



## Summer 2025 Undergraduate Research Symposium: List of Mentors and non-Student

## Acknowledgments

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

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

Name	Presentation	Students	Title
Abdelraheem, Ahmed	1079	Jack Thomas Willard†	Design of Electrically Small Dielectric Resonator Antennas
Abrams, Sarah Janelle	1002	Maria Paula Garcia Molina†	MAGIC-Derived Genotyping and QTL Mapping in Vigna unguiculata: Enhancing Quality Traits and Tannin Characterization
Abu Ishgair, Eman Abdul-Muhd	1232	William David Boulton† Damian Munoz‡	Securing the Software Supply Chain With Trusted Build Systems
Abu Ishgair, Eman Abdul-Muhd	7012	Damian Munoz† William David Boulton‡	Ensuring Trusted Builds Through Transparent Origins: A Tool for Visualizing Provenance and Causal Relationships in OSS Software Supply Chains
Adebakin, Yusuf Kolawole	1022	Muhammad Zohaib Ali† Mirza Orunav Shahper‡ Qinjia Xu*	FLORA: Field and Landscape Observation via Robotic Automation
Adeoye Olenloa, Temitope Folasade	1488	Taylor Marie Hollis† Armando Del Tejo Armendariz† Saw Shin Htwe‡ Bethy Natalia Avella‡ Ngoc Phan Khanh Nguyen‡ Jacob Peng‡	Creating Safe, Supportive Places For Youth Learning After School
Adeoye Olenloa, Temitope Folasade	1491	Hannah Krouse†	Development and Implementation of a Codebook in an Afterschool Research Team
Adeoye Olenloa, Temitope Folasade	9041	Stephania Petit Homme† Olamide Gbemisola† Joeclee Dora Gbasakollie† A'Mya Antionette Murray Coleman‡ Shaylen Deven Patel‡ Yasmin Vargas‡	Heart Healthy Team
Adewumi, Adeayo Daniel	7077	Ha Nguyen† Shreyans Jain‡ Ekagrah Kumar‡ Nihar Dharmesh Shah*	Implementation and Evaluation of Large Language Model-Based Intelligent Tutoring Systems in Biological Engineering Curricula
Agarwal, Shubhanshu	1462	Paul Spitz†	Solution-processed CISe/CIGSe thin film solar cells by a low-carbon synthesis route
Aggarwal, Varun	1023	Juan Sebastian Ardila Lopez†	Bioinspired Origami Aerial Robotics
Aggarwal, Varun	1027	Sogo Bakare† Virginia Lucille Hawkins* Steven Li* William McMahon*	Semiconductor Education as the Seed for Nigeria's Tech and Economic Growth
Aggarwal, Varun	1038	Lilyana Gundayao†	Life cycle assessment of integrated biochemical and physicochemical processes aimed at recovering critical metals from municipal solid waste in landfills
Aggarwal, Varun	1047	Henry J Lee†	Exploring Interdependencies Between Self- Confidence, Workload, and Learning Stage For Intelligent Tutoring Systems
Aggarwal, Varun	1051	Nicole Martinez†	Insights into Antibody Binding Sites Through Structural Analysis of HCV E1E2
Aggarwal, Varun	1053	Grace Guan Man Meyer† Emiko A Sano*	Time Series Analysis of SAR Backscatter

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Aggarwal, Varun	1056	Brijesh B Patel†	Modelling Deformable Cells in Inertial Flow
		Alexander G Kelley‡	Using Spherical Harmonics
Aggarwal, Varun	1058	Kiersten Mackenzie Penquite†	Coupled Risks of Lead Exposure and Genetic
			Variations in Alzheimer's Disease
Aggarwal, Varun	1075	Minh Binh Tran†	Evaluating the ability of large language models
	4007	1 150	to generate verifiable specifications in VeriFast
Aggarwal, Varun	1087	Joseph F Norwood†	Evolution of P-AgBot: Autonomous Ground
Aggarwal, Varun	1088	Martin Vassilev‡  Martin Vassilev†	Sensor Deployment and Reading P-AgBot: Development of an Unmanned
Aggarwar, varuri	1000	Joseph F Norwood‡	Ground Vehicle for IoT4Ag Soil Moisture Sensor
		Joseph i Norwood+	Reading and Deployment
Aggarwal, Varun	1089	Daming Yang†	Design and Integration of a Robotic Trailer for
		Jeet Brahmbhatt*	Autonomous Agricultural Robots
Aggarwal, Varun	1235	Aryan Dayal†	Particle-Reinforced Polymers for 3D Printing in
		Nicholas Joseph Ostendorf‡	Space
Aggarwal, Varun	1236	Peter Edvardsson†	AI for Musicians - Performance Audio Evaluator
		Shamita Yedlapalli†	
		Kayla Y. Xu <sup>†</sup>	
		Shih-Yao Sun†	
		Ji Bing Ni‡	
		Ropan Datta‡	
Aggarwal, Varun	1250	Steven Li†	Place-based Semiconductor Education and Its
		William McMahon*	Impact on K-12 STEM Pipeline Development in
		Virginia Lucille Hawkins*	Emerging Hubs
		Sogo Bakare*	
A week Manua	4254	Andrew Robert Ryan*	Manufacturia Filos Painface d Comments by
Aggarwal, Varun	1254	Valentina Marin†	Manufacturing Fiber Reinforced Composites by
			Vacuum-Assisted Resin Transfer Moulding Infusion and Characterization of Elium 191
			XO/SA Resin Using DSC
Aggarwal, Varun	1269	Hayden Schneider†	Cyclodextrin Derivative Synthesis for Use in
Aggarwar, varan	1203	Trayderi Schneider	Formation of Layer-By-Layer Elastin Like
			Polypeptide Nucleic Acid Self Assembling
			Nanoparticles.
Aggarwal, Varun	1278	Sota Yanagisawa†	Direct servo-driven actuation strategy for an
		Abdullah Mouaffaq S Albaghdadi‡	avian-inspired flapping-wing aerial vehicle
Aggarwal, Varun	1432	Sijie Huang†	Design and Development of a Multimodal
			Underwater Robot
Aggarwal, Varun	1444	Hannah Jordan Margulis†	Evaluating Tactile Perception in Freely Moving
			Mice Through Paw-Based Texture
A week Manua	4.450	A - va - Da - a d t	Discrimination
Aggarwal, Varun	1450	Aarav Pasad†	A Systematic View of Extant Material
Aggarwal, Varun	1453	Juan Andres Puyo Montealegre†	Sustainability Epidemic Spike Prediction Using Networked
Aggarwar, varum	1433	Juan Andres Fuyo Montealegre	Compartmental Model Dynamics and
			LASSO/Ridge Regression Estimation
Aggarwal, Varun	1469	Ziang Wang†	Computer Vision for Real-Time Cellist Postural
,		Shrinand Perumal‡	Correction
		Luke Jaehyeon Choi‡	
		Michael X Zhang‡	
		Benjamin Joseph Taylor*	
		Jackson Patrick Shields*	
		Ekaterina Tszyao*	
		Atharv Kharbanda*	
		Bisti Sunil Potdar*	
		Sivamurugan Velmurugan*	
		Michael Alexander Ikriannikov*	
		Joseph Issac Getachew*	
	7046	Mukund Sanjay Rao*	1
Aggarwal, Varun	7016	Lorenzo Demaria†	Airborne Launch and Recovery System: Vision-
			Based Hook Localization for Autonomous Aerial
			Recovery of an Underwater Vehicle

Name	Presentation	Students	Title
Aggarwal, Varun	7028	Sarah Elizabeth Grev†	Ultrasound-based assessment of murine cardiac remodeling in chronic hypertension during pregnancy
Aggarwal, Varun	7061	Emiko A Sano† Grace Guan Man Meyer*	Accurate Georeferencing of UAV Synthetic Aperture Radar Images Using Digital Elevation Models
Aggarwal, Varun	7077	Ha Nguyen† Shreyans Jain‡ Ekagrah Kumar‡ Nihar Dharmesh Shah*	Implementation and Evaluation of Large Language Model-Based Intelligent Tutoring Systems in Biological Engineering Curricula
Agrawal, Adarsh	7070	Thendral Kamal† Kevin Patrick Corrigan† Haoyu Zhang†	PREVIEW: Purdue Rocket Experimental Video in Educational Work
Aguirre, Angela	1083	Jeremy W Libby†	Simple Alkane Hydrogenolysis as a Model for Polyethylene Hydrogenolysis on Ruthenium
Ahmad, Irfan	1082	Benedict G Grill†	Solvent Effects on Rh/C Catalyzed Hydrogenation of Aromatic Compounds
Ahn, Sanghyun	7052	Juan Pablo Chitiva Arteaga†	Scaling up of the synthesis of zeolite catalysts to obtain desired bulk and atomic-scale properties
Aime, Mary	1205	Angela Maria Ossorio Trochez†	Exploring Fungal Diversity: Isolation and Characterization of Endophytic Fungal Isolates from Cacao Trees (Theobroma cacao) in Colombia
Alaeian, Hadiseh	1041	Julio Herreros Garcia† Ruben Canora Alvarez*	Waveguide-Coupled Rydberg Excitons in Cuprous Oxide for Integrated Quantum Photonics
Alaeian, Hadiseh	7046	Ruben Canora Alvarez† Atish Bhungalia*	Engineering Nonlinear Optical Activation Functions for High Speed, Low-Power Light- Based Neural Networks
Alam, Afaque	7005	Mo Chen†	Investigating Combustion Instability Mechanisms in Turbulent Jet Ignition and Evaluating Mitigation Strategies Using High- Speed Optical Diagnostics
Aliaga, Daniel G	1265	Juan Esteban Rios Gonzalez†	A Quantitative Comparison of Motion Blur Correction Methods: MCFI, Post-Processing, and a Preemptive Human-Perceptual Approach
Allen, Brandon Chase Myke	7096	Ava J Watson†	Exploring Political and Socio-economic Dimensions of Public Perception on Electrified Transportation Technology in Greater Lafayette, Indiana
Allen, Brandon Chase Myke	9008	Angel Antayhua-Reynoso†	EV adoption and infrastructure under high wildfire risk in the wildland-urban interface (WUI) and during wildfire evacuation
Allen, Brandon Chase Myke	9009	Sofiia Goncharuk†	Dynamic PCM-Based System for Passive Thermal Management in High-Powered EV Wireless Charging Stations
Allen, Brandon Chase Myke	9010	Aaron Paddy†	Simulating Dynamic Wireless Power Transfer in Urban Environments Using CARLA
Allen, Brandon Chase Myke	9011	Seyedarshia Shamszadeh†	Machine Learning-Based Prediction of Power and Efficiency in Dynamic Wireless Power Transfer for Electric Vehicles
Anandan, Sudharshan	1007	Lily Dawn Farmer†	Self-pumping Membranes
Anandan, Sudharshan	1043	Tyler James Hughes†	Acoustic Enhancement of Porous Filters in HVAC Systems for Submicron Bioaerosol Removal
Anasori, Babak	1251	Madison E Lisenko†	Colloidal Stability of Mo-containing Double Transition Metal MXenes via UV Vis-NIR Spectroscopy
Anasori, Babak	7006	Pratyush Chettri† Aditi Akella*	Optimization of Nb4C3Tx MXene Synthesis for Improved Yield and Flake Quality

Ashish, Ashish 9001 David Burns† Automated Question Generation for Technical Support in High-Performance Computing Ashish, Ashish 9002 Christina Joslin† Transforming Technical Support with Artificial David Burns‡ Intelligence: Structured Question Generation for Technical Support in High-Performance Computing Transforming Technical Support with Artificial David Burns‡ Intelligence: Structured Question Generation from Support Tickets Intelligence: Structured Question Generation of Inductively Coupled Plasma Newsort Stark Intelligence: Structured Georeferencing of UAV Synthetic Grace Guan Man Meyer* Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer* Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer* Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer* Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer* Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer* Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer* Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer* Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer* Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer* Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer* Intelligence: Structural Accurate Georeferencing of Carcurate Grace Guan Man Meyer* In	Name	Presentation	Students	Title
Aponte, Yaileen Eysmarie  Aponte, Yaileen Eysmarie  1476  NaLaya Lee†  Immunolocalization of a Rhoptry Protein, SnR0P21, in the Merozoite and Schizont Stage of Sarcocystis neurona are application. A stage of Sarcocystis neurona in the protein of Sarcocystis neuronal in the Sarcocystis neuronal in the protein of Sarcocystis neuronal in the protein of Sarcocystis neuronal in the Sarcocystis neurona	Anton, Nicholas Eric	1427	Hermes Heng-yu Fu†	Real-time System for Nurses Situation
Aponte, Yaileen Eysmarie				Awareness and Team Communication
SRROP21, in the Mercapite and Schizont Stage of Sarcocysta neurona				
Ardekani, Arezoo 1230 Ameya Vikram Bhargava† Bacterial dentification using Hyperspectral Inaging Related to Environmental Monitoring Field Inaging	Aponte, Yaileen Eysmarie	1476	NaLaya Lee <sup>†</sup>	
Arrieta Diaz, Andres   1023   Juan Sebastian Ardiia Lopez†   Bioinspired Origami Aerial Monitoring Fields   Arrieta Diaz, Andres   1029   Mariana Peres Duarte†   3D Printed Dome-Patterned Arrays; Modelling Fabrication and Design   Ashish, Ashish   9001   David Burns†   Automated Question Generation for Technical Christian Joslin‡   Support in High-Performance Computing   Ashish, Ashish   9002   Christian Joslin‡   Support in High-Performance Computing   Ashish, Ashish   9002   Christian Joslin‡   Support in High-Performance Computing   Ashish, Ashish   9002   Christian Joslin‡   Transformant Technical Support with Artificial Intelligence: Structured Question Generation from Support Ticket   Activated Question Generation of Models   Activated Georeferencing of UAV Synthetic Grace Guan Man Meyer†   Time Series Analysis of SAR Backscatter   Emiko A Sano†   Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer*   Activated Georeferencing of UAV Synthetic Aperture Radar Images Using Digital Elevation Models   Activated Georeferencing of UAV Synthetic Grace Guan Man Meyer*   Accurate Georeferencing of UAV Synthetic Aperture Radar Images Using Digital Elevation Models   David Kichul Kim†   Characterization and Operation of Inductively Coupled Plasma Neturalizer for Electric Propulsion Applications   Aperture Radar Images Using Digital Elevation   Hannah Yeonsoo Parkt   Evaluation Applications   Propulsion Applications   Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer*   Characterization of Hydrogel Matrix for Evaluation Applications   Propulsion Applications   Propulsion Applications   Propulsion Applications   Propulsion Applications				
Imaging Related to Environmental Monitoring Fields	Ardokani Arozoo	1220	Amoya Vikram Phargayat	
Arrieta Díaz, Andres  1023  Juan Sebastian Ardila Lopez†  Biolispired Origami Aerial Robotics  Arrieta Díaz, Andres  1059  Mariana Peres Duarte†  30 Printed Dome-Patterned Arrays: Modelling Fabrication and Design  Ashish, Ashish  9001  David Burns†  Automated Question Generation for Technical Support in High-Performance Computing  Ashish, Ashish  9002  Christina Joslin†  David Burns†  Automated Question Generation for Technical Support in High-Performance Computing  Ashish, Ashish  9002  Christina Joslin†  Transforming Technical Support with Hardificial Intelligence: Structured Question Generation from Support Tickets  Ashish, Ashish  Athar, Sheeraz  1432  Sijie Huang†  Design and Development of a Multimodal Underwater Robot  Azimi, Fatemeh  1053  Grace Guan Man Meyer†  Emiko A Sano*  Time Sessa Analysis of SAR Backscatter  Emiko A Sano*  Accurate Georeferencing of UAV Synthetic  Aperture Radar Images Using Digital Elevation Models  Babusis, Nicholas Vytautas  1266  David Rubin†  Characterization and Operation of Inductively Coupled Plasma Neutralizer for Electric Propulsion Applications  Bae, euiwon  1248  David Kichul Kim†  Characterization Alevaria Reveral Evaluating Schistosoma Egg Migration  Hannah Yeonsoo Park‡  Fulluating Schistosoma Egg Migration  Bae, euiwon  1446  Laksh Nagpal†  Light Scattering Simulation using RCW Grating  Baghbanbashi, Mojhdeh  7057  Luke DeLion†  Bahr, David  1285  Rachel Christine Quisil Ordiales†  Diego Jimenez Rivera†  Jan Strachan†  Bahr, David  Jung RAQUS to Simulate Nanoindentation on Bismuth-Modified SAC305 Solder Alloys  Balachandran Sajitha, Nithin  7006  Pratyush Chettri†  Optimization of NbdC37x Kixene Synthesis for neurotoxicity and potential link to neurodegeneration.  Measuring and comparing signal feature variation under degrading Temperature versus radiation conditions  Bandy, Autumn Liberty  1422  Zhiyuan Chen†  Colin J Keeter†  Structural analysis of EEV in complex with a patient-derived potently neutralizing intact antibody EEV-373	Ardekarii, Arezoo	1230	Ameya vikiam bilargava	
Arrieta Diaz, Andres  1059  Mariana Peres Duarte†  30 Printed Dome-Patterned Arrays: Modelling Fabrication and Design Ashish, Ashish 9001  David Burns† Automated Question Generation for Technical Support in High-Performance Computing Christina Joslin† David Burns‡  Christina Joslin† Transforming Technical Support with High-Performance Computing Ashish, Ashish 9002  Christina Joslin† David Burns‡ Transforming Technical Support with Artificial Intelligence: Structured Question Generation from Support Tickets Athar, Sheeraz  1432  Sijie Huang† Design and Development of a Multimodal Underwater Robot Azimi, Fatemeh 1053  Grace Guan Man Meyer† Time Series Analysis of SAR Backscatter Emiko A Sano* Azimi, Fatemeh 7061  Emiko A Sano* Accurate Georeferencing of UAV Synthetic Aperture Radar Images Using Digital Elevation Models Babusis, Nicholas Vytautas  1266  David Rubin† Characterization and Operation of Inductively Coupled Plasma Neutralizer for Electric Propulsion Applications Bae, euiwon  1248  David Kichul Kim† Characterization and Operation of Inductively Coupled Plasma Neutralizer for Electric Propulsion Applications Bae, euiwon  1446  Laksh Nagpa† Light Scattering Simulation using RCW Grating Baghbanbashi, Mojhdeh 7057  Luke DeLion† Lingroving small molecule drug oral dissolution kinetics via drug-polymer salts Bahr, David  7078  Ian Strachan† Bahr, David  Toma Salphan Salphan Salphan Solder Alloys Balachandran Sajltha, Nithin 7006  Pratyush Chettri† Aditi Akella* Improved Yield and Flake Quality Ingroved Yield and Flake Quali				
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Ashish, Ashish   9001   David Burns†   Support in High-Performance Computing		1059	Mariana Peres Duarte†	3D Printed Dome-Patterned Arrays: Modelling,
Christina Joslin† Support in High-Performance Computing				Fabrication and Design
Ashish, Ashish   9002   Christina Joslin† David Burns‡   Transforming Technical Support with Artificial Intelligence: Structured Question Generation from Support Tickets	Ashish, Ashish	9001	David Burns†	Automated Question Generation for Technical
David Burns‡   Intelligence: Structured Question Generation from Support Tickets				
Athar, Sheeraz 1432 Sijie Huang† Design and Development of a Multimodal Underwater Robot 1053 Grace Guan Man Meyer† Time Series Analysis of SAR Backscatter Emiko A Sano* Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer* Aperture Radar Images Using Digital Elevation Models Characterization and Operation of Inductively Coupled Plasma Neutralizer for Electric Propulsion Applications 1248 David Kichul Kim† Characterization and Operation of Inductively Coupled Plasma Neutralizer for Electric Propulsion Applications 1248 David Kichul Kim† Characterization of Hydrogel Matrix for Evaluating Schistosoma Egg Migration 1248 Laksh Nagpal† Light Scattering Simulation using RCW Grating 1285 Rachel Christine Quisil Ordiales† Improving small molecule drug oral dissolution kinetics via drug-polymer salts 1285 Rachel Christine Quisil Ordiales† Diego Jimenez Rivera† Defense 1an Strachan† Using ABAQUS to Simulate Nanoindentation on Bismuth-Modified SAC305 Solder Alloys 1an Strachan† Optimization of Nb4C3Tx MXene Synthesis for Chandran 1000 Ximena Cortes Vergara† Investigating metabolic alterations in PFOS-exposed rat: Implications for neurotoxicity and potential link to neurodegeneration.  Baldoni, Priyanka 1000 Ximena Cortes Vergara† Measuring and comparing signal feature variation under degrading Temperature Versus radiation conditions  Bandy, Autumn Liberty 1422 Zhiyuan Chen† Cardiomyocyte Differentiation of hiPSCs and 8 Chromosome Mutation Bandyopadhyay, Abhishek 1036 Roberto Angel Garza† Structural analysis of EEEV in complex with a patient-derived potently neutralizing intact antibody EEEV-373	Ashish, Ashish	9002		
Atlar, Sheeraz  1432  Sijie Huang†  Design and Development of a Multimodal Underwater Robot  Azimi, Fatemeh  1053  Grace Guan Man Meyer†  Emiko A Sano*  Azimi, Fatemeh  7061  Emiko A Sano*  Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer*  Aperture Radar Images Using Digital Elevation Models  Babusis, Nicholas Vytautas  1266  David Rubin†  Characterization and Operation of Inductively Coupled Plasma Neutralizer for Electric Propulsion Applications  Bae, euiwon  1248  David Kichul Kim†  Hannah Yeonsoo Park‡  Evaluating Schistosoma Egg Migration  Bae, euiwon  1446  Laksh Nagpal†  Light Scattering Simulation using RCW Grating  Baghbanbashi, Mojhdeh  7057  Luke DeLion†  Improving small molecule drug oral dissolutior kinetics via drug-polymer salts  Bahr, David  1285  Rachel Christine Quisil Ordiales†  Diego Jimmene Rivera†  Ian Strachan†  Using ABAQUS to Simulate Nanoindentation o Bismuth-Modified SAC305 Solder Alloys  Balachandran Sajitha, Nithin  7078  Ian Strachan†  Using ABAQUS to Simulate Nanoindentation o Bismuth-Modified SAC305 Solder Alloys  Optimization of NAC3TX Mixene Synthesis for Aditi Akella*  Inproved Yield and Flake Quality  Baloni, Priyanka  1000  Ximena Cortes Vergara†  Nessuring and comparing signal feature versus radiation conditions  Colin J Keeter†  Measuring and comparing signal feature versus radiation conditions  Bandy, Autumn Liberty  1422  Zhiyuan Chen†  Cardiomyocyte Differentiation of hiPSCs and 8 Chromosome Mutation  Bandyopadhyay, Abhishek  1036  Roberto Angel Garza†  Structural analysis of EEEV in complex with a patient-derived potently neutralizing intact antibiody EEEV-373			David Burns∓	
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Azimi, Fatemeh  1053  Grace Guan Man Meyer† Emiko A Sano*  Azimi, Fatemeh  7061  Emiko A Sano† Grace Guan Man Meyer*  Emiko A Sano† Grace Guan Man Meyer*  Accurate Georeferencing of UAV Synthetic Aperture Radar Images Using Digital Elevation Models  Babusis, Nicholas Vytautas  1266  David Rubin†  Characterization and Operation of Inductively Coupled Plasma Neutralizer for Electric Propulsion Applications  Bae, euiwon  1248  David Kichul Kim† Hannah Yeonsoo Park‡ Hannah Yeonsoo Park‡ Evaluating Schistosoma Egg Migration  Bae, euiwon  1446  Laksh Nagpal† Light Scattering Simulation using RCW Grating Improving small molecule drug oral dissolutior kinetics via drug-polymer salts  Bahr, David  1285  Rachel Christine Quisil Ordiales† Diego Jimenez Rivera† Ian Strachan† Bahr, David  7078  Ian Strachan† Using ABAQUS to Simulate Nanoindentation Defense  Bahr, David  7078  Ian Strachan† Using ABAQUS to Simulate Nanoindentation Oblism Aditi Akella* Improved Yield and Flake Quality  Baloni, Priyanka  1000  Ximena Cortes Vergara† Investigating metabolic alterations in PFOS-exposed rat: Implications for neurotoxicity and potential link to neurodegeneration.  Measuring and comparing signal feature variation under degrading Temperature versus radiation conditions  Bandy, Autumn Liberty  1422  Zhiyuan Chen† Structural analysis of EEEV in complex with a patient-derived potently neutralizing intact antibody EEEV-373	Athar, Sheeraz	1432	Silie Hualig	
Emiko A Sano*   Emiko A Sano*   Emiko A Sano*   Accurate Georeferencing of UAV Synthetic Grace Guan Man Meyer*   Aperture Radar Images Using Digital Elevation Models	Azimi, Fatemeh	1053	Grace Guan Man Meyer†	
Babusis, Nicholas Vytautas   1266   David Rubin†   Characterization and Operation of Inductively Coupled Plasma Neutralizer for Electric Propulsion Applications	,			,
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Babusis, Nicholas Vytautas			Grace Guan Man Meyer*	
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Hannah Yeonsoo Park‡   Evaluating Schistosoma Egg Migration	Rae euiwon	12/18	David Kichul Kimt	
Bae, euiwon         1446         Laksh Nagpal†         Light Scattering Simulation using RCW Grating           Baghbanbashi, Mojhdeh         7057         Luke DeLion†         Improving small molecule drug oral dissolution kinetics via drug-polymer salts           Bahr, David         1285         Rachel Christine Quisil Ordiales† Diego Jimenez Rivera† lan Strachan†         High Temperature Solders for Aerospace and Defense           Bahr, David         7078         Ian Strachan†         Using ABAQUS to Simulate Nanoindentation on Bismuth-Modified SAC305 Solder Alloys           Balachandran Sajitha, Nithin Chandran         7006         Pratyush Chettri†         Optimization of Nb4C3Tx MXene Synthesis for Improved Yield and Flake Quality           Baloni, Priyanka         1000         Ximena Cortes Vergara†         Investigating metabolic alterations in PFOS-exposed rat: Implications for neurotoxicity and potential link to neurodegeneration.           Baltazar, Rolando         9021         Colin J Keeter†         Measuring and comparing signal feature variation under degrading Temperature versus radiation conditions           Bandy, Autumn Liberty         1422         Zhiyuan Chen†         Cardiomyocyte Differentiation of hiPSCs and 8 Chromosome Mutation           Bandyopadhyay, Abhishek         1036         Roberto Angel Garza†         Structural analysis of EEEV in complex with a patient-derived potently neutralizing intact antibody EEEV-373	bae, ediwon	1240		
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Buxbaum, Clifton	9016	Alessandra Nicole Contreras† Trinity M Aguilar†	Radiation Shielding Materials for Modular Power Systems
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Campbell, Teagan Louise	1277	Olivia B Williams†	Characterizing Proteoform-Drug Interactions by Reactivity-Driven Top-down Mass Spectrometry
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Castillo Jimenez, Andres Catalino	1063	Rafael Riesco Risco†	Carbon composite support structure with integrated thermal management for time of flight detector for ePIC- EIC
Castillo Jimenez, Andres Catalino	1066	Jeronimo Rodriguez†	Semantic Segmentation and Reconstruction for LoD3 Buildings from Point Cloud Data
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Castillo Jimenez, Andres Catalino	1471	Lucille Mattingly Whyman†	Morphological Effects of Clozapine on Astrocytes
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Castillo Jimenez, Andres Catalino	7007	Twisha Tirumani Shivashankar†	Tuning Matrix Degradability using Hydrogel Composites to Modulate Angiogenesis
Castillo Jimenez, Andres Catalino	7013	Kovid Tandon†	Topology-Hiding Computation Tolerating Fail- Stop Adversaries
Castillo Jimenez, Andres Catalino	7034	Purav Matlia†	Scalable and Uncertainty-Aware Operator Learning via Quantum Deep Ensembles
Castro, Jake Anthony	7038	Laura Fernanda Martinez Galindo†	Using 4D Ultrasound to Predict Heart Tissue Scarring After a Heart Attack
Cervini, Chiara	7096	Ava J Watson†	Exploring Political and Socio-economic Dimensions of Public Perception on Electrified Transportation Technology in Greater Lafayette, Indiana
Cervini, Chiara	9008	Angel Antayhua-Reynoso†	EV adoption and infrastructure under high wildfire risk in the wildland-urban interface (WUI) and during wildfire evacuation

