Le Bell‡	Feature Extraction for Classification of Small Firearms-Like Noise and Blast Exposure Hearing Loss in Rat Models
Zimmerman, Michael Paul	Talk #7071 presented 7/25 @ 2:40pm	Caroline Powell†	Impaired theta oscillations during working memory as a potential biomarker for autism spectrum disorders
Ziviani, Davide	Poster #1432 presented 7/25 @ 12:00-1:00pm	Pablo Cambra Valcarcel†	Performance Assessment of a Novel Wall-Embedded Micro Heat Pump for Radiant Heating in Buildings
Ziviani, Davide	Poster #1630 presented 7/25 @ 1:30-2:30pm	Zhichen Guan†	Investigation of ionocaloric refrigeration cycle: Thermodynamic model analysis and proof of concept
Zou, Ben	Talk #7021 presented 7/25 @ 10:00am	Shivi Pandey†	A Study on the Temporal Robustness of Machine Learning for Poverty Mapping and Comparison of the Transfer Learning and Random Forest Approaches