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Cervini, Chiara	9009	Sofiia Goncharuk†	Dynamic PCM-Based System for Passive Thermal Management in High-Powered EV Wireless Charging Stations
Cervini, Chiara	9011	Seyedarshia Shamszadeh†	Machine Learning-Based Prediction of Power and Efficiency in Dynamic Wireless Power Transfer for Electric Vehicles
Chan, Deva	1062	Amrita Rani Raparti†	Measuring Systemic Inflammatory Effects of Synovial Joint Injury
Chan, Deva	1498	Christian A Roach†	Effect of loss of hyaluronan synthases on glycosaminoglycan production in bone marrow derived cells
Chan, Deva	7027	Anna M Kiley†	Changes in the Gut Microbial Community of Mice After Long-Term Antibiotic Treatment: Effects of Sex, Treatment, and Treatment Duration
Chang, Soowon	1207	Sebastian Valencia Zapata†	Integrating Modularization and Generative Design for Holistic Design Optimization
Chang, Wei-Kai	1071	Pranav Sanghi†	Visualizing Loss Landscapes to Understand Instability in Reinforcement Learning for Language Model Alignment
Chang, Woei-chyi	1470	Nathan Daniel Weston†	Construction Worker Trajectory Modeling and Prediction for Workzone Safety
Chaturvedi, Ojas	1481	Franklin Shang†	Quantifying Musical Complexity for Automatic Music Transcription: A Correlation Analysis of Human Perception and AMT Performance
Chatzidakis, Stylianos	1090	Marlen Jones†	The Purdue Subcritical Pile
Chatzidakis, Stylianos	7079	Ayah Rahman†	Assessment of Thermal and Radiation Effects of MOSFETs using Early-Stage Remote Instrumentation
Chawla, Nikhilesh	7058	Hamdan Ashfaq†	Imaging and Machine Learning of Defects in Semiconductors
Chen, Ching-Chien	1285	Rachel Christine Quisil Ordiales† Diego Jimenez Rivera† Ian Strachan†	High Temperature Solders for Aerospace and Defense
Chen, Yingjie	7011	Christina Zhang†	iDiF Undergraduate Summer Research Program: Drone Under-Canopy Forest Survey
Chen, Yong P	1414	Madeleine Huang Spark†	Graphene and hBN Encapsulation of 2D Fe(TeSe) for Superconducting Proximity Studies
Chen, Yuzhao	1430	Yichen Hu†	CADialogs: Empowering Precise Control for 3D Generation and Simplified Designing Processes
Chen, Yuzhao	1435	Haoyu Ji†	Interactive Handwriting-based Tutoring System Utilizing Large Language Models
Chen, Zhengbin	1448	Khanh Nam Nguyen†	Human Body Communication IC & System Design
Cheng, Lixia	9046	Ethan Andrew Zhang†	TPU Soft Actuator-Enabled Adaptive Grasping for Aerial Robots
Cheng, Yiyang	1019	Jasmine McKinnie†	F3 Nanobody Purification
Chew, Ismar Leonel	1076	Ryan J Turnbull† Varunavi Kaveri Raghuraman*	Exploration of Photopolymers in Plastic Bonded Explosives
Chew, Ismar Leonel	1263	Varunavi Kaveri Raghuraman† Ryan J Turnbull*	Microstructural Control of HTPB-Based Energetic Materials
Chilakamarri, Padmasri	1295	Akshat Nallani†	A Comparative Evaluation of Deep Learning Models for Dementia Screening via Natural Language Processing
Chiu, Jui-Cheng	7011	Christina Zhang†	iDiF Undergraduate Summer Research Program: Drone Under-Canopy Forest Survey
Chmielewski, Jean A	1031	Wyatt Tristan Carter†	Modifying Peptide Charge to Enhance Encapsulation in Self-Assembling Nanotubes
Chobe, Gaurav Somnath	1054	Ngoc Gia Khang Nguyen†	Influence of Base Plate Thickness and Anchor Spacing on Combined Concrete and Pullout Failure of Bonded Anchors Under Tension

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Chobe, Gaurav Somnath	1234	Charles R Curione†	Investigation of Performance of Anchorages in Narrow Foundations Under Predominant Moment Loading
Choi, Jhinkyu	7086	Adriana Maria Velasquez Medina†	Synthesis and Characterization of the TbCr6Ge6 Kagome Magnet
Choi, Yooseung	7081	Jamie Chanadol Henson† Adina Ioana Margineantu‡ Clifford Walter Gamble*	Autonomous Quadcopter Battery Swapping for Extended UAV Endurance
Christov, Ivan C	1203	Juan Andres Gil Duque†	Fluid-structure interactions in non-axisymmetric perivascular spaces
Christov, Ivan C	1416	Ben N Aaron† Mike Xiao‡	Failure modes of thin film peeling under peridynamics and cohesive zone models
Christov, Ivan C	7059	Mike Xiao† Ben N Aaron‡	Peridynamics Thin Film Peeling
Cifuentes, Laura Pulido	1306	Gaurangi Yadav†	Traction Force Microscopy to Study Mechanosensing of Neuronal Growth Cones
Clark, Alexandra Blair	1012	Jordan Sexton†	Simulating Wave Propagation in Fractured Media
Clark, Alexandra Blair	1049	Brenda Sofia Lizarazo Olivera†	Mineral Precipitation and Surface Roughness in Fractured amphibolite Rocks
Cloft, Sara Elizabeth	1483	Neely JoAnne Brown† Anna Rachelle Hardesty† Emily Rose Mawhorter† Gabriella Anna Tysse Levine‡ Olivia Katherine Sullivan‡	Battle of the Scanners: Comparing QCT to the Volscan Profiler 300
Cloft, Sara Elizabeth	1503	Gabriella Anna Tysse Levine† Olivia Katherine Sullivan† Anna Rachelle Hardesty‡ Neely JoAnne Brown‡ Emily Rose Mawhorter‡	How Diet Changes in Older Hens Affect the Vitelline Membrane Strength
Cofer, Anthony G	1268	Mary Jane Sayler†	Assessing Reconstitution of Lyophilized Formulations in Cake and Bead Forms using LED Light Transmission
Coffey, Madeline Christina	7094	sarah nelson†	CLCN1 missense mutation predicted to be responsible for congenital myotonia in a domestic shorthair cat
Colbert, Ethan Michael	1200	Ana Sofia Calle Munoz† Anna G. Klupshas*	Machine Learning Optimization & Sensor Characterization for Advanced Particle Detection Systems
Collicott, Steven H	7070	Thendral Kamal† Kevin Patrick Corrigan† Haoyu Zhang†	PREVIEW: Purdue Rocket Experimental Video in Educational Work
Conde Oliveira Prado, Marco Aurelio	1407	Aarnav Tushar Sabale†	Fourier-Feature MLP Toolkit for GPU- Accelerated Cardiac-MRI 4DCMR Strain Analysis
Conde Oliveira Prado, Marco Aurelio	1485	Yunyi Gao†	Spectral Characterization of Cardiac Tissue from Raw Ultrasound RF Signals Using Frequency-Domain Analysis
Cooks, Robert Graham	7054	Alana Kathryn El Thomas†	Hand in Hand: Kinetics of Chiral Cluster Formation in Serine Octamers
Cordeiro Moreira, Davi	9037	Parth Kapila†	Sales Forecasting Automation: the case of Girl Scouts of Central Indiana
Corman, Brianna N	1248	David Kichul Kim† Hannah Yeonsoo Park‡	Characterization of Hydrogel Matrix for Evaluating Schistosoma Egg Migration
Cottingham, Kendall	1210	Louis Michael Delaby†	Investigating the role of Rm62 RNA helicase in R-loop homeostasis, gene regulation, and neurodegeneration in aging.
Cox, Joshua Michael	1243	Amelia C Jaffe†	Characterizing the Composition Shift of R454C with and without Lubricants using Gas Chromatography

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Crawford, Melba M	1053	Grace Guan Man Meyer†	Time Series Analysis of SAR Backscatter
		Emiko A Sano*	
Crawford, Melba M	7061	Emiko A Sano†	Accurate Georeferencing of UAV Synthetic
		Grace Guan Man Meyer*	Aperture Radar Images Using Digital Elevation
	1.00		Models
Cruz Santos, Deise	1403	Amber Grace Hitchins†	Methodology for Environmental Toxicology:
			Assessing Feeding and Rearing Strategies in
			Largemouth Bass (Micropterus nigricans) Larvae
Czerwonky, David Matthew	1090	Marlen Jones†	The Purdue Subcritical Pile
Czerwonky, David Matthew	1091	Andrew LeClair†	Low-Level Legacies and Simulation-Based
,,			Validity
Czerwonky, David Matthew	1092	Ammar M Mukadam†	Computational Approaches to Thermal
			Characterization of Materials in IC Packaging
Czerwonky, David Matthew	1093	Ethan Xinghan Tan†	Plasma-Activated Polyimide and Copper
			Electroplating for Hybrid Bonding in 3D
	1000		Heterogeneous Integration
Czerwonky, David Matthew	1280	Kaden Bowers†	XRF-Based Identification of Buried Lead Service
		Michael K Lau†	Lines: A Non-Destructive Alternative to Excavation
Czerwonky, David Matthew	1281	Ziara Cato†	Extending Generalized Space-Charge-Limited
ezer worky, Barra maceren	1201	Ziara caco	Current to Multi-Region Systems
Czerwonky, David Matthew	1282	Evelyn Colon†	Designing a Compiler for a Heterogeneous
		,	Digital Compute-In-Memory Transformer
			Accelerator
Czerwonky, David Matthew	1283	Ritveek Govardhanam†	OpenMC-Based Analysis of Neutron Radiation
			Effects on Microcontrollers in lightweight NTP
	100.		systems
Czerwonky, David Matthew	1284	Michael K Lau† Kaden Bowers†	XRF-Based Identification of Buried Lead Service
		Raden Bowers	Lines: A Non-Destructive Alternative to Excavation
Czerwonky, David Matthew	1285	Rachel Christine Quisil Ordiales†	High Temperature Solders for Aerospace and
Czerwonky, Bavia Materiew	1203	Diego Jimenez Rivera†	Defense
		Ian Strachan†	
Czerwonky, David Matthew	1286	Evan E Tuckley†	Testing the capabilities of two-step absorption
			nanolithography for meta-lens structures
Czerwonky, David Matthew	1287	Jianing Xue†	Hybrid metamaterial designs with tunable
			physical properties via laser patterning
Czerwonky, David Matthew	1424	Amelia G Eicher-Miller†	Mechanical analysis of the impact of bacterial
			growth on adherence to flat and nanopatterned surfaces
Czerwonky, David Matthew	1429	Bryn R Goldstein†	Cellulose Cement Composite (C3) for Carbon
ezer worky, Barra maceren	1123	Mahira Mim*	Negative Construction
Czerwonky, David Matthew	1454	Zheng Qing†	Biphoton generations & Quantum optics
Czerwonky, David Matthew	1460	Yilin Shao†	Improving Intelligent Tutoring System
			Responsivity to Humans through Haptic
			Feedback
Czerwonky, David Matthew	1464	Ethan Scott Streckfuss†	Predicting St Joseph River Plume Behavior
			Using Satellite-Derived Observations and
Czerwonky, David Matthew	1468	Allen Joseph Vidallon†	Hydro-Meteorological Measurements  Building Model to Evaluate Multi-functional
Czer woriky, Daviu iviattilew	1400	Allen Joseph Vidalion	HVAC Platform with Modular Thermal Storage
Czerwonky, David Matthew	7045	Stanley Tzarkwai So†	A Successive-Approximation Analog-to-Digital
,, = = :::	- 1-	.,	Converter for Data Acquisition in a System-on-
			Chip
Czerwonky, David Matthew	7064	Grace Ann Kowis†	Assessing Lead Levels in Human Bone with
			Portable XRF and Benchtop XRF Technology to
			Explore Links to Cognitive Function

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Czerwonky, David Matthew	7065	Diego Jimenez Rivera†	Room Temperature Aging Effects on Microstructural Solidification Behavior of Sn-Bi Low-Temperature and Sn-Ag-Cu High- Temperature Solder Alloys
Czerwonky, David Matthew	7077	Ha Nguyen† Shreyans Jain‡ Ekagrah Kumar‡ Nihar Dharmesh Shah*	Implementation and Evaluation of Large Language Model-Based Intelligent Tutoring Systems in Biological Engineering Curricula
Czerwonky, David Matthew	7078	lan Strachan†	Using ABAQUS to Simulate Nanoindentation on Bismuth-Modified SAC305 Solder Alloys
Czerwonky, David Matthew	7079	Ayah Rahman†	Assessment of Thermal and Radiation Effects of MOSFETs using Early-Stage Remote Instrumentation
Czerwonky, David Matthew	7080	Dylan Swanson†	Design of a single-ended CMOS inverter ring oscillator DCO with 16-stage switched capacitor coarse tuning and 6-bit C-2C ladder fine tuning for a RISC-V system-on-chip application
Dagher, Sarah	1016	Nikki Chun†	Role of DDX5 Protein Domains in Unfolding the MYC Promoter G-quadruplex
Dai, Ran	1253	Adina Ioana Margineantu† Jamie Chanadol Henson‡	Design of Reconfigurable Antenna Using Origami Patterns
Dai, Ran	7081	Jamie Chanadol Henson† Adina Ioana Margineantu‡ Clifford Walter Gamble*	Autonomous Quadcopter Battery Swapping for Extended UAV Endurance
Dangoudoubiyam, Sriveny	1476	NaLaya Lee†	Immunolocalization of a Rhoptry Protein, SnROP21, in the Merozoite and Schizont Stages of Sarcocystis neurona
Das, Arghya Ranjan	1200	Ana Sofia Calle Munoz† Anna G. Klupshas*	Machine Learning Optimization & Sensor Characterization for Advanced Particle Detection Systems
Das, Chittaranjan	7084	Matthew Reitmajer†	Proximity-Driven Capture of LnaB–Ubiquitin Complex Reveals AMPylation Mechanism
Dasaro, Sophia R	7057	Luke DeLion†	Improving small molecule drug oral dissolution kinetics via drug-polymer salts
Dawood, Osama Ragab Ahmed	1413	Madeline Anna Rehwinkel†	Prospects for Quantum Entanglement at the High Luminosity Large Hadron Collider (HL-LHC)
de Oliveira, Leticia Fernanda	1001	Miguel Angel Cuervo Espinosa†	Impact of Porcine Reproductive and Respiratory Syndrome on reproductive performance of sows born on different outbreak phases
de Paula Macedo, Bianca	1224	Madelyn Clair Watson†	Experimental Testing of Computationally Predicted Enzymatic Pathways Towards Small Molecules
Deb, Aarya	1087	Joseph F Norwood† Martin Vassilev‡	Evolution of P-AgBot: Autonomous Ground Sensor Deployment and Reading
Deb, Aarya	1088	Martin Vassilev† Joseph F Norwood‡	P-AgBot: Development of an Unmanned Ground Vehicle for IoT4Ag Soil Moisture Sensor Reading and Deployment
Deb, Aarya	1089	Daming Yang† Jeet Brahmbhatt*	Design and Integration of a Robotic Trailer for Autonomous Agricultural Robots
Deering, Amanda J	1218	Niah L Patel†	Sanitization of Seeds -A Mechanism for Produce Growers to Reduce the Risk of Foodborne Pathogen Contamination of Fresh Produce
Del'Angel, Jorge Martinez	1048	Oliver Yichi Li†	Investigating Microbes and Their Connection to Metals in Municipal Solid Waste Landfill Leachate with Simulated Bioreactors
Delaney, Colleen	9044	Tayden Aris White†	An Efficient Algorithm for Fusing Permutation Defects in Multi-layer Anyon Models

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Desai, Rushik	7091	Junyeong Ahn†	Discovering and Designing Novel Perovskite
Dhawan, Deepika	1478	Brayden Spurlock†	Photovoltaic Materials via Machine Learning Investigating IL-17A-Driven Tertiary Lymphoid
і Бітаматі, Бееріка	1470	Бі ауйен зриноскі	Structure Cytokine Expression in Canine
			Bladder Cancer Cells
Dick, Jeffrey Edward	1097	Yashvi Choudhary†	Impact of Silver Ion Leakage from
		Sadie A Poirier‡	Electrochemical Sensors on Cell Heath: A Triple
	1000		Negative Breast Cancer Study
Dick, Jeffrey Edward	1290	Daniel Michael Carrel†	10,000,000x Increase in Electrochemiluminescence Lifetime through
			Parasitic Pathway Suppression
Dick, Jeffrey Edward	1304	Amber K Wang†	No Glovebox? No Problem. Accessing Hypoxic
			Electroanalysis Using Dense Gases in a Fish
			Tank
Dickinson, Danielle	1276	Madeline G Taylor†	Characterizing explosion asymmetry in the
			Cassiopeia A supernova remnant using JWST
Dikshit, Abhijnan	1278	Sota Yanagisawa†	light echo observations  Direct servo-driven actuation strategy for an
Diksilit, Abilijilali	1276	Abdullah Mouaffaq S Albaghdadi‡	avian-inspired flapping-wing aerial vehicle
Dikshit, Abhijnan	1417	Abdullah Mouaffaq S Albaghdadi†	Aerodynamic Analysis and Wind Tunnel Testing
, , , ,		Sota Yanagisawa‡	of an Avian-Inspired Flapping-Wing Aerial
			Vehicle
Ding, Chang	1463	Morgan Stephens†	Examining Myh9a Function and Localization in
			Zebrafish Wound Closure Utilizing PhiC31-
Ding Lingko	1448	Khanh Nam Nauvant	CRISPR-Cas9 Knock-In Line Methods
Ding, Lingke	1448	Khanh Nam Nguyen†	Human Body Communication IC & System Design
Ding, Xin	9032	Peter Joseph Bradshaw†	Supercritical Carbon Dioxide Thermal Cycle
		Ella Renee Moss‡	Design and Fabrication
		Emma Loretta Hansen‡	
		Arnav Basu‡	
Dad Carrie	4075	Adiba Alamgir Mrittika‡	Fresh and a selection of leaves to a second at
Dod, Sanya	1075	Minh Binh Tran†	Evaluating the ability of large language models to generate verifiable specifications in VeriFast
Dong, Qiwei	7003	Aidan Hirsch†	Classification of Electrochemical Impedance
			Spectroscopy Components in
			Ultramicroelectrode Arrays
Dong, Ziyu	1080	Alice Y Zhou†	Investigating Tissue-Specific Voltage Patterns
			During Zebrafish Embryonic Development
Dong, Ziyu	1225	Kashyap Akkinapally†	Using Calcium Imaging Uncovering Bioelectric Cues in Fin Patterning:
Dollg, Ziyu	1223	Rasilyap Akkillapally	Imaging the Bioelectric Signaling in Somite
			using Tg(ubi-ASAP1) Fish
Doszpoly, Agnes	1024	Paula Daniela Avila Martinez†	Calcium-Dependent Regulation of Tiam1 and
			CaMKIIy During Mammalian Egg Activation
Douglas, Kerrie	9020	Pierce Yungjoon Johnson†	DIGITALIZATION OF STARS FOR WIDESPREAD
Dravid, Rajasi Somesh	1014	Anya Jolee Piarowski†	USE Identification of HIF1a interacting proteins
Drown, Bryon Shane	1277	Olivia B Williams†	Characterizing Proteoform-Drug Interactions by
2. 3mily bryon shalle	12//	Siria D Williams	Reactivity-Driven Top-down Mass
			Spectrometry
Drown, Bryon Shane	9039	Maria Margineantu†	Targeted Analysis of Lysosomal Membrane
			Proteins LAMTOR1 and LAMTOR2 by
Du Changura	7046	Duken Courses About t	Immunoprecipitation
Du, Shengwang	7046	Ruben Canora Alvarez† Atish Bhungalia*	Engineering Nonlinear Optical Activation Functions for High Speed, Low-Power Light-
		Austroniungana	Based Neural Networks
Du, Shuting	1282	Evelyn Colon†	Designing a Compiler for a Heterogeneous
		,	Digital Compute-In-Memory Transformer
			Accelerator

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Duan, Runlin	1430	Yichen Hu†	CADialogs: Empowering Precise Control for 3D
			Generation and Simplified Designing Processes
Duan, Runlin	1435	Haoyu Ji†	Interactive Handwriting-based Tutoring System Utilizing Large Language Models
Dudareva, Natalia	1211	Anna Alden Fisher†	Harnessing the MVA pathway and IPP
,			transporter to modulate MVA/MEP cross-talk
			and terpenoid flux in Solanum lycopersicum
Dunlop, Steven R	7022	Eduard Alexis Ruiz Raba†	Impact of Disruption in Semiconductor Supply
			Chain with a Focus on Electric Vehicles in the
			U.S.
Dunlop, Steven R	7023	Daniela Katherin Soriano Hernandez†	Forecasting U.S. Electricity Demand Using
			Supervised Machine Learning: A Multivariable Approach with Emphasis on Environmental
			Drivers and Electric Vehicles
Egan, Marisa Ann	1061	Daniela Ramirez Castellanos†	Hyaluronan Gels for Tissue Mimics
Ekenstedt, Kari J	7094	sarah nelson†	CLCN1 missense mutation predicted to be
Excristede, Karrs	7034	sarah heison	responsible for congenital myotonia in a
			domestic shorthair cat
Elkady, Mai	1474	Peter Zakariya†	Robust Message-Passing for Decentralized
			Machine Learning under Communication
			Constraints
Elliott, Daniel S	1042	Silas U Hokanson†	Optical measurements of quantum effects in
			gaseous cesium
Engelberth, Abigail	1402	Katherine Sophia Chiparus†	Unveiling Food Waste Patterns at Purdue
Ent. Kanadaa A	4025	Cabaiala Canaia Candanant	University
Erk, Kendra A	1035	Gabriela Garcia Cardenas†	Coated in slime: the physical properties of skin mucus across fish species
Erk, Kendra A	1067	Amelia Paige Ringor* Lina Paola Rodriguez†	Characterization of Superabsorbent Polymers
Lik, Kendia A	1007	Lina r aoia Nouriguez	for Internal Curing in Cementitious Materials
Erk, Kendra A	1466	Reece Avery Tippery†	Rheological Characterization of Fungal
,		, , , ,	Mycelium Gels for Soft Electronics Technology
Esquivel Puentes, Helber Antonio	9032	Peter Joseph Bradshaw†	Supercritical Carbon Dioxide Thermal Cycle
		Ella Renee Moss‡	Design and Fabrication
		Emma Loretta Hansen‡	
		Arnav Basu‡	
Fajardo Galvis, Yesid	9014	Adiba Alamgir Mrittika‡  Malhar Sushil Jadhav†	Foreging Robovier and Cocial Influence in
rajardo Galvis, Yesid	9014	iviainar Sushii Jaunav i	Foraging Behavior and Social Influence in Dynamic Traffic
Fan, Wen	1075	Minh Binh Tran†	Evaluating the ability of large language models
			to generate verifiable specifications in VeriFast
Farkas, Mate	7019	Ana Maria De La Torre Sanchez†	Optimizing ARU Deployment: Effects of
			Sampling Intensity and Spatial Arrangement on
			Wild Bird Biodiversity Detection Around Poultry Facilities
Fawley, Jacob Ryan	1103	Elysia Marlena Uggen†	Proximity Labeling to Identify Proteins that
Tawicy, Jacob Ryan	1103	Joshua Paul Kaluf*	Interact Transiently with the ATP-dependent
			Chromatin Remodeler PICKLE in Arabidopsis
			thaliana
Fei, Songlin	1009	Yuexin Jiang†	Building a Digital Library of 3D Point Cloud for
			Deep Learning-based Tree Species
			Identification
Fei, Songlin	7011	Christina Zhang†	iDiF Undergraduate Summer Research
Foijoo Garcia Miguel Alfonso	1240	Ana Maria Hernandez Lasso†	Program: Drone Under-Canopy Forest Survey
Feijoo Garcia, Miguel Alfonso	1240	Alia ivialia Herrialiuez Lassu	LLM as Channel to Understand Learning Challenges
Feltenstein, Isabella Grace	9039	Maria Margineantu†	Targeted Analysis of Lysosomal Membrane
. e.teristerii, isasena Grace		mana margineanta.	Proteins LAMTOR1 and LAMTOR2 by
			Immunoprecipitation
Ferguson, Robert Edwin	1457	Alexander Rizk†	Material Characterization of Lithium-Ion
			Batteries and Fire Suppression in Thermal
			Runaway Events

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Fernandes, Igor Alexandre	1069	Gisell Natalia Romero Delgado†	Effects of Heat Stress on Blood Pressure
			Regulation and Cardiac Baroreflex Function
Fields, Jeneen S	1002	Maria Paula Garcia Molina†	MAGIC-Derived Genotyping and QTL Mapping
			in Vigna unguiculata: Enhancing Quality Traits
Finnagan Patrick T	9000	Randy Alejo†	and Tannin Characterization  Design and Deployment of a A Kubernetes-
Finnegan, Patrick T	9000	Abigale Tucker‡	Based Data Warehouse for HPC analytics
Finnegan, Patrick T	9005	Abigale Tucker†	Building a Data Pipeline and Warehouse for
		Randy Alejo‡	Supercomputing Environments
Fordyce, Amanda Lynn	1490	Miho Kato†	The Role of Temporal Predictability in
			Sustained Attention
Franklin, Nicole Lin	7076	Pham Thanh Ngan Dinh†	Surface Tension Study of Fluorine-free
			Firefighting Foam based on the Mixture of
Fretz, Caleb Frederick	1443	Lana Malek†	Hydrocarbon and Silicone Surfactants  Development of a sustained-release respiratory
rietz, caleb riederick	1443	Lana Malek	naloxone formulation using Flash
			NanoPrecipitation
Fruchtman, Kent Nickolas	1250	Steven Li†	Place-based Semiconductor Education and Its
		William McMahon*	Impact on K-12 STEM Pipeline Development in
		Virginia Lucille Hawkins*	Emerging Hubs
		Sogo Bakare*	
Furza Margan Emily	1209	Andrew Robert Ryan*  Mark T Crooks†	Understanding the Ecology and Physiology of
Furze, Morgan Emily	1209	Mark I Crooks	'Ohi'a Lehua Trees in the Face of Rapid 'Ohi'a
			Death?
Furze, Morgan Emily	1410	Emmeline Rose Seest†	Understanding the Role of Sugars in the Timing
, ,			of Leaf Senescence in Urban Trees
Gabal, Esraa Abdelmonem	1000	Ximena Cortes Vergara†	Investigating metabolic alterations in PFOS-
			exposed rat: Implications for neurotoxicity and
			potential link to neurodegeneration.
Gabor, Caitlin	7071	Stiwar Albeiro Catano Cardeno†	Impacts of artificial light at night on growth and stress responses in American toads
Gall, Kylee	1033	Jabez Soongeui Shin‡ Anna Catherine Dressman†	Modeling Metabolic Dysfunction-Associated
dan, kyree	1033	Anna Catherine Dressman	Steatotic Liver Disease Using Liver Organoids
Gallaway, Glynn Ellen	1068	Kaley Roe†	Allometric scaling of macro-to-micro ratios of
		·	geometrical bone properties
Gallaway, Glynn Ellen	1247	Brian Arild Kelly†	Finite Element Method Characterization of
			Human Radius Bone Strength
Gao, Yuan	1004	Thomas Martinod Saldarriaga†	Construction of a Weak KAM Solution for the
Caraia Diaga Estaban	1042	Silas U Hokanson†	Overdamped Langevin Dynamics HJE Optical measurements of quantum effects in
Garcia, Diego Esteban	1042	Silds O HOKalisoff	gaseous cesium
Garcia Mendes de Araujo Santos,	1442	Han Li†	Video Analytics and Texture Analysis for
Isabela			Assessing Feed Mix Uniformity
Garje, Yash Ajay	1027	Sogo Bakare†	Semiconductor Education as the Seed for
		Virginia Lucille Hawkins*	Nigeria's Tech and Economic Growth
		Steven Li*	
Caria Vach Aine	1040	William McMahon*	At in the ation to the continue on both in 20.0
Garje, Yash Ajay	1040	Virginia Lucille Hawkins† Sogo Bakare*	Al in Ideation: Is it hurting or helping? A qualitative analysis of student discourse during
		William McMahon*	engagement with the engineering design
		Steven Li*	process
Garje, Yash Ajay	1052	William McMahon†	Analysis on the effectiveness of LLM's to assist
		Virginia Lucille Hawkins*	inexperienced programmers in the debugging
		Steven Li*	and generation of basic python scripts
		Sogo Bakare*	
Garje, Yash Ajay	1250	Steven Li†	Place-based Semiconductor Education and Its
		William McMahon*	Impact on K-12 STEM Pipeline Development in
		Virginia Lucille Hawkins* Sogo Bakare*	Emerging Hubs
		Andrew Robert Ryan*	
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Name	Presentation	Students	Title
Garner, Allen L	1032	Mihajlo-Joshua Foali Deganus†	Simulative Assessment of Electron Emission Mechanism Transitions in Planar and Non- Planar Nano-Diodes
Garner, Allen L	1091	Andrew LeClair†	Low-Level Legacies and Simulation-Based Validity
Garner, Allen L	1281	Ziara Cato†	Extending Generalized Space-Charge-Limited Current to Multi-Region Systems
Garner, Allen L	1459	Francisco Sebastiano† Nicodemus M O'Brian‡	Interactions of High Repetition Rate Subthreshold Nanosecond Pulses on Biological Cells
Ghajar-Rahimi, Elnaz	7028	Sarah Elizabeth Grev†	Ultrasound-based assessment of murine cardiac remodeling in chronic hypertension during pregnancy
Ghajar-Rahimi, Elnaz	7038	Laura Fernanda Martinez Galindo†	Using 4D Ultrasound to Predict Heart Tissue Scarring After a Heart Attack
Ghodsi, Zahra	1070	Diego Roux Hernandez†	Can We Rely on Error Thresholds? Practical Attacks on Proof of Learning.
Giorgadze, Irakli	1013	Grayson Welch†	Classifying Hamiltonians by time evolution of slater states
Goergen, Craig	1407	Aarnav Tushar Sabale†	Fourier-Feature MLP Toolkit for GPU- Accelerated Cardiac-MRI 4DCMR Strain Analysis
Goergen, Craig	1461	Wilhelm S Smith† Anna Julie Astrid Webb‡ Aasish Chowdary Karuturi‡ Bea Olivia Cabot‡	4D Echocardiographic Assessment of Regional Strain in Acute Doxorubicin Cardiotoxicity
Goergen, Craig	7024	Bea Olivia Cabot† Anna Julie Astrid Webb‡ Wilhelm S Smith‡ Aasish Chowdary Karuturi‡	Identifying Doxorubicin-Induced Cardiotoxicity Using 4D Echocardiography
Goergen, Craig	7028	Sarah Elizabeth Grev†	Ultrasound-based assessment of murine cardiac remodeling in chronic hypertension during pregnancy
Goergen, Craig	7038	Laura Fernanda Martinez Galindo†	Using 4D Ultrasound to Predict Heart Tissue Scarring After a Heart Attack
Goergen, Craig	7039	Aasish Chowdary Karuturi† Wilhelm S Smith‡ Bea Olivia Cabot‡ Anna Julie Astrid Webb‡	Dobutamine Stress Testing in 4D Strain Detection of Early Cardiotoxicity in a DOX- Treated Mouse Model
Goergen, Craig	7083	Anna Julie Astrid Webb† Bea Olivia Cabot‡ Aasish Chowdary Karuturi‡ Wilhelm S Smith‡	Sex-dependent differences in cardiac function and strain in doxorubicin-induced cardiomyopathy
Goergen, Craig	7092	Joshua Paik† Felix Dinklage‡ Ahhyun Lee‡	Improving Echocardiographic Aortic Aneurysm Assessment in Marfan Syndrome Patients
Gombedza, Farai Colin	1291	Seth Crisologo Gozo† Alexander Josef Shemen†	Epithelial Membrane Disruption Drives Vaping- Induced Lung Injury
Goodarzi, Nima	1210	Louis Michael Delaby†	Investigating the role of Rm62 RNA helicase in R-loop homeostasis, gene regulation, and neurodegeneration in aging.
Goodwin, Gabriel	7037	Agustin Lopez Zapata†	Ultra-Low-Frequency dynamic light scattering spectroscopy with a Fresnel biprism commonpath digital holography system
Goppert, James Michael	1289	Connor Bradley Frey†	Reinforcement Learning Environment for Finding Counter-UAV Surveillance Strategies
Goppert, James Michael	1440	yahor lechanka†	CogniPilot Autopilot Development
Goppert, James Michael	9029	Eric Nance Richardson†	Fixed Wing Model Plane Autopilot
Gorman, Thomas Eagan	9014	Malhar Sushil Jadhav†	Foraging Behavior and Social Influence in Dynamic Traffic

Name	Presentation	Students	Title
Gounder, Rajamani P	7035	Maxwell K Bartlett† David W Ball*	Influence of zeolite framework and diffusional constraints on carbon selectivity during methane dehydroaromatization
Gounder, Rajamani P	7048	David W Ball† Aakash Sanjay*	Evaluating Active Site Properties Governing the Hydrothermal Stability of Phosphorus Modified MFI Zeolites
Gounder, Rajamani P	7052	Juan Pablo Chitiva Arteaga†	Scaling up of the synthesis of zeolite catalysts to obtain desired bulk and atomic-scale properties
Gregor, Justin Bradley	1212	Carolyn Jia†	Investigating the role of Set3 and Set4 in azole resistance in Candida glabrata
Grier, Thomas Ray	1280	Kaden Bowers† Michael K Lau†	XRF-Based Identification of Buried Lead Service Lines: A Non-Destructive Alternative to Excavation
Grier, Thomas Ray	1284	Michael K Lau† Kaden Bowers†	XRF-Based Identification of Buried Lead Service Lines: A Non-Destructive Alternative to Excavation
Groll, Eckhard A	9032	Peter Joseph Bradshaw† Ella Renee Moss‡ Emma Loretta Hansen‡ Arnav Basu‡ Adiba Alamgir Mrittika‡	Supercritical Carbon Dioxide Thermal Cycle Design and Fabrication
Grossi Ferrarezzi, Cristiane	1028	Dewayne Eric Ballance†	Eaton and Palisades: Assessing Post-Wildfire Challenges that Plague the Community
Grossi Ferrarezzi, Cristiane	1078	Kaitlyn Marie Wayne†	Evaluating Post-Fire Environmental Testing Guidance for Standing Homes: Gaps, Risks, and Recommendations
Gu, Xingjian	7095	Oliver Thomas Johnson†	Creating a Xenografted Human Vascularized Chimeric Brain Model
Gude, Sushma	1262	Sanjana Prashanth†	Computational Validation of Localized and Concentrated Vaccine Delivery Eliciting Robust Antibody Responses
Gude, Veera Gnaneswar	1294	Nachiket Magesh†	Combined Microbial Fuel Cell–Hydroponic System for Renewable Energy Generation and Wastewater Treatment
Guerrero Suarez, Ramon Felipe	1204	Juan Camilo Ospina Villa†	Isotropic Fractional Hall State to Nematic transition at v=7/2 mediated by nuclear spin polarization
Guildenbecher, Daniel Robert	1299	Yash Ajay Shah†	Development of Particle-Jet-Based Calibrations for Diffuse Back-Illumination Extinction Imaging
Gulewicz, Demetrius	1468	Allen Joseph Vidallon†	Building Model to Evaluate Multi-functional HVAC Platform with Modular Thermal Storage
Guo, Dongkai	7095	Oliver Thomas Johnson†	Creating a Xenografted Human Vascularized Chimeric Brain Model
Guo, Hongcheng	1501	Hannah Nicole Tharrington†	Constraining potential helium sources in magnetite, with applications to helium-based geo- and thermochronology
Gupta, Vanshika	1097	Yashvi Choudhary† Sadie A Poirier‡	Impact of Silver Ion Leakage from Electrochemical Sensors on Cell Heath: A Triple Negative Breast Cancer Study
Gustafson, Sarah Margaret	7048	David W Ball† Aakash Sanjay*	Evaluating Active Site Properties Governing the Hydrothermal Stability of Phosphorus Modified MFI Zeolites
Guzey, Ediz	1250	Steven Li† William McMahon* Virginia Lucille Hawkins* Sogo Bakare* Andrew Robert Ryan*	Place-based Semiconductor Education and Its Impact on K-12 STEM Pipeline Development in Emerging Hubs
Guzey, Siddika Selcen	1292	Ediz Guzey†	From Circuits to Code: Inspiring Young Minds with Microelectronics

Name	Presentation	Students	Title
Habib, Ayman F	1409	Colton GomolI†	Generation of Reference Data from BackPack LiDAR Point Clouds for Quality Control of Tree Inventory Products
Hagedorn, Isaac P	1480	Andrew Yu-en Loh†	Optimizing Data Corruption Sensing for MRAM
Hagedorn, Isaac P	9031	Blake Alexander Andrews†	An Overview of System-On-Chip Design Flow
Hall, Hana	1210	Louis Michael Delaby†	Investigating the role of Rm62 RNA helicase in R-loop homeostasis, gene regulation, and neurodegeneration in aging.
Hall, Mark C	1222	Ethan C Tuttle†	A conserved function for Cdc14 phosphatases in fungal cell wall homeostasis
Han, Yuxi	1004	Thomas Martinod Saldarriaga†	Construction of a Weak KAM Solution for the Overdamped Langevin Dynamics HJE
Hanafy, Hazem Khaled	1409	Colton GomolI†	Generation of Reference Data from BackPack LiDAR Point Clouds for Quality Control of Tree Inventory Products
Handwerker, Carol A	1285	Rachel Christine Quisil Ordiales† Diego Jimenez Rivera† Ian Strachan†	High Temperature Solders for Aerospace and Defense
Handwerker, Carol A	7065	Diego Jimenez Rivera†	Room Temperature Aging Effects on Microstructural Solidification Behavior of Sn-Bi Low-Temperature and Sn-Ag-Cu High- Temperature Solder Alloys
Harbin, Sherry L	1262	Sanjana Prashanth†	Computational Validation of Localized and Concentrated Vaccine Delivery Eliciting Robust Antibody Responses
Hartzell, Aaron Jacob	1030	Daniel Jose Carrascal Bonilla†	Development of an Experimental Setup to Investigate Commercial Refrigeration Systems with Low-GWP Refrigerants
Hartzler, Samuel	7068	Lucia Zhang†	Automated, High-Throughput Cryo-EM and CLEM Workflows for Population-Level Liposome Characterization
Hasanzadeh, sogand	1470	Nathan Daniel Weston†	Construction Worker Trajectory Modeling and Prediction for Workzone Safety
Hassan, Ahmed Abdelkhale	1003	Etna Sofia Gonzalez Granados†	Development of a multiantigenic vaccine against Clostridioides difficile
Hassan, Ahmed Abdelkhale	7040	Aryaman Dewan†	Multi-Omics Profiling Reveals Host Drivers of C. difficile Severity
Hauersperger, Daniel N	7077	Ha Nguyen† Shreyans Jain‡ Ekagrah Kumar‡ Nihar Dharmesh Shah*	Implementation and Evaluation of Large Language Model-Based Intelligent Tutoring Systems in Biological Engineering Curricula
Haynes, Linda E	7056	Aastha Rasesh Patel†	Mechanisms of Speech Perception: Cross- Linguistic Vowel Discrimination and Kinesthetic Learning Technology
He, Qixin	1060	Daniela Alejandra Puentes Herrera†	Exploring the Emergence and Persistence of Drug-Resistant Malaria
He, Rui	1404	Xiangrui Kong†	Al assisted Electromechanical Impedance for Civil Infrastructure Monitoring
Hejl, Kendahl R	1464	Ethan Scott Streckfuss†	Predicting St Joseph River Plume Behavior Using Satellite-Derived Observations and Hydro-Meteorological Measurements
Hejl, Kendahl R	7020	Maggie McLeod†	Automated Monitoring and Prediction of Saginaw Bay Shoreline Response using Satellite Imagery
Henager, Marissa Elaine	1269	Hayden Schneider†	Cyclodextrin Derivative Synthesis for Use in Formation of Layer-By-Layer Elastin Like Polypeptide Nucleic Acid Self Assembling Nanoparticles.
Henager, Marissa Elaine	1275	Peyton E Tanoury†	Synthesis of Cationic Alpha-Cyclodextrin to Aid in Layer-by-Layer Elastin-like Polypeptide Nucleic Acid Nanoparticle Materials

Name	Presentation	Students	Title
Herchenbach, Patrick James	1304	Amber K Wang†	No Glovebox? No Problem. Accessing Hypoxic Electroanalysis Using Dense Gases in a Fish Tank
Hernandez Dominguez, Jorge Emanuel	1072	Darshini Shankar† Jaewoo Lee‡	Determining the Role of Histone Deacetylase Inhibitors as Enhancers of Axonal Regeneration After Spinal Cord Injury in Zebrafish
Hernandez Franco, Juan F	1262	Sanjana Prashanth†	Computational Validation of Localized and Concentrated Vaccine Delivery Eliciting Robust Antibody Responses
Herrera Ospina, Eloisa	1069	Gisell Natalia Romero Delgado†	Effects of Heat Stress on Blood Pressure Regulation and Cardiac Baroreflex Function
Hibbitts, David	1083	Jeremy W Libby†	Simple Alkane Hydrogenolysis as a Model for Polyethylene Hydrogenolysis on Ruthenium
Hill, Megan Leigh	1290	Daniel Michael Carrel†	10,000,000x Increase in Electrochemiluminescence Lifetime through Parasitic Pathway Suppression
Hirisave Shivaram, Niranjan	1238	Jose Gutierrez†	Ultrafast Squeezed Quantum Light Generation and Measurement
Hoagland, Lori	1005	Maria Fernan Moreno de la Espriella†	Evaluation of Bokashi as a Suppressive Strategy Against Botrytis cinerea in Tomato (Solanum lycopersicum) and Validation of Its Effectiveness Using Multispectral Sensors
Hogenesch, Harm	1262	Sanjana Prashanth†	Computational Validation of Localized and Concentrated Vaccine Delivery Eliciting Robust Antibody Responses
Hood, Kaitlyn T.	1056	Brijesh B Patel† Alexander G Kelley‡	Modelling Deformable Cells in Inertial Flow Using Spherical Harmonics
Hoskins, Tyler D	1403	Amber Grace Hitchins†	Methodology for Environmental Toxicology: Assessing Feeding and Rearing Strategies in Largemouth Bass (Micropterus nigricans) Larvae
Hossain, Samera	1091	Andrew LeClair†	Low-Level Legacies and Simulation-Based Validity
Howard, Madison Mckensi	1237	Angelica Sofia Gonzalez-Ng† Maria Macias* Eliza Louise Thurs*	Investigating Breast Cancer Cell Mechanical Memory in Relation with Lung Respiration Rates Using a High-Throughput Magnetic Actuation Platform
Howard, Madison Mckensi	1465	Eliza Louise Thurs† Angelica Sofia Gonzalez-Ng‡ Maria Macias‡	Investigating the Response of Human Lung Fibroblasts to the Mechanical Strain of Respiration
Howard, Madison Mckensi	7093	Maria Macias† Angelica Sofia Gonzalez-Ng‡ Eliza Louise Thurs‡	A DNA Damage Analysis of Breast Cancer Cells Under Cyclic Mechanical Actuation
Howell, Kathleen	1458	Javier S Robinson†	Constructing Spacecraft Trajectories in the Earth-Moon Region using Adaptive Trajectory Design Software
Hoyos Moreno, Andres Felipe	1095	Justin Zijie Gan†	System-Level Dynamics of an RC Vehicle: A Black Box Approach to Drivetrain Modeling
Hu, Yanjun	1008	Devansh Khandelwal†	A Deep Learning Framework with XAI for Atmospheric Blocking Detection and Interpretation
Hua, Inez	1038	Lilyana Gundayao†	Life cycle assessment of integrated biochemical and physicochemical processes aimed at recovering critical metals from municipal solid waste in landfills
Hua, Inez	1048	Oliver Yichi Li†	Investigating Microbes and Their Connection to Metals in Municipal Solid Waste Landfill Leachate with Simulated Bioreactors
Huang, Haixuan	1013	Grayson Welch†	Classifying Hamiltonians by time evolution of slater states

Name	Presentation	Students	Title
Huang, Jialong	1287	Jianing Xue†	Hybrid metamaterial designs with tunable
			physical properties via laser patterning
Huang, Po-Chun	1085	Charity E Smith†	Electrochemical ethane dehydrogenation using
		Ally Guo‡	fabric-templated 3D cathodes for CO2
			reduction
Huang, Po-Chun	7049	Ally Guo†	Electrocatalyst development for decarbonized
		Charity E Smith‡	solid oxide electrochemical ethane
Huang, Sheng-wen	7063	Kevin Yu†	dehydrogenation  Nondestructive Multimodal Classification of
Truang, Sherig-wen	7003	Wei Lun Chang†	Counterfeit Integrated Circuits using Spectral
		Sean Ross Klein†	and Profilometry Measurements
		Justin E Bullock†	und Fromometry Wedsarements
Hunnicutt, Hope	9021	Colin J Keeter†	Measuring and comparing signal feature
, ,			variation under degrading Temperature versus
			radiation conditions
Hussain, Muhammad Mustafa	1022	Muhammad Zohaib Ali†	FLORA: Field and Landscape Observation via
		Mirza Orunav Shahper‡	Robotic Automation
		Qinjia Xu*	
Hussain, Muhammad Mustafa	7017	Neha Saleha†	EXHALE (Exudate and Hydration Analysis for
			Lesion Evolution)
Hynes, Morgan M	1027	Sogo Bakare†	Semiconductor Education as the Seed for
		Virginia Lucille Hawkins*	Nigeria's Tech and Economic Growth
		Steven Li*	
	1010	William McMahon*	
Hynes, Morgan M	1040	Virginia Lucille Hawkins†	Al in Ideation: Is it hurting or helping? A
		Sogo Bakare* William McMahon*	qualitative analysis of student discourse during
		Steven Li*	engagement with the engineering design process
Hynes, Morgan M	1052	William McMahon†	Analysis on the effectiveness of LLM's to assist
Tryfies, Worgan W	1032	Virginia Lucille Hawkins*	inexperienced programmers in the debugging
		Steven Li*	and generation of basic python scripts
		Sogo Bakare*	una generation of basic python scripts
Hynes, Morgan M	1250	Steven Li†	Place-based Semiconductor Education and Its
, , ,		William McMahon*	Impact on K-12 STEM Pipeline Development in
		Virginia Lucille Hawkins*	Emerging Hubs
		Sogo Bakare*	
		Andrew Robert Ryan*	
Ikoh, Anamano Editi	7081	Jamie Chanadol Henson†	Autonomous Quadcopter Battery Swapping for
		Adina Ioana Margineantu‡	Extended UAV Endurance
		Clifford Walter Gamble*	
Inouye, David Iseri	1264	Aakarsh Nagendra Rai†	Multi Target Trajectory prediction with Non-
			Overlapping Cameras
Inouye, David Iseri	1474	Peter Zakariya†	Robust Message-Passing for Decentralized
			Machine Learning under Communication
Iyakaremye, Jean Paul	1002	Maria Paula Garcia Molina†	Constraints  MAGIC-Derived Genotyping and QTL Mapping
iyakaremiye, Jean Faui	1002	Ivialia Faula Galcia Iviolilia	in Vigna unguiculata: Enhancing Quality Traits
			and Tannin Characterization
Iyer, Shalini	7084	Matthew Reitmajer†	Proximity-Driven Capture of LnaB–Ubiquitin
1,61,61141111	7.55	mattiness meisunaje.	Complex Reveals AMPylation Mechanism
lyer-Pascuzzi, Anjali	1064	Mateus Rocha Ripari†	Determining the Functional Domains of a
,		Paula Natalia Natalia Paez Monroy‡	Ralstonia Type III Core Effector Protein
		Elise Bennett*	
Jain, Neera	1047	Henry J Lee <sup>†</sup>	Exploring Interdependencies Between Self-
			Confidence, Workload, and Learning Stage For
			Intelligent Tutoring Systems
Jain, Neera	1460	Yilin Shao†	Improving Intelligent Tutoring System
			Responsivity to Humans through Haptic
			Feedback
Jain, Neera	1468	Allen Joseph Vidallon†	Building Model to Evaluate Multi-functional
			HVAC Platform with Modular Thermal Storage

Name	Presentation	Students	Title
Jain, Neera	7002	Emanuele Bossi†	Don't Bother the Driver: Sensor-Scheduling for Cognitive State Estimation During Automated Driving
Jakob, Emily R	1024	Paula Daniela Avila Martinez†	Calcium-Dependent Regulation of Tiam1 and CaMKIIy During Mammalian Egg Activation
Jakob, Emily R	1061	Daniela Ramirez Castellanos†	Hyaluronan Gels for Tissue Mimics
Jakob, Emily R	1064	Mateus Rocha Ripari† Paula Natalia Natalia Paez Monroy‡ Elise Bennett*	Determining the Functional Domains of a Ralstonia Type III Core Effector Protein
Jakob, Emily R	1065	Liam N Rochet†	Fabrication of Patient-Specific Compliant Aorta model for In Vitro Flow Experiments
Jakob, Emily R	1069	Gisell Natalia Romero Delgado†	Effects of Heat Stress on Blood Pressure Regulation and Cardiac Baroreflex Function
Jakob, Emily R	1230	Ameya Vikram Bhargava†	Bacteria Identification using Hyperspectral Imaging Related to Environmental Monitoring Fields
Jakob, Emily R	1252	Aditya Mallepalli†	Modeling the Role of Mechanosensation in Epithelial Wound Closure Dynamics
Jakob, Emily R	1256	Mahira Mim† Bryn R Goldstein*	Enhancing Carbon-Negative Cement Composites with Surface-Modified Cellulose Nanomaterials
Jakob, Emily R	1260	Srikushal Muthamsetty†	Agent-based computational modeling of the homeostatic cortical actin array in plant epidermal cells
Jakob, Emily R	1261	Paul Kyu-Hwan Park†	Arc Welding Metal 3D Printing for Composite Tooling
Jakob, Emily R	1265	Juan Esteban Rios Gonzalez†	A Quantitative Comparison of Motion Blur Correction Methods: MCFI, Post-Processing, and a Preemptive Human-Perceptual Approach
Jakob, Emily R	1270	Elliott Shi†	Statistical Modeling of Interstage Outcomes in Infants with Single Ventricle Heart Disease Using Data from the SVR Trial.
Jakob, Emily R	1271	Kenneth David Siefken†	Computational modeling to assess spatial Calcium signaling patterns and mechanisms during plant defense
Jakob, Emily R	1279	Keith S Yung†	Optimization of Large-Scale DNA Tetrahedral Nanostructure for Enhanced Drug Delivery Across the Blood-Brain Barrier
Jakob, Emily R	1421	Amelia G Campbell†	Enhancing Synucleinopathy Detection in Preclinical Rodent Models using Surfactant- Modified Seed Amplification Assays
Jakob, Emily R	1437	Sreesha Vedavalli Kidambi†	Cellular Uptake of Functionalized DNA Tetrahedra for in vitro miRNA Drug Delivery
Jakob, Emily R	1439	lan Kwan Yin Lam† Rachel M Rivera‡	High-Resolution Zebrafish Nuclei Segmentation with Chunked Processing and NISNet3D
Jakob, Emily R	1456	Rachel M Rivera† Ian Kwan Yin Lam‡	Lightsheet Imaging for pSmad in Zebrafish Epiboly with Opto-controls of BMP Receptors
Jakob, Emily R	1461	Wilhelm S Smith† Anna Julie Astrid Webb‡ Aasish Chowdary Karuturi‡ Bea Olivia Cabot‡	4D Echocardiographic Assessment of Regional Strain in Acute Doxorubicin Cardiotoxicity
Jakob, Emily R	1463	Morgan Stephens†	Examining Myh9a Function and Localization in Zebrafish Wound Closure Utilizing PhiC31-CRISPR-Cas9 Knock-In Line Methods
Jakob, Emily R	1466	Reece Avery Tippery†	Rheological Characterization of Fungal Mycelium Gels for Soft Electronics Technology
Jakob, Emily R	7020	Maggie McLeod†	Automated Monitoring and Prediction of Saginaw Bay Shoreline Response using Satellite Imagery

Name	Presentation	Students	Title
Jakob, Emily R	7029	Mansi Abhijit Dhamne†	Health Persona: An Al-Powered Multimodal Health Platform for Real-Time Symptom Analysis and Personalized Insights on hEDS
Jakob, Emily R	7030	Mihika Desai†	Injectable granular hydrogels for potential cardiac tissue repair applications
Jakob, Emily R	9023	Laine Chapman†	Microfluidic Analysis of Nanoparticle Binding in the Subarachnoid Space
Janes, David B	1415	Tei Okamoto† Alexandre Chan Tome† Sophia Ho† Henry N Kuehl† Drew Thomas Novak† Brendan V Espinola†	STARS MIM Characterization
Jang, Goeun	1039	Juliana Gutierrez†	Potential enhanced degradation of contaminants when reacting with free chlorine adsorbed onto media used in tap water pitcher filters
Jasinkiewicz, Noah A	1434	Sidh Jain†	Implementation and Validation of a Robust HR- pQCT Time-Lapse Imaging Pipeline for Quantifying Bone Remodeling
Jeannette, Paisley Lilliana	1436	Lucas O Johnson†	Utilizing Directed Evolution Techniques to Gain Insights into Factors Dictating the Substrate Scopes of Penicillin Binding Protein-Type Thioesterases
Jeevanandam, Sibibalan	7002	Emanuele Bossi†	Don't Bother the Driver: Sensor-Scheduling for Cognitive State Estimation During Automated Driving
Jegatheesan, Annapoorani	1476	NaLaya Lee†	Immunolocalization of a Rhoptry Protein, SnROP21, in the Merozoite and Schizont Stages of Sarcocystis neurona
Jewell, Joseph S	1057	Soham Pawaskar† Matthew S Leight‡	Characterization of droplet breakup dynamics for water–isopropyl alcohol droplets in shock-induced flow conditions
Jewell, Joseph S	1231	Kaitlyn Elizabeth Bird† Aaron Su‡	Hypersonic Wind Tunnel and Constrained Ballistic Model Design and Analysis
Jewell, Joseph S	1273	Aaron Su† Kaitlyn Elizabeth Bird‡	Hypersonic Wind Tunnel and Constrained Ballistic Model Design and Analysis
Jewell, Joseph S	7032	Matthew S Leight† Soham Pawaskar‡ Eleanor Captola Hostetler*	Imaging and characterization of shock-induced aerobreakup in aqueous-IPA droplets
Jiao, Dan	7009	Hsin-Yu Tsern†	Hybrid Parallelization Framework with Dynamic Resource Management for Large-Scale EM- Multiphysics Simulations
Jo, Euihyun	1420	William Christophe Bultman† Aditya Srinivasan* Vincent Cody Stavig*	Exfoliating WSe2 in search of quantum phenomena in TMD Moiré superlattices
Jo, Euihyun	1500	Vincent Cody Stavig† Aditya Srinivasan† William Christophe Bultman*	Searching for novel quantum phase in TMD Moiré superlattice
Johns, Cortland Hannah	1461	Wilhelm S Smith† Anna Julie Astrid Webb‡ Aasish Chowdary Karuturi‡ Bea Olivia Cabot‡	4D Echocardiographic Assessment of Regional Strain in Acute Doxorubicin Cardiotoxicity
Johns, Cortland Hannah	7024	Bea Olivia Cabot† Anna Julie Astrid Webb‡ Wilhelm S Smith‡ Aasish Chowdary Karuturi‡	Identifying Doxorubicin-Induced Cardiotoxicity Using 4D Echocardiography
Johns, Cortland Hannah	7039	Aasish Chowdary Karuturi† Wilhelm S Smith‡ Bea Olivia Cabot‡ Anna Julie Astrid Webb‡	Dobutamine Stress Testing in 4D Strain Detection of Early Cardiotoxicity in a DOX- Treated Mouse Model

Name	Presentation	Students	Title
Johns, Cortland Hannah	7083	Anna Julie Astrid Webb† Bea Olivia Cabot‡ Aasish Chowdary Karuturi‡ Wilhelm S Smith‡	Sex-dependent differences in cardiac function and strain in doxorubicin-induced cardiomyopathy
Johnson, Brandon Charles	7036	Gregorio Lince†	Formation of silicate spherules in impact produced vapor plumes
Johnson, Mark	7045	Stanley Tzarkwai So†	A Successive-Approximation Analog-to-Digital Converter for Data Acquisition in a System-on- Chip
Johnson, Mark	7080	Dylan Swanson†	Design of a single-ended CMOS inverter ring oscillator DCO with 16-stage switched capacitor coarse tuning and 6-bit C-2C ladder fine tuning for a RISC-V system-on-chip application
Johnson, Mark	9019	Shayan Hasib Jafri†	Design and Fabrication of a Basic Printed Circuit Board (PCB) for Educational Applications
Johnson, Mark	9020	Pierce Yungjoon Johnson†	DIGITALIZATION OF STARS FOR WIDESPREAD USE
Johnson, Mark	9030	Katelyn Krishan Shah† Minghan Wang† Asavari Deshmukh†	Tapeout Preparation and Performance Configuration for a RISC-V System-on-Chip
Johnson, Mark	9031	Blake Alexander Andrews†	An Overview of System-On-Chip Design Flow
Jones, Spencer Dean	1278	Sota Yanagisawa†	Direct servo-driven actuation strategy for an
·		Abdullah Mouaffaq S Albaghdadi‡	avian-inspired flapping-wing aerial vehicle
Jones, Spencer Dean	1417	Abdullah Mouaffaq S Albaghdadi† Sota Yanagisawa‡	Aerodynamic Analysis and Wind Tunnel Testing of an Avian-Inspired Flapping-Wing Aerial Vehicle
Jung, Andreas	1063	Rafael Riesco Risco†	Carbon composite support structure with integrated thermal management for time of flight detector for ePIC- EIC
Jung, Andreas	1413	Madeline Anna Rehwinkel†	Prospects for Quantum Entanglement at the High Luminosity Large Hadron Collider (HL-LHC)
Jung, Andreas	7033	Myron Milad Tadros† Mason Patrick Julius Levere† Siddhant Jain† James Thomas Pittard* Sydney Metz*	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Jung, Andy	1244	Siddhant Jain† Mason Patrick Julius Levere† Myron Milad Tadros† James Thomas Pittard* Sydney Metz*	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Jung, Andy	1249	Mason Patrick Julius Levere† Myron Milad Tadros† Siddhant Jain† James Thomas Pittard* Sydney Metz*	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Jurow, Lucy Anne	1444	Hannah Jordan Margulis†	Evaluating Tactile Perception in Freely Moving Mice Through Paw-Based Texture Discrimination
Kaboolian, Matthew	1035	Gabriela Garcia Cardenas† Amelia Paige Ringor*	Coated in slime: the physical properties of skin mucus across fish species
Kaboolian, Matthew	1466	Reece Avery Tippery†	Rheological Characterization of Fungal Mycelium Gels for Soft Electronics Technology
Kagaya, Yuki	7066	David Platt†	NuFold RNA Database: Creating a Deep Learning Tertiary Structure Prediction Library with Secondary Structure Confidence
Kaiser, Bridget Louise	7060	Andrew M Strawhacker†	Structure-Based Drug Development for Autoinflammatory Immune Dysregulation and Ibrutinib-Resistant Leukemia

Name	Presentation	Students	Title
Kamath, Krutarth Kiran	7006	Pratyush Chettri†	Optimization of Nb4C3Tx MXene Synthesis for
		Aditi Akella*	Improved Yield and Flake Quality
Karcher, Darrin M	1483	Neely JoAnne Brown†	Battle of the Scanners: Comparing QCT to the
		Anna Rachelle Hardesty†	Volscan Profiler 300
		Emily Rose Mawhorter†	
		Gabriella Anna Tysse Levine‡	
		Olivia Katherine Sullivan‡	
Karcher, Darrin M	1503	Gabriella Anna Tysse Levine†	How Diet Changes in Older Hens Affect the
		Olivia Katherine Sullivan†	Vitelline Membrane Strength
		Anna Rachelle Hardesty‡	
		Neely JoAnne Brown‡	
		Emily Rose Mawhorter‡	
Karmarkar, Sushrut	1063	Rafael Riesco Risco†	Carbon composite support structure with
,			integrated thermal management for time of
			flight detector for ePIC- EIC
Karmarkar, Sushrut	1499	Jalynn Sanders†	Addressing 3D Printing Defects for Upgrades to
, , , , , , , , , , , , , , , , , , , ,		, caa	CERN's Large Hadron Collider
Kashgarani, Haniye	9004	Brendan Swanson†	AnvilOps: Increasing Accessibility of Kubernetes
nasiigaraiii, riaiiiye	300 !	Emma Zheng‡	with Automated Builds and Deployments
Kashgarani, Haniye	9007	Emma Zheng†	AnvilOps: Accelerating the Kubernetes
Kasiigaraiii, Haiiiye	3007	Brendan Swanson‡	deployment cycle
Kate, Aniket Pundlik	7013	Kovid Tandon†	Topology-Hiding Computation Tolerating Fail-
Rate, Alliket Pullulik	7013	Rovid Talldoll'	Stop Adversaries
Kataaraha Jaaraa	1040	Vissinia Lucilla Haudina+	
Katsamba, Ioanna	1040	Virginia Lucille Hawkins†	Al in Ideation: Is it hurting or helping? A
		Sogo Bakare*	qualitative analysis of student discourse during
		William McMahon*	engagement with the engineering design
		Steven Li*	process
Katsamba, Ioanna	1043	Tyler James Hughes†	Acoustic Enhancement of Porous Filters in
			HVAC Systems for Submicron Bioaerosol
			Removal
Katsamba, Ioanna	1049	Brenda Sofia Lizarazo Olivera†	Mineral Precipitation and Surface Roughness in
			Fractured amphibolite Rocks
Katsamba, Ioanna	1052	William McMahon†	Analysis on the effectiveness of LLM's to assist
		Virginia Lucille Hawkins*	inexperienced programmers in the debugging
		Steven Li*	and generation of basic python scripts
		Sogo Bakare*	
Katsamba, Ioanna	1054	Ngoc Gia Khang Nguyen†	Influence of Base Plate Thickness and Anchor
			Spacing on Combined Concrete and Pullout
			Failure of Bonded Anchors Under Tension
Katsamba, Ioanna	1055	Khang Nguyen†	Bridging Lab and Field: A UWB SAR Testbed for
			Practical Sensing and Imaging Applications
Katsamba, Ioanna	1068	Kaley Roe†	Allometric scaling of macro-to-micro ratios of
			geometrical bone properties
Katsamba, Ioanna	1079	Jack Thomas Willard†	Design of Electrically Small Dielectric Resonator
			Antennas
Katsamba, Ioanna	1234	Charles R Curione†	Investigation of Performance of Anchorages in
			Narrow Foundations Under Predominant
			Moment Loading
Katsamba, Ioanna	1239	Isaiah T Harris†	Thermal Mapping of Furnace Insulation using
			Raspberry Pi and IR Sensors to Predict
			Maintenance
Katsamba, Ioanna	1274	Sarthak Tandon†	Provably Correct Quantum Circuit Cuttin
Katsamba, Ioanna	1416	Ben N Aaron†	Failure modes of thin film peeling under
,		Mike Xiao‡	peridynamics and cohesive zone models
Katsamba, Ioanna	1430	Yichen Hu†	CADialogs: Empowering Precise Control for 3D
			Generation and Simplified Designing Processes
Katsamba, Ioanna	1431	Qingyi Hu†	Computational Analysis of Genetic Screens in
natsamba, Ibamia	1731	Cingyi iia	
			Stem Cell-Derived Neurons Using MAGeCK

Name	Presentation	Students	Title
Katsamba, Ioanna	1436	Lucas O Johnson†	Utilizing Directed Evolution Techniques to Gain Insights into Factors Dictating the Substrate Scopes of Penicillin Binding Protein-Type Thioesterases
Katsamba, Ioanna	1442	Han Li†	Video Analytics and Texture Analysis for Assessing Feed Mix Uniformity
Katsamba, Ioanna	1448	Khanh Nam Nguyen†	Human Body Communication IC & System Design
Katsamba, Ioanna	7000	Aritro Chatterjee†	Machine Learning and Quantum Simulation of Critical Behavior and Defects in Frustrated Lattice Models
Katsamba, Ioanna	7004	Phoebe G Smock†	Structural and Functional Characterization of Highly Potent and Selective G Protein-Coupled Receptor Kinase 5/6 Drug-like Inhibitors
Katsamba, Ioanna	7015	Brianna Petruccelli†	Investigating the Role of Lightning in Remanent Magnetization on the Surface of Mars
Katsamba, Ioanna	7044	Mukul Agarwal†	Embedding Schur Product into Prime-Field Multiplication
Katsamba, Ioanna	7059	Mike Xiao† Ben N Aaron‡	Peridynamics Thin Film Peeling
Katsamba, Ioanna	7075	Chantelle April Miller†	Altering a Biobased Epoxy via Fillers to Improve Adhesion to Wood
Katsamba, Ioanna	7076	Pham Thanh Ngan Dinh†	Surface Tension Study of Fluorine-free Firefighting Foam based on the Mixture of Hydrocarbon and Silicone Surfactants
Kaur, Upinder	7074	Zihan O Zeng†	MorphoFoot: Shape-Adaptive Pneumatic Foot Boosts Multi-Terrain Locomotion in Legged Robots
Kazemian, Majid	1217	Tanvi Karthika Nadimpalli†	Examining the Effects of Candida albicans and Candida glabrata Metabolites on Cell Proliferation in Gastric Cancer Cells
Kelkar, Parth Uday	1037	Javier Guio Gomez†	A deep-learning based X-ray computed tomography reconstruction model for increasing throughput of imaging data
Kelkar, Parth Uday	1048	Oliver Yichi Li†	Investigating Microbes and Their Connection to Metals in Municipal Solid Waste Landfill Leachate with Simulated Bioreactors
Kelkar, Parth Uday	1233	Ethan Patrick Connolly† Heather Murillo*	Characterizing Inorganic Ions in Municipal Solid Waste Landfill Leachate to Improve Processes to Recover Critical Metals
Kelkar, Parth Uday	1247	Brian Arild Kelly†	Finite Element Method Characterization of Human Radius Bone Strength
Kelkar, Parth Uday	1248	David Kichul Kim† Hannah Yeonsoo Park‡	Characterization of Hydrogel Matrix for Evaluating Schistosoma Egg Migration
Kelkar, Parth Uday	1257	Priya Mishra† Kyung Jun Lee‡ Manaswini Singh‡	Fabrication of STM-Compatible Hexagonal Boron Nitride/Graphite Devices for Quantum Defect Studies
Kelkar, Parth Uday	1273	Aaron Su† Kaitlyn Elizabeth Bird‡	Hypersonic Wind Tunnel and Constrained Ballistic Model Design and Analysis
Kelkar, Parth Uday	1425	Deniz Eksioglu†	An experimental method for exploring the linearity thresholds for electrochemical impedance spectroscopy of neural interfaces
Kelkar, Parth Uday	1428	Austin H Gibson†	Predictive Maintenance of Vacuum Pump with Temperature and Sound Monitoring Using Deep Learning
Kelkar, Parth Uday	1440	yahor lechanka†	CogniPilot Autopilot Development
Kelkar, Parth Uday	1441	Kristine Yoonseo Lee†	Bi-directional Robotic Integration with Digital Twin for Generalized, Efficient, and Safe Automation in Manufacturing (BRIDGES)
Kelkar, Parth Uday	1452	Son Quoc Son Phan† Timothy P Malloy‡	Heterogeneous Integration/Advanced packaging

Name	Presentation	Students	Title
Kelkar, Parth Uday	1455	Chengxun Ren†	Graph-Based Learning for Weather Forecasting
			Using Data-Driven Approaches
Kelkar, Parth Uday	1459	Francisco Sebastiano†	Interactions of High Repetition Rate
		Nicodemus M O'Brian‡	Subthreshold Nanosecond Pulses on Biological
	_		Cells
Kelkar, Parth Uday	1465	Eliza Louise Thurs†	Investigating the Response of Human Lung
		Angelica Sofia Gonzalez-Ng‡	Fibroblasts to the Mechanical Strain of
K. II	4.470	Maria Macias‡	Respiration
Kelkar, Parth Uday	1473	Alan S Yi† Daniel Anoruo†	QFedLib – A Quantum Federated Learning
		Daniel Anoruo	Framework with Fully Homomorphic Encryption for Efficient Data Privacy
Kelkar, Parth Uday	7002	Emanuele Bossi†	Don't Bother the Driver: Sensor-Scheduling for
Keikar, Fartir Oday	7002	Emandele Bossi	Cognitive State Estimation During Automated
			Driving
Kelkar, Parth Uday	7005	Mo Chen†	Investigating Combustion Instability
	1.000		Mechanisms in Turbulent Jet Ignition and
			Evaluating Mitigation Strategies Using High-
			Speed Optical Diagnostics
Kelkar, Parth Uday	7019	Ana Maria De La Torre Sanchez†	Optimizing ARU Deployment: Effects of
			Sampling Intensity and Spatial Arrangement on
			Wild Bird Biodiversity Detection Around
			Poultry Facilities
Kelkar, Parth Uday	7042	Pranav Mahesh Kuruba†	Detection of Extracted Actinides from Water
		Everett John Nally*	Based Solutions Using Tensioned Metastable
			Fluid Detector Sensor Technology
Kelkar, Parth Uday	7072	Serena Yu†	Comparative neurotoxicity of PFAS chemicals
Kelkar, Parth Uday	7073	Allison C Renshaw†	Optimized Components with Multi-Materials
			Solutions
Kelkar, Parth Uday	7089	Timothy P Malloy†	Solder Alloy Characterization for
		Son Quoc Son Phan‡	Microelectronic Reliability Insights (SCALE
			HI/AP)
Kenley, Charles Robert	1228	Priyank Behera†	Influence Diagrams for Robust Multi-Target
Khanal Nahin	7011	Christian 7hanat	Tracking
Khanal, Nabin	7011	Christina Zhang†	iDiF Undergraduate Summer Research Program: Drone Under-Canopy Forest Survey
Khanna, Rajiv Ashu	1071	Pranav Sanghi†	Visualizing Loss Landscapes to Understand
Kilalilia, Kajiv Asilu	10/1	Fidilav Saligilii	Instability in Reinforcement Learning for
			Language Model Alignment
Khorsandi, Majid	7064	Grace Ann Kowis†	Assessing Lead Levels in Human Bone with
Tarior Sarrai, Wajia	7001	Grace / IIII Nowis	Portable XRF and Benchtop XRF Technology to
			Explore Links to Cognitive Function
Khoudari, Nour	1418	Isabel Sofia Bejarano Molina†	What Drives Pattern Formation in Ferns? A
,		,	Mathematical Modeling Approach
Kihara, Daisuke	7066	David Platt†	NuFold RNA Database: Creating a Deep
·			Learning Tertiary Structure Prediction Library
			with Secondary Structure Confidence
Kim, Eunseob	1239	Isaiah T Harris†	Thermal Mapping of Furnace Insulation using
			Raspberry Pi and IR Sensors to Predict
			Maintenance
Kim, Eunseob	1428	Austin H Gibson†	Predictive Maintenance of Vacuum Pump with
			Temperature and Sound Monitoring Using
			Deep Learning
Kim, Garam	1261	Paul Kyu-Hwan Park†	Arc Welding Metal 3D Printing for Composite
			Tooling
Kim, Han Sae	1066	Jeronimo Rodriguez†	Semantic Segmentation and Reconstruction for
			LoD3 Buildings from Point Cloud Data
Kim, Jaehyeok	1289	Connor Bradley Frey†	Reinforcement Learning Environment for
			Finding Counter-UAV Surveillance Strategies
Kim, Jinwoo	1286	Evan E Tuckley†	Testing the capabilities of two-step absorption
			nanolithography for meta-lens structures

Name	Presentation	Students	Title
Kim, Juhyung	1202	Luis David Garcia Almeida†	Conceptual Design of an Underwater Actuator for Active Vibration Control of Offshore Pile Driving
Kim, June Hyung	1260	Srikushal Muthamsetty†	Agent-based computational modeling of the homeostatic cortical actin array in plant epidermal cells
Kim, Ki Tae	1087	Joseph F Norwood† Martin Vassilev‡	Evolution of P-AgBot: Autonomous Ground Sensor Deployment and Reading
Kim, Ki Tae	1088	Martin Vassilev† Joseph F Norwood‡	P-AgBot: Development of an Unmanned Ground Vehicle for IoT4Ag Soil Moisture Sensor Reading and Deployment
Kim, Ki Tae	1089	Daming Yang† Jeet Brahmbhatt*	Design and Integration of a Robotic Trailer for Autonomous Agricultural Robots
Kim, Tae Yoon	1260	Srikushal Muthamsetty†	Agent-based computational modeling of the homeostatic cortical actin array in plant epidermal cells
Kim, Taehong	7062	Grace O Jos†	Developing a Transparent Microfluidic Platform for Loop Mediated Isothermal Amplification
Kim, Ted Taewook	1084	Sky Okpaku† Isabel C Standley*	Investigating Ethylene Oligomerization by Utilization of Amorphous Lewis Acid Aluminum Containing Catalysts
Kim, Ted Taewook	1086	Isabel C Standley† Sky Okpaku*	The Effect of Acid Concentration and Temperature on the Dispersion of Lewis Acidic Aluminum Active Sites on Amorphous Silica
Kimball, Alejandro Dale	1258	Rebekah E Mou†	Comparing different machine learning methods for AMR gene class prediction after FMT treatment
Kimball, Alejandro Dale	7087	Sakesh Andhavarapu†	Fecal microbiota transplantation therapy alters resistome burden and horizontal transfer potential in a disease-dependent manner
Kinzer-Ursem, Tamara L	1024	Paula Daniela Avila Martinez†	Calcium-Dependent Regulation of Tiam1 and CaMKIIy During Mammalian Egg Activation
Kinzer-Ursem, Tamara L	1437	Sreesha Vedavalli Kidambi†	Cellular Uptake of Functionalized DNA Tetrahedra for in vitro miRNA Drug Delivery
Knapp, Deborah W	1478	Brayden Spurlock†	Investigating IL-17A-Driven Tertiary Lymphoid Structure Cytokine Expression in Canine Bladder Cancer Cells
Knipp, Gregory Thomas	1201	Valeria Certuche Sanchez† Grace Coomes‡	Comparative In Vitro Evaluation of Intestinal Permeation Enhancers for Oral Delivery of Octreotide: Salcaprozate Sodium (SNAC) and Palmitoylcarnitine
Kocsis, Jin	7053	Valeria Nicole Espinoza Tarazona†	Data-Free Backdoor Injection Attacks on Vision Transformers
Kolbinger, Fiona	7008	Maksymilian Mroczkowski†	3D Pancreatic Morphometry in Patients with Intraductal Papillary Mucinous Neoplasms and Association with Malignancy Risk
Komaromy, Andras	1475	Haley Jane Harmeson† Liam Andrew Clarke*	The Effect of ADAMTS10 Mutation on IOP- Associated Optic Neuropathy in Canine Glaucoma
Komrska, Allison M	1032	Mihajlo-Joshua Foali Deganus†	Simulative Assessment of Electron Emission Mechanism Transitions in Planar and Non- Planar Nano-Diodes
Komrska, Allison M	1281	Ziara Cato†	Extending Generalized Space-Charge-Limited Current to Multi-Region Systems
Konstantinopoulos, Kali Nicole	7014	Noah Strawhacker†	A Physiologically-Based Pharmacokinetic Model of Inhaled Rifampin for Treatment of Tuberculosis
Koratikere, Pavankumar Channabasa	1278	Sota Yanagisawa† Abdullah Mouaffaq S Albaghdadi‡	Direct servo-driven actuation strategy for an avian-inspired flapping-wing aerial vehicle

Name	Presentation	Students	Title
Koratikere, Pavankumar Channabasa	1417	Abdullah Mouaffaq S Albaghdadi† Sota Yanagisawa‡	Aerodynamic Analysis and Wind Tunnel Testing of an Avian-Inspired Flapping-Wing Aerial Vehicle
Kosterit, Gunes	1059	Mariana Peres Duarte†	3D Printed Dome-Patterned Arrays: Modelling, Fabrication and Design
Kouvaras Ostrowski, Anastasia	1267	Hiya Samanta† Henry J Lee* Siya Chirag Jariwala*	Co-designing Student VR Experiences for Geology Course Fieldtrips
Koziarz, Jonathan Paul	7042	Pranav Mahesh Kuruba† Everett John Nally*	Detection of Extracted Actinides from Water Based Solutions Using Tensioned Metastable Fluid Detector Sensor Technology
Krogmeier, James V	1406	Aditya Pandurang Prabhu†	Application of Physics-Informed Neural Networks on crop yield prediction at multiple scales
Krogmeier, James V	9012	Vaibhav Charan†	Crop Yield Prediction at Multiple Spatial Scales with Statistical Machine Learning
Krouse, Hannah Renee	1488	Taylor Marie Hollis† Armando Del Tejo Armendariz† Saw Shin Htwe‡ Bethy Natalia Avella‡ Ngoc Phan Khanh Nguyen‡ Jacob Peng‡	Creating Safe, Supportive Places For Youth Learning After School
Krusemark, Casey J	7001	Jocelyn Yang†	In situ conversion of carboxylic acids, alcohols, and amines to aldehydes for DNA-encoded library construction
Kuang, Shiqi	1200	Ana Sofia Calle Munoz† Anna G. Klupshas*	Machine Learning Optimization & Sensor Characterization for Advanced Particle Detection Systems
Kuhn, Richard J	1036	Roberto Angel Garza†	Structural analysis of EEEV in complex with a patient-derived potently neutralizing intact antibody EEEV-373
Kuhn, Richard J	1051	Nicole Martinez†	Insights into Antibody Binding Sites Through Structural Analysis of HCV E1E2
Kulkarni, Ritwik Vijaykumar	1092	Ammar M Mukadam†	Computational Approaches to Thermal Characterization of Materials in IC Packaging
Kulkarni, Ritwik Vijaykumar	1433	Xavier L Ish†	Degradation of Thermal Interface Materials in Submerged Conditions
Kumar, Pradyut	1060	Daniela Alejandra Puentes Herrera†	Exploring the Emergence and Persistence of Drug-Resistant Malaria
Kumar, Shashank	1238	Jose Gutierrez†	Ultrafast Squeezed Quantum Light Generation and Measurement
Labi, Samuel	1095	Justin Zijie Gan†	System-Level Dynamics of an RC Vehicle: A Black Box Approach to Drivetrain Modeling
Laferriere, Kris	7047	Laura Sofia Perez†	Temporal variations in sublimation and their relation with ridge formation in Martian midlatitude ice scarps
Lai, Sean Yenyu	1452	Son Quoc Son Phan† Timothy P Malloy‡	Heterogeneous Integration/Advanced packaging
Lai, Sean Yenyu	7089	Timothy P Malloy† Son Quoc Son Phan‡	Solder Alloy Characterization for Microelectronic Reliability Insights (SCALE HI/AP)
Lai, Xuanying	1454	Zheng Qing†	Biphoton generations & Quantum optics
Landis, Benjamin	7092	Joshua Paik† Felix Dinklage‡ Ahhyun Lee‡	Improving Echocardiographic Aortic Aneurysm Assessment in Marfan Syndrome Patients
Lanham, Matthew	1492	You-Cheng Lay <sup>†</sup>	Defect Prediction in Manufacturing Process Using Supervised Machine Learning Models
Lanham, Matthew	9038	Shreyaa Karan†	Financial Company Client Segmentation Using Agentic Behavioral Features
Lanham, Matthew	9045	Yutian Ye <sup>†</sup>	Exploring and Predicting ChatGPT Usage in Education

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Larkins, Hana Noell	1035	Gabriela Garcia Cardenas†	Coated in slime: the physical properties of skin
		Amelia Paige Ringor*	mucus across fish species
Larson, Nissa Jo	1439	Ian Kwan Yin Lam†	High-Resolution Zebrafish Nuclei Segmentation
		Rachel M Rivera‡	with Chunked Processing and NISNet3D
Larson, Nissa Jo	1456	Rachel M Rivera†	Lightsheet Imaging for pSmad in Zebrafish
		lan Kwan Yin Lam‡	Epiboly with Opto-controls of BMP Receptors
Laskin, Julia	1044	Iliyas Iznat†	Studying the Formation of Metal Chalcogenide
			Clusters with Bidentate Ligands via Ligand Exchange.
Laskowski, Leon Filip	1021	Victoria Isabella Porter†	Investigating the Constituently Active Effect of
Law Janah Li Yusa	1202	Dituo ale Cassandhanana	the D-to-Y Mutation in Phospholipase C?
Lau, Jonah Li Xuan	1283	Ritveek Govardhanam†	OpenMC-Based Analysis of Neutron Radiation Effects on Microcontrollers in lightweight NTP systems
Layman, Brady Robert	1290	Daniel Michael Carrel†	10,000,000x Increase in
Edyman, Brady Nobel C	1230	builter wildliger currer	Electrochemiluminescence Lifetime through Parasitic Pathway Suppression
Lazorchak, Nathaniel Liam	1029	Nicholas Herschel Burris†	Custom Open-Ephys Plug-In for In-Vivo
			Experiments Involving Multichannel
			Stimulation and Recording
Lee, Hojun	1441	Kristine Yoonseo Lee†	Bi-directional Robotic Integration with Digital
			Twin for Generalized, Efficient, and Safe
			Automation in Manufacturing (BRIDGES)
Lee, Jaeil	1408	Diya Singh†	AI-Based Walkability Ecosystem: A
			Personalized, Social and Adaptive Solution to
			Urban Mobility and Public Health
Lee, Kyung Jun	7010	Sagarika Menon†	Expanding Twistronics to Wafer Scale 2D films
		Priya Mishra‡	
		Manaswini Singh‡	
Lee, Kyung Jun	7050	Manaswini Singh†	Engineering 2D Materials for Controlled
		Sagarika Menon‡	Quantum Defects and Beyond
		Priya Mishra‡	
Lehto, Mark R	1408	Diya Singh†	Al-Based Walkability Ecosystem: A
			Personalized, Social and Adaptive Solution to
Lehto, Xinran Y	1408	Diya Singh†	Urban Mobility and Public Health Al-Based Walkability Ecosystem: A
Lento, Xinran Y	1408	Diya Singni	Personalized, Social and Adaptive Solution to
			Urban Mobility and Public Health
Leifsson, Leifur Thor	1278	Sota Yanagisawa†	Direct servo-driven actuation strategy for an
Lensson, Lenar Thor	1270	Abdullah Mouaffaq S Albaghdadi‡	avian-inspired flapping-wing aerial vehicle
Leifsson, Leifur Thor	1417	Abdullah Mouaffaq S Albaghdadi†	Aerodynamic Analysis and Wind Tunnel Testing
, , , , , , , , , , , , , , , , , , , ,		Sota Yanagisawa‡	of an Avian-Inspired Flapping-Wing Aerial
			Vehicle
Lescun, Timothy B	1477	Emily Elizabeth Rastovski†	Mechanical Testing of Equine Laminae Samples
Li, Chennan	1478	Brayden Spurlock†	Investigating IL-17A-Driven Tertiary Lymphoid
,		, ,	Structure Cytokine Expression in Canine
			Bladder Cancer Cells
Li, Christina W	1082	Benedict G Grill†	Solvent Effects on Rh/C Catalyzed
			Hydrogenation of Aromatic Compounds
Li, Christopher Hou	1454	Zheng Qing†	Biphoton generations & Quantum optics
Li, Haitong	1282	Evelyn Colon†	Designing a Compiler for a Heterogeneous
			Digital Compute-In-Memory Transformer Accelerator
Li, Hongjia	7068	Lucia Zhang†	Automated, High-Throughput Cryo-EM and
			CLEM Workflows for Population-Level Liposome Characterization
Li, Jiaqi	1237	Angelica Sofia Gonzalez-Ng†	Investigating Breast Cancer Cell Mechanical
		Maria Macias*	Memory in Relation with Lung Respiration
		Eliza Louise Thurs*	Rates Using a High-Throughput Magnetic
			Actuation Platform

Name	Presentation	Students	Title
Li, Junfei	7090	Chen Han Chan†	Acoustic Application to Air Conditioning Filter
	1050		System
Li, Linlin	1252	Aditya Mallepalli†	Modeling the Role of Mechanosensation in Epithelial Wound Closure Dynamics
Li, Linlin	1439	lan Kwan Yin Lam†	High-Resolution Zebrafish Nuclei Segmentation
		Rachel M Rivera‡	with Chunked Processing and NISNet3D
Li, Linlin	1456	Rachel M Rivera† Ian Kwan Yin Lam‡	Lightsheet Imaging for pSmad in Zebrafish Epiboly with Opto-controls of BMP Receptors
Li, Weihang	1053	Grace Guan Man Meyer†	Time Series Analysis of SAR Backscatter
Li, Welliang	1033	Emiko A Sano*	Time Series Analysis of SAN Buckscutter
Li, Weihang	7061	Emiko A Sano†	Accurate Georeferencing of UAV Synthetic
		Grace Guan Man Meyer*	Aperture Radar Images Using Digital Elevation Models
Li, Yunyue	7051	Santiago Felipe Tique Sarmiento†	Deep Learning-Based Prediction of CO?
			Migration in Geological Storage Formations: Insights of Sleipner Project
Lien, Yi	1017	Nyla Gillus†	Inflammation Pathway: Interactions of
			Granzyme A (GrA) with Bacterial Lipopolysaccharide (LPS)
Lihon, Michelle V.	1222	Ethan C Tuttle†	A conserved function for Cdc14 phosphatases
			in fungal cell wall homeostasis
Lim, Dawith	7037	Agustin Lopez Zapata†	Ultra-Low-Frequency dynamic light scattering
			spectroscopy with a Fresnel biprism common- path digital holography system
Lim, Kaeul	1230	Ameya Vikram Bhargava†	Bacteria Identification using Hyperspectral
			Imaging Related to Environmental Monitoring Fields
Lin, Guang	1241	Sebastian Hurtado†	Quantum DeepONet Architectures for Transient Operator Learning in Power Systems
Lin, Guang	7034	Purav Matlia†	Scalable and Uncertainty-Aware Operator Learning via Quantum Deep Ensembles
Lipton, Megan Hope	1444	Hannah Jordan Margulis†	Evaluating Tactile Perception in Freely Moving Mice Through Paw-Based Texture
			Discrimination
Lisch, damon	1213	Amelia Johnson†	Drought Stress in Maize
Lisch, damon	1221	Jacob R Streeter†	Effects of Mediator of Paramutation 1 on Embryo Death
liu, Miaoyuan	1200	Ana Sofia Calle Munoz†	Machine Learning Optimization & Sensor
		Anna G. Klupshas*	Characterization for Advanced Particle Detection Systems
Liu, Hongyang	7009	Hsin-Yu Tsern†	Hybrid Parallelization Framework with Dynamic
			Resource Management for Large-Scale EM-
			Multiphysics Simulations
Liu, Julie C	1061	Daniela Ramirez Castellanos†	Hyaluronan Gels for Tissue Mimics
Liu, Xing	1014	Anya Jolee Piarowski†	Identification of HIF1a interacting proteins
Liu, Yangfan	1202	Luis David Garcia Almeida†	Conceptual Design of an Underwater Actuator
			for Active Vibration Control of Offshore Pile Driving
Liu, Ziyi	1435	Haoyu Ji†	Interactive Handwriting-based Tutoring System
			Utilizing Large Language Models
Llacsahuanga Allcca, Andres Eduardo	1414	Madeleine Huang Spark†	Graphene and hBN Encapsulation of 2D Fe(TeSe) for Superconducting Proximity Studies
Loaiza Ramirez, Juan Pablo	9014	Malhar Sushil Jadhav†	Foraging Behavior and Social Influence in Dynamic Traffic
Lokhande, Monish Mahesh	7070	Thendral Kamal† Kevin Patrick Corrigan† Haoyu Zhang†	PREVIEW: Purdue Rocket Experimental Video in Educational Work
Long, Jiaxin	1103	Elysia Marlena Uggen† Joshua Paul Kaluf*	Proximity Labeling to Identify Proteins that Interact Transiently with the ATP-dependent Chromatin Remodeler PICKLE in Arabidopsis thaliana

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Long, Jiaxin	1216	Laurie Lei McIntyre†	Investigating the role of Remodelers and
		Elysia Marlena Uggen‡	Modifications of Chromatin in Gibberellin-
		Joshua T Stephenson*	Dependent Responses in Arabidopsis thaliana
Lopez, Jonathan	7071	Stiwar Albeiro Catano Cardeno†	Impacts of artificial light at night on growth and
		Jabez Soongeui Shin‡	stress responses in American toads
Low-Nam, Shalini T	7067	Quinte Robinson†	Actin Remodeling in Threshold Setting for T cell Degranulation
Lu, Yawen	7011	Christina Zhang†	iDiF Undergraduate Summer Research
			Program: Drone Under-Canopy Forest Survey
Lu, Yung-Hsiang	1236	Peter Edvardsson† Shamita Yedlapalli† Kayla Y. Xu†	Al for Musicians - Performance Audio Evaluator
		Shih-Yao Sun† Ji Bing Ni‡ Ropan Datta‡	
Lu, Yung-Hsiang	1469	Ziang Wang†	Computer Vision for Real-Time Cellist Postural
ea, rang ristang	1403	Shrinand Perumal‡ Luke Jaehyeon Choi‡ Michael X Zhang‡ Benjamin Joseph Taylor*	Correction
		Jackson Patrick Shields* Ekaterina Tszyao* Atharv Kharbanda* Bisti Sunil Potdar* Sivamurugan Velmurugan*	
		Michael Alexander Ikriannikov* Joseph Issac Getachew* Mukund Sanjay Rao*	
Lu, Yung-Hsiang	1481	Franklin Shang†	Quantifying Musical Complexity for Automatic Music Transcription: A Correlation Analysis of Human Perception and AMT Performance
Lu, Yung-Hsiang	1505	Puruo Wang†	CMMD-Based Evaluation of Generative Models
Lu, Yung-Hsiang	9024	Joseph Issac Getachew† Ziang Wang* Michael X Zhang* Benjamin Joseph Taylor* Michael Alexander Ikriannikov*	Musicians Posture Evaluation
Lu, Yung-Hsiang	9025	Michael Alexander Ikriannikov†	Evaluator - AI Posture Correction for Cello Players
Lu, Yung-Hsiang	9027	Saadhana Kallampalli Illam† Bidit Acharyya‡ Sahil Zahid Shaikh‡ Julie Zalautdinov‡ Yash Sunil Burange‡ Prajitchandar Sathischandar‡	Developing a Robotic Drumming System Using Baxter
Lumas, LJ	9004	Brendan Swanson† Emma Zheng‡	AnvilOps: Increasing Accessibility of Kubernetes with Automated Builds and Deployments
Lumas, LJ	9007	Emma Zheng† Brendan Swanson‡	AnvilOps: Accelerating the Kubernetes deployment cycle
Lyon, Angeline M	1021	Victoria Isabella Porter†	Investigating the Constituently Active Effect of the D-to-Y Mutation in Phospholipase C?
Magana DeLeon, Alejandra	1240	Ana Maria Hernandez Lasso†	LLM as Channel to Understand Learning Challenges
Mahajan, Shivani	7037	Agustin Lopez Zapata†	Ultra-Low-Frequency dynamic light scattering spectroscopy with a Fresnel biprism commonpath digital holography system
Mahmoudian, Nina	7016	Lorenzo Demaria†	Airborne Launch and Recovery System: Vision- Based Hook Localization for Autonomous Aerial Recovery of an Underwater Vehicle
Maji, Hemanta K	7044	Mukul Agarwal†	Embedding Schur Product into Prime-Field Multiplication

Name	Presentation	Students	Title
Makin, Maria Cristina	1444	Hannah Jordan Margulis†	Evaluating Tactile Perception in Freely Moving Mice Through Paw-Based Texture Discrimination
Malek, Elizabeth Cecilia	7076	Pham Thanh Ngan Dinh†	Surface Tension Study of Fluorine-free Firefighting Foam based on the Mixture of Hydrocarbon and Silicone Surfactants
Manfra, Michael James	1204	Juan Camilo Ospina Villa†	Isotropic Fractional Hall State to Nematic transition at v=7/2 mediated by nuclear spin polarization
Mannodi Kanakkithodi, Arun Kumar	7091	Junyeong Ahn†	Discovering and Designing Novel Perovskite Photovoltaic Materials via Machine Learning
Mantel, Samuel Joseph	1502	Stephanie Tirado Rojas†	Genetic Divergence and Signatures of Selection Between Locally Adapted Ecotypes of Arabidopsis Thaliana
Mao, Le	1505	Puruo Wang†	CMMD-Based Evaluation of Generative Models
Marconnet, Amy M	1092	Ammar M Mukadam†	Computational Approaches to Thermal Characterization of Materials in IC Packaging
Marconnet, Amy M	1433	Xavier L Ish†	Degradation of Thermal Interface Materials in Submerged Conditions
Marshall, Maria I	1220	Clara Michelle Shoopman†	Embeddedness and Profitability: The Case of Small Businesses in the US Midwest
Martin, Heather Nicole	1499	Jalynn Sanders†	Addressing 3D Printing Defects for Upgrades to CERN's Large Hadron Collider
Martinez, Carlos J	1235	Aryan Dayal† Nicholas Joseph Ostendorf‡	Particle-Reinforced Polymers for 3D Printing in Space
Martinez, Carlos J	7076	Pham Thanh Ngan Dinh†	Surface Tension Study of Fluorine-free Firefighting Foam based on the Mixture of Hydrocarbon and Silicone Surfactants
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Mattoo, Seema	1018	Nathalia Liu De Restrepo†	Developing an understanding of the structural basis of VceC induced UPR via the analysis of the VceC-HYPE complex
Mbewe, Rose	1491	Hannah Krouse†	Development and Implementation of a  Codebook in an Afterschool Research Team
McClain, Monique Suzanne	1076	Ryan J Turnbull† Varunavi Kaveri Raghuraman*	Exploration of Photopolymers in Plastic Bonded Explosives
McClain, Monique Suzanne	1263	Varunavi Kaveri Raghuraman† Ryan J Turnbull*	Microstructural Control of HTPB-Based Energetic Materials
McCluskey, Patrick	9016	Alessandra Nicole Contreras† Trinity M Aguilar†	Radiation Shielding Materials for Modular Power Systems
McCurdy, Asa Lear	1209	Mark T Crooks†	Understanding the Ecology and Physiology of 'Ohi'a Lehua Trees in the Face of Rapid 'Ohi'a Death?
McNeese, Hannah Casey	1403	Amber Grace Hitchins†	Methodology for Environmental Toxicology: Assessing Feeding and Rearing Strategies in Largemouth Bass (Micropterus nigricans) Larvae
McVey, Madelyn Jo	1490	Miho Kato†	The Role of Temporal Predictability in Sustained Attention
Mehta, Shubh Parag	7092	Joshua Paik† Felix Dinklage‡ Ahhyun Lee‡	Improving Echocardiographic Aortic Aneurysm Assessment in Marfan Syndrome Patients
Mei, Jianguo	1472	Reed M Woolard†	Synthesis of a Semiconducting Organic Conjugated Ladder Polymer through Saponification and Lactonification
Meister, Ryan Michael	1062	Amrita Rani Raparti†	Measuring Systemic Inflammatory Effects of Synovial Joint Injury

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Mesa Agudelo, Juan Camilo	1237	Angelica Sofia Gonzalez-Ng†	Investigating Breast Cancer Cell Mechanical
		Maria Macias*	Memory in Relation with Lung Respiration
		Eliza Louise Thurs*	Rates Using a High-Throughput Magnetic
			Actuation Platform
Mesa Agudelo, Juan Camilo	1465	Eliza Louise Thurs†	Investigating the Response of Human Lung
g ,		Angelica Sofia Gonzalez-Ng‡	Fibroblasts to the Mechanical Strain of
		Maria Macias‡	Respiration
Mesa Agudelo, Juan Camilo	7093	Maria Macias†	A DNA Damage Analysis of Breast Cancer Cells
Wesa Aguacio, saan canno	7033	Angelica Sofia Gonzalez-Ng‡	Under Cyclic Mechanical Actuation
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Mesecar, Andrew D	7060	Andrew M Strawhacker†	Structure-Based Drug Development for
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			Autoinflammatory Immune Dysregulation and
			Ibrutinib-Resistant Leukemia
Metskas, Lauren Ann	7068	Lucia Zhang†	Automated, High-Throughput Cryo-EM and
			CLEM Workflows for Population-Level
			Liposome Characterization
Meyers, Brett A	1065	Liam N Rochet†	Fabrication of Patient-Specific Compliant Aorta
			model for In Vitro Flow Experiments
Meyers, Brett A	1270	Elliott Shi†	Statistical Modeling of Interstage Outcomes in
			Infants with Single Ventricle Heart Disease
			Using Data from the SVR Trial.
Meza Galvan, Jesus Adrian	1268	Mary Jane Sayler†	Assessing Reconstitution of Lyophilized
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			LED Light Transmission
Miao, Wenlan	1034	Carmen Raquel Erickson†	The Shape of a Molecule Close to a Metal
what, we man	1054	Carrier Naquer Erickson	Surface: Insights from Density Functional
			Theory
Michalski, Greg M	7021	Jasmine Alayna Luckett†	The Effect of Cloud Condensation Nuclei in
Wilcharski, Greg Wi	7021	Jasiiiiie Alayila Lucketti	
			Stratocumulus Clouds along Southern Coastal
Mickelbart, Michael V	1213	Amelia Johnson†	Peru
			Drought Stress in Maize  The correlation between osmotic adjustment
Mickelbart, Michael V	1297	William Lee Patton†	
			and yield stability in drought-stressed corn (Zea
			mays L.)
Mihalko, Claire Amelia	1287	Jianing Xue <sup>†</sup>	Hybrid metamaterial designs with tunable
			physical properties via laser patterning
Milisavljevic, Danny	1011	Zachary Pleska†	A Model for Extragalactic Supernovae
			Candidates Utilizing Spectral Decomposition
			and Principal Component Analysis
Milisavljevic, Danny	1276	Madeline G Taylor†	Characterizing explosion asymmetry in the
			Cassiopeia A supernova remnant using JWST
			light echo observations
Miller, Dane	9016	Alessandra Nicole Contreras†	Radiation Shielding Materials for Modular
		Trinity M Aguilar†	Power Systems
Miller, Monica	1506	Mia M Yates†	Patient Refused Doses of Critical Medications -
			St. Bartholomew
Mina Cordoba, Hansel Andres	1218	Niah L Patel†	Sanitization of Seeds -A Mechanism for
co. acad, name name		7.13.1.2.1.30.	Produce Growers to Reduce the Risk of
			Foodborne Pathogen Contamination of Fresh
			Produce
Mahammadi Mahsan	1210	Tina Schroedel†	Understanding the Role of Genes in Wheat
Mohammadi, Mohsen	1219	Tilla Schloedeli	
Mantaua Cuaialas Staves	0022	Datas Jacob Por delicost	Root Size
Montoya Grajales, Steven	9032	Peter Joseph Bradshaw†	Supercritical Carbon Dioxide Thermal Cycle
		Ella Renee Moss‡	Design and Fabrication
		Emma Loretta Hansen‡	
		Arnav Basu‡	
		Adiba Alamgir Mrittika‡	
Morgan-Lange, Xavier I	7069	Isaac Parks†	Lunar Water Acquisition via In Situ -Resource
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Morphew, Jason Wade	1245	Zhengyi Jiang†	Designing Gesture-Based Instructional Videos to Enhance Statistical Reasoning in STEM Education
Morris, Aaron B	1426	Emilio Yair Fonseca Puebla†	Development of a modeling tool for bulk particulate flows in large scale systems with complicated geometries
Morrison, Rachel Alena	1262	Sanjana Prashanth†	Computational Validation of Localized and Concentrated Vaccine Delivery Eliciting Robust Antibody Responses
Moser, Abigayle Elaine	1231	Kaitlyn Elizabeth Bird† Aaron Su‡	Hypersonic Wind Tunnel and Constrained Ballistic Model Design and Analysis
Moser, Abigayle Elaine	1273	Aaron Su† Kaitlyn Elizabeth Bird‡	Hypersonic Wind Tunnel and Constrained Ballistic Model Design and Analysis
Moya Calderon, Christian Bolivar	1241	Sebastian Hurtado†	Quantum DeepONet Architectures for Transient Operator Learning in Power Systems
Moya Calderon, Christian Bolivar	7034	Purav Matlia†	Scalable and Uncertainty-Aware Operator Learning via Quantum Deep Ensembles
Mukherjee, Indranil Arun	1255	Julia Rose Millikin†	Expression and Purification of the G Protein Subunit Galphaq in E. Coli
Munjaal, Ananya	9041	Stephania Petit Homme† Olamide Gbemisola† Joeclee Dora Gbasakollie† A'Mya Antionette Murray Coleman‡ Shaylen Deven Patel‡ Yasmin Vargas‡	Heart Healthy Team
Naik, Priyanka S	1255	Julia Rose Millikin†	Expression and Purification of the G Protein Subunit Galphaq in E. Coli
Nanda, Gaurav	1408	Diya Singh†	Al-Based Walkability Ecosystem: A Personalized, Social and Adaptive Solution to Urban Mobility and Public Health
Nareddula, Sanghamitra	1438	Sein Kim†	Inducing Behavioral Choices in Mice by Selectively Stimulating V1 Neuronal Ensembles Using TRAP2 Mice
Negash, Siena Dawit	1077	Maria Angelica Vaquez Hernandez†	Polymer-Nanoparticle Composite Gels to Mimic Muscle Stiffness for Cultured Meat Platforms
Negri, Valentina	1402	Katherine Sophia Chiparus†	Unveiling Food Waste Patterns at Purdue University
Neira Garcia, Jorge Enrique	1081	Daniel Anoruo† Alan S Yi†	QFedLib - A Framework for Fully Homomorphic Encryption with Quantum Federated Learning for Preserving Sensitive Information
Neira Garcia, Jorge Enrique	1083	Jeremy W Libby†	Simple Alkane Hydrogenolysis as a Model for Polyethylene Hydrogenolysis on Ruthenium
Neira Garcia, Jorge Enrique	1085	Charity E Smith† Ally Guo‡	Electrochemical ethane dehydrogenation using fabric-templated 3D cathodes for CO2 reduction
Neira Garcia, Jorge Enrique	7035	Maxwell K Bartlett† David W Ball*	Influence of zeolite framework and diffusional constraints on carbon selectivity during methane dehydroaromatization
Neira Garcia, Jorge Enrique	7048	David W Ball† Aakash Sanjay*	Evaluating Active Site Properties Governing the Hydrothermal Stability of Phosphorus Modified MFI Zeolites
Neira Garcia, Jorge Enrique	7049	Ally Guo† Charity E Smith‡	Electrocatalyst development for decarbonized solid oxide electrochemical ethane dehydrogenation
Nelson, Cole Aaron	9026	Kameron Lee Jackson† Jai Anand Keskar‡ Seongjoong Yim‡	Design of an AES Hardware Accelerator in Chisel for Secure SoC Applications
Nelson, Cole Aaron	9028	Yejin Oh†	SoCET: Automation of Hardware Simulation Workflows

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Nelson, Cole Aaron	9030	Katelyn Krishan Shah† Minghan Wang† Asavari Deshmukh†	Tapeout Preparation and Performance Configuration for a RISC-V System-on-Chip
Neupane, Mohan Bikram	7086	Adriana Maria Velasquez Medina†	Synthesis and Characterization of the TbCr6Ge6 Kagome Magnet
Newman, Christopher L	1434	Sidh Jain†	Implementation and Validation of a Robust HR- pQCT Time-Lapse Imaging Pipeline for Quantifying Bone Remodeling
Nguyen, Thach	1025	Phuong Ba† Thuy Nguyen† Linh Luu† Thuy Truong† Hoang Ly†	RELATION BETWEEN LOCATION AND SEVERITY OF RIGHT CORONARY ARTERY LESIONS ON CORONARY ANGIOGRAPHY
Nguyen, Thach	1026	Phuong Ba† Vinh Lam† Khanh Le† Barun Agarwalla† Quan Nguyen†	Association Between Systolic Blood Pressure Levels and Lesion Distribution in the Right Coronary Artery
Nguyen, Thach	1098	Uyen Dang† Thy Le† Tri Nguyen† Khoa Tran† Thai Nguyen†	Retrograde Distal End-Diastolic Flow as a Marker for Severe Right Coronary Artery Occlusive Lesions on Invasive Coronary Angiography
Nguyen, Thach	1100	Linh Luu† Phuong Ba† Uyen Dang† Ngoc Nguyen† Viet Vo†	Correlation Between Lesion Location and Timing of Lesion Appearance During the Cardiac Cycle in the Right Coronary Artery on Angiography
Nguyen, Thach	1101	Ngoc Nguyen† Linh Luu† Thy Le† Viet Vo† Thai Nguyen†	Differences in High-susceptible Lesion Location on The Right Coronary Artery and Reverse Flow Between Normotensive and Elevated Systolic Blood Pressure Populations
Nguyen, Thach	1102	Thuy Truong† Uyen Dang† Tri Nguyen† Vinh Lam† Quang Hoang†	Impact of Cholesterol Control on Coronary Lesion Development in Flow-Disturbed Segments Identified by Coronary Acoustic Action Map
Nguyen, Thach	1105	Viet Vo† Linh Luu† Ngoc Nguyen† Vo Duong† Quan Nguyen†	Association Between 1R Lesion Severity in the Right Coronary Artery and Cardiovascular Risk Factors: Implications for Medication Management
Nguyen, Thach	1293	Huu Tuan Kiet Hoang†	Post-Pandemic Cardiology: Exploring The Association Between History Of Covid-19 Infection And Cardiovascular Conditions
Nguyen, Thach	1296	Duong Hoang Anh Nguyen†	SUPERIOR OF ARTERIAL PHASE FRAME COUNT IN QUANTIFYING THE RESTORATION OF CORONARY BLOOD FLOW OF THE RIGHT CORONARY ARTERY IN ACUTE CORONARY SYNDROME BY A DYNAMIC ANGIOGRAPHY AND MACHINE LEARNING ANALY
Nguyen, Thach	1298	Dang Pham†	Three Months Follow-up Patients After Acute Coronary Syndrome
Nguyen, Thach	1303	Cao Danh Vo†	Impact of Body Mass Index on Clinical Outcomes of Myocardial Infarction in Elderly Vietnamese Patients
Nguyen, Thach	1486	Chan Huy Ha†	What are the ideal systolic and diastolic blood pressure which do not injure the intima of iliac and coronary arteries?

Bao Lam Phant	Name	Presentation	Students	Title
Nguyen, Thach   1493   Phuong Anh Le†   Pricinged Arithrical Phase as a Cause of the Pain in Takotsubo Cardiomyopathy: A D Angiography and Artificial Intelligence-E Analysis   Nguyen, Thach   1495   Minh Thien Pham†   Morphological Characteristics of Apical Ventricular Thrombi Associated with Ern Risk and Stroke   Nguyen, Thach   1496   Truc Quynh Pham†   Morphological Characteristics of Apical Ventricular Thrombi Associated with Ern Risk and Stroke   Nguyen, Thach   1496   Truc Quynh Pham†   Management of Left Main Coronary Art Disease in Elderly Patients in Vietnam   Nguyen, Thach   1497   Sao Lam Phan†   Defining Idea Of Pressure Threshold Prevent Retrograde Flow and Turbulend Coronary and Iliac Arteries: A Dynamic Angiography and Machine Learning Stur   Nguyen, Thach   1504   Ha Khanh Linh Vo†   Blood Flow Heterogeneidy and Plaque   Eccentricity in Coronary Artery Disease: Dynamic Angiography, Deep Learning, a NUS-Based Coronary Artery Disease: Dynamic Angiography, Deep Learning, a NUS-Based Patient of Sturbulend Prevent Retrograde Flow and Turbulend   Nushari Patient Pat	Nguyen, Thach	1489	Do Phuong Vy Huynh†	THE COANDA EFFECT CAUSED TURBULENCE
Nguyen, Thach   1493   Phuong Anh Le†   Prolonged Arterial Phase as a Cause of Pain in Takob Cardiomyopathy: A D Angiography and Artificial Intelligence-E Analysis.			Bao Lam Phan‡	AND DAMAGED THE INTIMA AT THE MIDDLE
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Anglography and Artificial Intelligence-E Analysis   Nguyen, Thach   1495   Minh Thien Pham†   Morphological Characteristics of Apical Ventricular Thrombi Associated with Error Risk and Stroke   Nguyen, Thach   1496   Truc Quynh Pham†   Management of Left Mini Coronary Art Risk and Stroke   Nguyen, Thach   1497   Bao Lam Pham†   Disease in Elderly Patients in Vietnam   Do Phuong Vy Huynh‡   Defening Ideal Blood Pressure Threshold   Perfening Ideal Pressure Threshold	Nguyen, Thach	1493	Phuong Anh Le†	Prolonged Arterial Phase as a Cause of Chest
Nguyen, Thach   1495   Minh Thien Pham†   Morphological Characteristics of Apical Ventricular Thrombi Associated with Em Risk and Stroke   Nguyen, Thach   1496   Truc Quynh Pham†   Morphological Characteristics of Apical Ventricular Thrombi Associated with Em Risk and Stroke   Management of Left Main Coronary Art Disease in Elderly Patients in Vietnam   Nguyen, Thach   1497   Bao Lam Phan†   Defining del Blood Pressure Threshold   Coronary and Illian   Defining del Blood Pressure Threshold   Coronary Arter Disease in Elderly Patients in Vietnam   Nguyen, Thach   1504   Ha Khanh Linh Vo†   Blood Flow Heterogeneity and Turbulen   Coronary Artery Disease: Dynamic Angiography and Machine Learning Stur   Nguyen, Thach   1504   Ha Khanh Linh Vo†   Blood Flow Heterogeneity and Plaque   Eccentricity in Coronary Artery Disease: Dynamic Angiography, Deep Learning, a IVUS-Based Study   VIUS-Based Study				Pain in Takotsubo Cardiomyopathy: A Dynamic
Nguyen, Thach   1495   Minh Thien Pham†   Morphological Characteristics of Apical Native Prince   Nguyen, Thach   1496   Truc Quynh Pham†   Membrangement of Left Main Coronary Art Disease in Elderfy Patients in Vietnam   Nguyen, Thach   1497   Bao Lam Pham†   Defining Ideal Blood Pressure Threshold Pressure Threshold   P				Angiography and Artificial Intelligence-Based
Nguyen, Thach  1496  Truc Quynh Pham†  Management of Left Main Coronary Art Disease in Elderly Patients in Vietnam Nguyen, Thach  1497  Bao Lam Phan†  Definiting Ideal Blood Pressure Threshold Prevent Retrograde Flow and Turbulent Coronary And Illac Arteries: A Dynamic Angiography and Machine Learning Stut Angiography and Plaque Eccentricity in Coronary Artery Disease: Dynamic Angiography, Deep Learning, a NUS-Based Study NI, Zhaorui  1075  Minh Binh Tran†  Evaluating the ability of large language in the permanent verifiable space of the pentare verifiable space eligible of the sease of the pentare verifiable space eligible of the pentare verifiable space eligible of the sease of the pentare verifiable space eligible of the situation of the sease of the pentare verifiable space eligible o				
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Rochet, Jean-christophe  1421  Amelia G Campbell†  Enhancing Synucleinopathy Detection in Preclinical Rodent Models using Surfactant-Modified Seed Amplification Assays  Rodriguez-Rivera, Gustavo  1045  Partth Suraj Kulkarni†  Mukul Agarwal*  Kian Darius Kasad*  Anish Mangla*  Aaryan Deepak Wadhwani*  Lillith Erickson*  Rogers, Abigail Keelin  1064  Mateus Rocha Ripari†  Paula Natalia Paez Monroy‡  for Seed Amplification Assays  Enhancing Synucleinopathy Detection in Preclinical Rodent Models using Surfactant-Modified Seed Amplification in Preclinical Rodent Models using Surfactant-Modified Seed Amplification in Preclinical Rodent Models using Surfactant-Modified Seed Amplification Assays  Optimizing Lookups in Modern Computer Architecture  Architecture	Pachat Joan christopho	1072	Sambita Mysoro Shantharamt	
Rochet, Jean-christophe  1421  Amelia G Campbell†  Enhancing Synucleinopathy Detection in Preclinical Rodent Models using Surfactant-Modified Seed Amplification Assays  Rodriguez-Rivera, Gustavo  1045  Partth Suraj Kulkarni†  Mukul Agarwal*  Kian Darius Kasad*  Anish Mangla*  Aaryan Deepak Wadhwani*  Lillith Erickson*  Rogers, Abigail Keelin  1064  Mateus Rocha Ripari†  Paula Natalia Natalia Paez Monroy‡  Enhancing Synucleinopathy Detection in Preclinical Rodent Models using Surfactant-Modified Seed Amplification Assays  Optimizing Lookups in Modern Computer Architecture  Architecture  Determining the Functional Domains of a Ralstonia Type III Core Effector Protein	Rochet, Jean-Christophie	10/3	Samma Mysore Shantharam	
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Rodriguez-Rivera, Gustavo  1045  Partth Suraj Kulkarni† Mukul Agarwal* Kian Darius Kasad* Anish Mangla* Aaryan Deepak Wadhwani* Lillith Erickson*  Rogers, Abigail Keelin  1064  Partth Suraj Kulkarni† Mukul Agarwal* Architecture  Architecture  Architecture  Determining the Functional Domains of a Ralstonia Type III Core Effector Protein	ĺ		·	
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Kian Darius Kasad* Anish Mangla* Aaryan Deepak Wadhwani* Lillith Erickson*  Rogers, Abigail Keelin  1064 Mateus Rocha Ripari† Paula Natalia Natalia Paez Monroy‡ Ralstonia Type III Core Effector Protein	Rodriguez-Rivera, Gustavo	1045	· ·	
Anish Mangla* Aaryan Deepak Wadhwani* Lillith Erickson*  Rogers, Abigail Keelin  1064 Mateus Rocha Ripari† Paula Natalia Natalia Paez Monroy‡  Ralstonia Type III Core Effector Protein				Architecture
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Rogers, Abigail Keelin  1064  Mateus Rocha Ripari† Paula Natalia Natalia Paez Monroy‡  Determining the Functional Domains of a Ralstonia Type III Core Effector Protein				
Paula Natalia Natalia Paez Monroy‡ Ralstonia Type III Core Effector Protein	Rogers, Abigail Keelin	1064		Determining the Functional Domains of a
			·	

Name	Presentation	Students	Title
Rojas Gutierrez, Juan Diego	1502	Stephanie Tirado Rojas†	Genetic Divergence and Signatures of Selection Between Locally Adapted Ecotypes of Arabidopsis Thaliana
Romes, Andrew Joseph	1459	Francisco Sebastiano† Nicodemus M O'Brian‡	Interactions of High Repetition Rate Subthreshold Nanosecond Pulses on Biological Cells
Rouhani, Seyedehmarzieh	1096	Dong Wang†	Design of an analog Proportional-to-Absolute- Temperature temperature sensor
Rouhani, Seyedehmarzieh	1288	Chao Min Chung†	Simulation of a Low-Power PLL for Clock Generation in SoC AFTx07+
Rouhani, Seyedehmarzieh	7045	Stanley Tzarkwai So†	A Successive-Approximation Analog-to-Digital Converter for Data Acquisition in a System-on- Chip
Rouhani, Seyedehmarzieh	7080	Dylan Swanson†	Design of a single-ended CMOS inverter ring oscillator DCO with 16-stage switched capacitor coarse tuning and 6-bit C-2C ladder fine tuning for a RISC-V system-on-chip application
Rounds, Ace	1244	Siddhant Jain† Mason Patrick Julius Levere† Myron Milad Tadros† James Thomas Pittard* Sydney Metz*	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Rounds, Ace	1249	Mason Patrick Julius Levere† Myron Milad Tadros† Siddhant Jain† James Thomas Pittard* Sydney Metz*	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Rounds, Ace	7033	Myron Milad Tadros† Mason Patrick Julius Levere† Siddhant Jain† James Thomas Pittard* Sydney Metz*	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Roy, Lipi	1028	Dewayne Eric Ballance†	Eaton and Palisades: Assessing Post-Wildfire Challenges that Plague the Community
Roy, Lipi	1045	Partth Suraj Kulkarni† Mukul Agarwal* Kian Darius Kasad* Anish Mangla* Aaryan Deepak Wadhwani* Lillith Erickson*	Optimizing Lookups in Modern Computer Architecture
Roy, Lipi	1073	Samhita Mysore Shantharam†	Protein Purification of Alpha-Synuclein Strains for Seed Amplification Assay
Roy, Lipi	1078	Kaitlyn Marie Wayne†	Evaluating Post-Fire Environmental Testing Guidance for Standing Homes: Gaps, Risks, and Recommendations
Roy, Lipi	1229	Grant Andrew Belush†	Using UTE-MRI Bound Water Maps to Predict Human Tibia Mechanical Properties via Finite Element Modeling
Roy, Lipi	1246	Nikhil Kasumarthi†	Mechanically Driven Variations in Bone Composition via FT-NIR (Fourier transform near infrared spectroscopy) for Improved Fracture Risk Assessment
Roy, Lipi	1251	Madison E Lisenko†	Colloidal Stability of Mo-containing Double Transition Metal MXenes via UV Vis-NIR Spectroscopy
Roy, Lipi	1438	Sein Kim†	Inducing Behavioral Choices in Mice by Selectively Stimulating V1 Neuronal Ensembles Using TRAP2 Mice
Roy, Lipi	1447	Ishan Gopu Nair† Lily Avery Waterman‡ Isaac Parks‡	Fabricating Nanoparticle Enhanced Membranes for Passive Membrane Dehumidification

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Roy, Lipi	1451	Tru Phong Pham†	SPR 4733: Steel Bridge Inspection, Assessment,
			Repair, and Management under FIRE
Roy, Lipi	1462	Paul Spitz†	Solution-processed CISe/CIGSe thin film solar
			cells by a low-carbon synthesis route
Roy, Lipi	7043	Aahan Bajpai†	How three indicators of depression influence
			young people
Rudakov, Grigorii Aleksandrovich	1279	Keith S Yung†	Optimization of Large-Scale DNA Tetrahedral
			Nanostructure for Enhanced Drug Delivery
			Across the Blood-Brain Barrier
Rudakov, Grigorii Aleksandrovich	1437	Sreesha Vedavalli Kidambi†	Cellular Uptake of Functionalized DNA
			Tetrahedra for in vitro miRNA Drug Delivery
Ruiz Velasquez, Jhoan Andres	1462	Paul Spitz†	Solution-processed CISe/CIGSe thin film solar
			cells by a low-carbon synthesis route
Rusch, Cooper Niles	1229	Grant Andrew Belush†	Using UTE-MRI Bound Water Maps to Predict
			Human Tibia Mechanical Properties via Finite
			Element Modeling
Sahu, Gopinath	1487	Duc Minh Hoang†	Two-phase Heat transfer Enhancement using
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Saldarriaga Ramirez, Violeta	1438	Sein Kim†	Inducing Behavioral Choices in Mice by
Januarriaga marini ez, violeta	1.00		Selectively Stimulating V1 Neuronal Ensembles
			Using TRAP2 Mice
Salem, Abdelrahman	1074	Sydney Cecelia Sobczak†	Neuron Classification for Fluorescence Lifetime
Salem, Abdellamman	1074	Sydney Cecella Sobczaki	Imaging
Salinas Castillo, Cristian Andres	1005	Maria Fernan Moreno de la Espriella†	Evaluation of Bokashi as a Suppressive Strategy
Salinas Castillo, Cristian Andres	1003	Iviaria Ferriari ivioreno de la Espriena	Against Botrytis cinerea in Tomato (Solanum
			lycopersicum) and Validation of Its
			Effectiveness Using Multispectral Sensors
Samanta Nilanian	1224	Madelyn Clair Watson†	Experimental Testing of Computationally
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			Molecules
Sangid, Michael D	7073	Allison C Renshaw†	Optimized Components with Multi-Materials
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			Predicted Enzymatic Pathways Towards Small Molecules
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Santiago Colon, Angel Noel	7035	Maxwell K Bartlett† David W Ball*	constraints on carbon selectivity during
		David W Ball	methane dehydroaromatization
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Santiago Vargas, Alex David	1079	Jack Thomas Willard†	Design of Electrically Small Dielectric Resonator
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Santiago Vargas, Alex David	1272	Wrigley Alan Starkweather†	Precise Tuning of Multi-Cavity Microwave
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Santoyo-Angulo, Valentina	1006	Andrea Yuliana Ramirez Prieto†	Determinants of Physical Activity in Latino Men
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Saraswat, Dharmendra	1214	Ekagrah Kumar†	Creating and Testing Al-Driven Educational
		Shreyans Jain‡	Support Systems for Interdisciplinary Biological
		Ha Nguyen‡	Engineering Learning
Saraswat, Dharmendra	7077	Ha Nguyen†	Implementation and Evaluation of Large
		Shreyans Jain‡	Language Model-Based Intelligent Tutoring
		Ekagrah Kumar‡	Systems in Biological Engineering Curricula
	1001	Nihar Dharmesh Shah*	
Sardana, Pranshul	1031	Wyatt Tristan Carter†	Modifying Peptide Charge to Enhance
	1005		Encapsulation in Self-Assembling Nanotubes
Sardana, Pranshul	1035	Gabriela Garcia Cardenas†	Coated in slime: the physical properties of skin
		Amelia Paige Ringor*	mucus across fish species
Sardana, Pranshul	1042	Silas U Hokanson†	Optical measurements of quantum effects in
			gaseous cesium
Sardana, Pranshul	1050	Minh An Nguyen Luu†	Physical Characterization of Indoor Dust from
			Homes in New York City, NY and West
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			Image Analysis

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Sardana, Pranshul	1071	Pranav Sanghi†	Visualizing Loss Landscapes to Understand Instability in Reinforcement Learning for Language Model Alignment
Sardana, Pranshul	1072	Darshini Shankar† Jaewoo Lee‡	Determining the Role of Histone Deacetylase Inhibitors as Enhancers of Axonal Regeneration After Spinal Cord Injury in Zebrafish
Sardana, Pranshul	1077	Maria Angelica Vaquez Hernandez†	Polymer-Nanoparticle Composite Gels to Mimic Muscle Stiffness for Cultured Meat Platforms
Sardana, Pranshul	1228	Priyank Behera†	Influence Diagrams for Robust Multi-Target Tracking
Sardana, Pranshul	1238	Jose Gutierrez†	Ultrafast Squeezed Quantum Light Generation and Measurement
Sardana, Pranshul	1244	Siddhant Jain† Mason Patrick Julius Levere† Myron Milad Tadros† James Thomas Pittard* Sydney Metz*	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Sardana, Pranshul	1245	Zhengyi Jiang†	Designing Gesture-Based Instructional Videos to Enhance Statistical Reasoning in STEM Education
Sardana, Pranshul	1249	Mason Patrick Julius Levere† Myron Milad Tadros† Siddhant Jain† James Thomas Pittard* Sydney Metz*	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Sardana, Pranshul	1259	Heather Murillo† Ethan Patrick Connolly*	Characterizing Sulfur Speciation and Inorganic Content in Landfill Leachate Using Ion Chromatography
Sardana, Pranshul	1266	David Rubin†	Characterization and Operation of Inductively Coupled Plasma Neutralizer for Electric Propulsion Applications
Sardana, Pranshul	1268	Mary Jane Sayler†	Assessing Reconstitution of Lyophilized Formulations in Cake and Bead Forms using LED Light Transmission
Sardana, Pranshul	1433	Xavier L Ish†	Degradation of Thermal Interface Materials in Submerged Conditions
Sardana, Pranshul	1445	Doruk Alp Mutlu†	Expanding Specification Capabilities of a Gradual Verifier with Pure Functions
Sardana, Pranshul	1457	Alexander Rizk†	Material Characterization of Lithium-Ion Batteries and Fire Suppression in Thermal Runaway Events
Sardana, Pranshul	1458	Javier S Robinson†	Constructing Spacecraft Trajectories in the Earth-Moon Region using Adaptive Trajectory Design Software
Sardana, Pranshul	7003	Aidan Hirsch†	Classification of Electrochemical Impedance Spectroscopy Components in Ultramicroelectrode Arrays
Sardana, Pranshul	7012	Damian Munoz† William David Boulton‡	Ensuring Trusted Builds Through Transparent Origins: A Tool for Visualizing Provenance and Causal Relationships in OSS Software Supply Chains
Sardana, Pranshul	7027	Anna M Kiley†	Changes in the Gut Microbial Community of Mice After Long-Term Antibiotic Treatment: Effects of Sex, Treatment, and Treatment Duration
Sardana, Pranshul	7031	Aarya Gajendra Sontakke†	Advanced Radiomics for Early Detection of Bone Fragility in Women Undergoing Bariatric Surgery and GLP-1 Receptor Agonist Treatment for Rapid Weight Loss
Sardana, Pranshul	7047	Laura Sofia Perez†	Temporal variations in sublimation and their relation with ridge formation in Martian midlatitude ice scarps

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Sardana, Pranshul	7058	Hamdan Ashfaq†	Imaging and Machine Learning of Defects in Semiconductors
Schaekel, Isabelle Kathryn	7075	Chantelle April Miller†	Altering a Biobased Epoxy via Fillers to Improve Adhesion to Wood
Schellhase, Ellen M	1506	Mia M Yates†	Patient Refused Doses of Critical Medications - St. Bartholomew
Scher, Allison Nobuko	1287	Jianing Xue†	Hybrid metamaterial designs with tunable physical properties via laser patterning
Schulte, Jan-Frederik	1200	Ana Sofia Calle Munoz† Anna G. Klupshas*	Machine Learning Optimization & Sensor Characterization for Advanced Particle Detection Systems
Schultz, Kelly	1077	Maria Angelica Vaquez Hernandez†	Polymer-Nanoparticle Composite Gels to Mimic Muscle Stiffness for Cultured Meat Platforms
Sciascia Borlina, Caue	1267	Hiya Samanta† Henry J Lee* Siya Chirag Jariwala*	Co-designing Student VR Experiences for Geology Course Fieldtrips
Sciascia Borlina, Caue	7015	Brianna Petruccelli†	Investigating the Role of Lightning in Remanent Magnetization on the Surface of Mars
Scott, Alicia Nicole	1073	Samhita Mysore Shantharam†	Protein Purification of Alpha-Synuclein Strains for Seed Amplification Assay
Scott, Alicia Nicole	1421	Amelia G Campbell†	Enhancing Synucleinopathy Detection in Preclinical Rodent Models using Surfactant- Modified Seed Amplification Assays
Scrudders, Kevin Lynn	7067	Quinte Robinson†	Actin Remodeling in Threshold Setting for T cell Degranulation
Sebata, Lore N	1002	Maria Paula Garcia Molina†	MAGIC-Derived Genotyping and QTL Mapping in Vigna unguiculata: Enhancing Quality Traits and Tannin Characterization
Seetharam, Arun S	9003	Abigail Lin† Sadra Williams‡	Empowering Research: Easy-to-Use Bioinformatics Workflow Templates
Seetharam, Arun S	9006	Sadra Williams† Abigail Lin‡	Empowering Research: Easy-to-Use Bioinformatics Workflow Templates
Sen, Shreyas	1448	Khanh Nam Nguyen†	Human Body Communication IC & System Design
Sepulveda, Maria Soledad	1403	Amber Grace Hitchins†	Methodology for Environmental Toxicology: Assessing Feeding and Rearing Strategies in Largemouth Bass (Micropterus nigricans) Larvae
Shah, Amisha	1038	Lilyana Gundayao†	Life cycle assessment of integrated biochemical and physicochemical processes aimed at recovering critical metals from municipal solid waste in landfills
Shah, Amisha	1039	Juliana Gutierrez†	Potential enhanced degradation of contaminants when reacting with free chlorine adsorbed onto media used in tap water pitcher filters
Shah, Amisha	1048	Oliver Yichi Li†	Investigating Microbes and Their Connection to Metals in Municipal Solid Waste Landfill Leachate with Simulated Bioreactors
Shah, Amisha	1233	Ethan Patrick Connolly† Heather Murillo*	Characterizing Inorganic Ions in Municipal Solid Waste Landfill Leachate to Improve Processes to Recover Critical Metals
Shah, Amisha	1259	Heather Murillo† Ethan Patrick Connolly*	Characterizing Sulfur Speciation and Inorganic Content in Landfill Leachate Using Ion Chromatography
Shaikh, Mearaj Ahmed Abdul Jabb	1015	Justin Ray Walder†	Engineering flux through the MVA Pathway to Enhance Terpenoid Synthesis in Tomato
Shaikh, Mearaj Ahmed Abdul Jabb	1211	Anna Alden Fisher†	Harnessing the MVA pathway and IPP transporter to modulate MVA/MEP cross-talk and terpenoid flux in Solanum lycopersicum

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Shaltouki Rizi, Maliheh	1219	Tina Schroedel†	Understanding the Role of Genes in Wheat
			Root Size
Shan, Nannan	9003	Abigail Lin†	Empowering Research: Easy-to-Use
		Sadra Williams‡	Bioinformatics Workflow Templates
Shan, Nannan	9006	Sadra Williams†	Empowering Research: Easy-to-Use
Shao, Gang	1411	Abigail Lin‡ Anna Ospina Bedoya†	Bioinformatics Workflow Templates  Web Crawlers to Enrich Educational Content
Silao, Galig	1411	Анна Оѕрија вейбуат	from External Sources
Shao, Jinyuan	1009	Yuexin Jiang†	Building a Digital Library of 3D Point Cloud for
			Deep Learning-based Tree Species
			Identification
Sharma, Akanshu	1046	Alex Ertang Kuo†	Parametric Study on Development Length for Post-Installed Rebar
Sharma, Akanshu	7018	Priyanka Ghadiyaram†	Non-Linear Spring Modeling of Anchorages in
			Concrete
Sharma, Chayan	1094	Lucas Riley Hendershot†	Azithromycin Drug Resistance in Acanthamoeba
Sharma, Shivam	1451	Tru Phong Pham†	SPR 4733: Steel Bridge Inspection, Assessment,
	1266	D :101: +	Repair, and Management under FIRE
Shashurin, Alexey	1266	David Rubin†	Characterization and Operation of Inductively Coupled Plasma Neutralizer for Electric
			Propulsion Applications
She, Yu	1432	Sijie Huang†	Design and Development of a Multimodal
Sile, ru	1102	onic ridding.	Underwater Robot
Shen, Jingqiao	1449	Cillian Norton†	Innovative Immunotherapy for Glioblastoma
			using hPSC-derived CAR-Neutrophils
Shira, Brison Avery	7054	Alana Kathryn El Thomas†	Hand in Hand: Kinetics of Chiral Cluster
			Formation in Serine Octamers
Shoaf, Trevor Jaan	7014	Noah Strawhacker†	A Physiologically-Based Pharmacokinetic Model of Inhaled Rifampin for Treatment of
			Tuberculosis
Shukle, Catherine Jean	9033	Suraj Chigati†	The Cognitive Benefits of Video Games for Kids
Shukle, Catherine Jean	9043	Ram Tewari†	Should Governments Regulate the Use of Artificial Intelligence in Critical Infrastructure?
Siegmund, Thomas H	1068	Kaley Roe <sup>†</sup>	Allometric scaling of macro-to-micro ratios of
Sieginana, momas m	1000	Raicy Noc.	geometrical bone properties
Siegmund, Thomas H	1247	Brian Arild Kelly†	Finite Element Method Characterization of
		,	Human Radius Bone Strength
Simpson, Garth J	1302	Declan Harrison Vasil†	Origins of Second Harmonic Generation
		Alexander Higgins*	Circular Dichroism / Circular Intensity
			Difference (SHG-CD) Microscopy
Simpson Crusafon, Pau	1063	Rafael Riesco Risco†	Carbon composite support structure with
			integrated thermal management for time of flight detector for ePIC- EIC
Sinfield, Joseph V	1450	Aarav Pasad†	A Systematic View of Extant Material
			Sustainability
Singh, Jay	1458	Javier S Robinson†	Constructing Spacecraft Trajectories in the
			Earth-Moon Region using Adaptive Trajectory
			Design Software
Singh, Richa	1099	Nina Rose Hall†	Listening Through the Noise: How a Frog-Biting
Singh, Richa	1106	Gloria Yaneth Rivas†	Mosquito Finds Hosts in Urban Environments  Examining polyandry in a Uranotaenia lowii
Singh, Satvinder	7013	Kovid Tandon†	Topology-Hiding Computation Tolerating Fail-
2	1,323	To Tandon	Stop Adversaries
Sivakumar, Samskrithi	7092	Joshua Paik†	Improving Echocardiographic Aortic Aneurysm
		Felix Dinklage‡	Assessment in Marfan Syndrome Patients
		Ahhyun Lee‡	
Slizovskiy, Ilya	1258	Rebekah E Mou†	Comparing different machine learning methods
			for AMR gene class prediction after FMT
			treatment

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Slizovskiy, Ilya	7087	Sakesh Andhavarapu†	Fecal microbiota transplantation therapy alters resistome burden and horizontal transfer potential in a disease-dependent manner
Smith, Reed Michael	1018	Nathalia Liu De Restrepo†	Developing an understanding of the structural basis of VceC induced UPR via the analysis of the VceC-HYPE complex
Solorio, Luis	1237	Angelica Sofia Gonzalez-Ng† Maria Macias* Eliza Louise Thurs*	Investigating Breast Cancer Cell Mechanical Memory in Relation with Lung Respiration Rates Using a High-Throughput Magnetic Actuation Platform
Solorio, Luis	1465	Eliza Louise Thurs† Angelica Sofia Gonzalez-Ng‡ Maria Macias‡	Investigating the Response of Human Lung Fibroblasts to the Mechanical Strain of Respiration
Solorio, Luis	7093	Maria Macias† Angelica Sofia Gonzalez-Ng‡ Eliza Louise Thurs‡	A DNA Damage Analysis of Breast Cancer Cells Under Cyclic Mechanical Actuation
Solorio, Luis	9023	Laine Chapman†	Microfluidic Analysis of Nanoparticle Binding in the Subarachnoid Space
Sommer-Kohrt, Kylie	1289	Connor Bradley Frey†	Reinforcement Learning Environment for Finding Counter-UAV Surveillance Strategies
Son, Steven F	1457	Alexander Rizk†	Material Characterization of Lithium-Ion Batteries and Fire Suppression in Thermal Runaway Events
Song, Yingru	1092	Ammar M Mukadam†	Computational Approaches to Thermal Characterization of Materials in IC Packaging
Specht, Aaron James	1280	Kaden Bowers† Michael K Lau†	XRF-Based Identification of Buried Lead Service Lines: A Non-Destructive Alternative to Excavation
Specht, Aaron James	1284	Michael K Lau† Kaden Bowers†	XRF-Based Identification of Buried Lead Service Lines: A Non-Destructive Alternative to Excavation
Spray, Emily	1014	Anya Jolee Piarowski†	Identification of HIF1a interacting proteins
Spray, Emily	1015	Justin Ray Walder†	Engineering flux through the MVA Pathway to Enhance Terpenoid Synthesis in Tomato
Spray, Emily	1208	Joniyah Renee Alford†	Effects of Regenerative Agriculture on Urban Soil Health
Spray, Emily	1209	Mark T Crooks†	Understanding the Ecology and Physiology of 'Ohi'a Lehua Trees in the Face of Rapid 'Ohi'a Death?
Spray, Emily	1211	Anna Alden Fisher†	Harnessing the MVA pathway and IPP transporter to modulate MVA/MEP cross-talk and terpenoid flux in Solanum lycopersicum
Spray, Emily	1212	Carolyn Jia†	Investigating the role of Set3 and Set4 in azole resistance in Candida glabrata
Spray, Emily	1213	Amelia Johnson†	Drought Stress in Maize
Spray, Emily	1214	Ekagrah Kumar† Shreyans Jain‡ Ha Nguyen‡	Creating and Testing Al-Driven Educational Support Systems for Interdisciplinary Biological Engineering Learning
Spray, Emily	1215	Mallory A Luse† Lillian Grace Maldia*	Analyzing Biofilm Formation on PVC-coated Magnetic Beads for High-throughput Microbiome Applications
Spray, Emily	1216	Laurie Lei McIntyre† Elysia Marlena Uggen‡ Joshua T Stephenson*	Investigating the role of Remodelers and Modifications of Chromatin in Gibberellin- Dependent Responses in Arabidopsis thaliana
Spray, Emily	1217	Tanvi Karthika Nadimpalli†	Examining the Effects of Candida albicans and Candida glabrata Metabolites on Cell Proliferation in Gastric Cancer Cells
Spray, Emily	1218	Niah L Patel†	Sanitization of Seeds -A Mechanism for Produce Growers to Reduce the Risk of Foodborne Pathogen Contamination of Fresh Produce

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Spray, Emily	1219	Tina Schroedel†	Understanding the Role of Genes in Wheat
			Root Size
Spray, Emily	1221	Jacob R Streeter†	Effects of Mediator of Paramutation 1 on Embryo Death
Spray, Emily	1222	Ethan C Tuttle†	A conserved function for Cdc14 phosphatases in fungal cell wall homeostasis
Spray, Emily	1223	Blaine Andrew Wagner†	The Role of PKL and INO80 Chromatin Remodelers in Apical Hook Formation in Arabidopsis thaliana
Spray, Emily	1224	Madelyn Clair Watson†	Experimental Testing of Computationally Predicted Enzymatic Pathways Towards Small Molecules
Spray, Emily	1297	William Lee Patton†	The correlation between osmotic adjustment and yield stability in drought-stressed corn (Zea mays L.)
Stevens, William Henry	1008	Devansh Khandelwal†	A Deep Learning Framework with XAI for Atmospheric Blocking Detection and Interpretation
Subah, Mohseu Rashid	7031	Aarya Gajendra Sontakke†	Advanced Radiomics for Early Detection of Bone Fragility in Women Undergoing Bariatric Surgery and GLP-1 Receptor Agonist Treatment for Rapid Weight Loss
Subbarayan, Ganesh	1285	Rachel Christine Quisil Ordiales† Diego Jimenez Rivera† Ian Strachan†	High Temperature Solders for Aerospace and Defense
Subbarayan, Ganesh	1452	Son Quoc Son Phan† Timothy P Malloy‡	Heterogeneous Integration/Advanced packaging
Subbarayan, Ganesh	7089	Timothy P Malloy† Son Quoc Son Phan‡	Solder Alloy Characterization for Microelectronic Reliability Insights (SCALE HI/AP)
Subramanian, Ramaswamy	1019	Jasmine McKinnie†	F3 Nanobody Purification
Suhermanto, Mukhamad	7026	Lamiya Sajidbhai Laxmidhar†	CrayonClassifier: Detecting Emotional Cues in Children's Art with Classical Machine Learning Models
Sun, Su	7011	Christina Zhang†	iDiF Undergraduate Summer Research Program: Drone Under-Canopy Forest Survey
Sundaram, Shreyas	1453	Juan Andres Puyo Montealegre†	Epidemic Spike Prediction Using Networked Compartmental Model Dynamics and LASSO/Ridge Regression Estimation
Surianarayanan, Nishanth	1203	Juan Andres Gil Duque†	Fluid-structure interactions in non- axisymmetric perivascular spaces
Surowiec, Rachel Kathleen	1229	Grant Andrew Belush†	Using UTE-MRI Bound Water Maps to Predict Human Tibia Mechanical Properties via Finite Element Modeling
Surowiec, Rachel Kathleen	1246	Nikhil Kasumarthi†	Mechanically Driven Variations in Bone Composition via FT-NIR (Fourier transform near infrared spectroscopy) for Improved Fracture Risk Assessment
Surowiec, Rachel Kathleen	1434	Sidh Jain†	Implementation and Validation of a Robust HR- pQCT Time-Lapse Imaging Pipeline for Quantifying Bone Remodeling
Surowiec, Rachel Kathleen	7031	Aarya Gajendra Sontakke†	Advanced Radiomics for Early Detection of Bone Fragility in Women Undergoing Bariatric Surgery and GLP-1 Receptor Agonist Treatment for Rapid Weight Loss
Suter, Daniel	1072	Darshini Shankar† Jaewoo Lee‡	Determining the Role of Histone Deacetylase Inhibitors as Enhancers of Axonal Regeneration After Spinal Cord Injury in Zebrafish
Suter, Daniel	1306	Gaurangi Yadav†	Traction Force Microscopy to Study Mechanosensing of Neuronal Growth Cones

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Swathibanu, Devahdhanush	9032	Peter Joseph Bradshaw†	Supercritical Carbon Dioxide Thermal Cycle
Vijayaraju		Ella Renee Moss‡	Design and Fabrication
		Emma Loretta Hansen‡	
		Arnav Basu‡	
		Adiba Alamgir Mrittika‡	
Sydnor, Sandra B	9035	Mallory Hersh†	Inspiring research in Advanced High School
	1005	0 0 50 00 0	Populations: Using the Lean Canvas Approach
Tackett, Brian Michael	1085	Charity E Smith†	Electrochemical ethane dehydrogenation using
		Ally Guo‡	fabric-templated 3D cathodes for CO2
Tackett, Brian Michael	7049	Ally Guo†	reduction  Electrocatalyst development for decarbonized
Tackett, Bridii Michael	7049	Charity E Smith‡	solid oxide electrochemical ethane
		Chartty L Similif	dehydrogenation
Talarico, Ernest Francis	1025	Phuong Ba†	RELATION BETWEEN LOCATION AND SEVERITY
raidited, Efficist Francis	1025	Thuy Nguyen†	OF RIGHT CORONARY ARTERY LESIONS ON
		Linh Luu†	CORONARY ANGIOGRAPHY
		Thuy Truong†	
		Hoang Ly†	
Talarico, Ernest Francis	1026	Phuong Ba†	Association Between Systolic Blood Pressure
		Vinh Lam†	Levels and Lesion Distribution in the Right
		Khanh Le†	Coronary Artery
		Barun Agarwalla†	
		Quan Nguyen†	
Talarico, Ernest Francis	1098	Uyen Dang†	Retrograde Distal End-Diastolic Flow as a
		Thy Le†	Marker for Severe Right Coronary Artery
		Tri Nguyen†	Occlusive Lesions on Invasive Coronary
		Khoa Tran†	Angiography
		Thai Nguyen†	
Talarico, Ernest Francis	1100	Linh Luu†	Correlation Between Lesion Location and
		Phuong Ba†	Timing of Lesion Appearance During the
		Uyen Dang†	Cardiac Cycle in the Right Coronary Artery on
		Ngoc Nguyen†	Angiography
		Viet Vo†	
Talarico, Ernest Francis	1101	Ngoc Nguyen†	Differences in High-susceptible Lesion Location
		Linh Luu†	on The Right Coronary Artery and Reverse Flow
		Thy Le†	Between Normotensive and Elevated Systolic
		Viet Vo†	Blood Pressure Populations
		Thai Nguyen†	
Talarico, Ernest Francis	1102	Thuy Truong†	Impact of Cholesterol Control on Coronary
		Uyen Dang†	Lesion Development in Flow-Disturbed
		Tri Nguyen†	Segments Identified by Coronary Acoustic
		Vinh Lam†	Action Map
		Quang Hoang†	
Talarico, Ernest Francis	1105	Viet Vo†	Association Between 1R Lesion Severity in the
		Linh Luu†	Right Coronary Artery and Cardiovascular Risk
		Ngoc Nguyen†	Factors: Implications for Medication
		Vo Duong†	Management
Talavias Funcia Funcia	1201	Quan Nguyen†	Freith alial Marshuse a Discountier Drives Varius
Talarico, Ernest Francis	1291	Seth Crisologo Gozo† Alexander Josef Shemen†	Epithelial Membrane Disruption Drives Vaping-
Talavias Francis	1202		Induced Lung Injury
Talarico, Ernest Francis	1293	Huu Tuan Kiet Hoang†	Post-Pandemic Cardiology: Exploring The
			Association Between History Of Covid-19 Infection And Cardiovascular Conditions
Talarico, Ernest Francis	1296	Duong Hoang Anh Nguyen†	SUPERIOR OF ARTERIAL PHASE FRAME COUNT
raianco, Linest Francis	1230	Duong noting Anni nguyeni	IN QUANTIFYING THE RESTORATION OF
			CORONARY BLOOD FLOW OF THE RIGHT
			CORONARY BLOOD FLOW OF THE RIGHT
			SYNDROME BY A DYNAMIC ANGIOGRAPHY
			AND MACHINE LEARNING ANALY
Talarico, Ernest Francis	1298	Dang Pham†	Three Months Follow-up Patients After Acute
raidico, Erriest Francis	1230	Dang main	-
. a.a. 100) Efficac Fruitois	1233	Sung i num.	Coronary Syndrome

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Talarico, Ernest Francis	1301	Jacob Christophe Sues†	Principles of Fluid Mechanics Applied to
		Sarah Louise Sues†	Dynamic Angiography in the Investigation of Cavitation in Coronary Arteries – New
			Discoveries and Perspectives
Talarico, Ernest Francis	1303	Cao Danh Vo†	Impact of Body Mass Index on Clinical
			Outcomes of Myocardial Infarction in Elderly
Talarias Francis	1205	Natour Wiledove det	Vietnamese Patients
Talarico, Ernest Francis	1305	Mateusz Wlodarczyk† Dhruva Magesh†	A Case of Jimson Weed Poisoning in a 15-Year- Old Boy
Talarico, Ernest Francis	1486	Chan Huy Ha†	What are the ideal systolic and diastolic blood
			pressure which do not injure the intima of iliac
			and coronary arteries?
Talarico, Ernest Francis	1489	Do Phuong Vy Huynh†	THE COANDA EFFECT CAUSED TURBULENCE
		Bao Lam Phan‡	AND DAMAGED THE INTIMA AT THE MIDDLE
Talavias Funast Funasis	1402	Dhuana Anh Lat	CORONARY SEGMENT
Talarico, Ernest Francis	1493	Phuong Anh Le†	Prolonged Arterial Phase as a Cause of Chest Pain in Takotsubo Cardiomyopathy: A Dynamic
			Angiography and Artificial Intelligence-Based
			Analysis
Talarico, Ernest Francis	1495	Minh Thien Pham†	Morphological Characteristics of Apical Left
	1.55		Ventricular Thrombi Associated with Embolic
			Risk and Stroke
Talarico, Ernest Francis	1496	Truc Quynh Pham†	Management of Left Main Coronary Artery
·		,	Disease in Elderly Patients in Vietnam
Talarico, Ernest Francis	1497	Bao Lam Phan†	Defining Ideal Blood Pressure Thresholds to
		Do Phuong Vy Huynh‡	Prevent Retrograde Flow and Turbulence in
			Coronary and Iliac Arteries: A Dynamic
			Angiography and Machine Learning Study
Talarico, Ernest Francis	1504	Ha Khanh Linh Vo†	Blood Flow Heterogeneity and Plaque
			Eccentricity in Coronary Artery Disease: A
			Dynamic Angiography, Deep Learning, and
T	7040		IVUS-Based Study
Taleyarkhan, Rusi P	7042	Pranav Mahesh Kuruba†	Detection of Extracted Actinides from Water
		Everett John Nally*	Based Solutions Using Tensioned Metastable Fluid Detector Sensor Technology
Tan, Lin	1075	Minh Binh Tran†	Evaluating the ability of large language models
Tall, Lill	10/3	IVIIIII BIIIII II alii	to generate verifiable specifications in VeriFast
Tanaka, Yuto	1253	Adina Ioana Margineantu†	Design of Reconfigurable Antenna Using
Tanaka, Tato	1233	Jamie Chanadol Henson‡	Origami Patterns
Tanay, Ben Arie	9020	Pierce Yungjoon Johnson†	DIGITALIZATION OF STARS FOR WIDESPREAD
•		3,	USE
Tay, Louis	1402	Katherine Sophia Chiparus†	Unveiling Food Waste Patterns at Purdue
			University
Taylor, Sandra D	1477	Emily Elizabeth Rastovski†	Mechanical Testing of Equine Laminae Samples
Tegtmeyer, Matthew Thomas	1422	Zhiyuan Chen†	Cardiomyocyte Differentiation of hiPSCs and 8p
			Chromosome Mutation
Tegtmeyer, Matthew Thomas	1471	Lucille Mattingly Whyman†	Morphological Effects of Clozapine on
Tocini Bocoguini Buuna	1060	Cicall Natalia Ramara Dalas da t	Astrocytes  Effects of Heat Stress on Blood Pressure
Tesini Roseguini, Bruno	1069	Gisell Natalia Romero Delgado†	Effects of Heat Stress on Blood Pressure Regulation and Cardiac Baroreflex Function
Tesmer, John	1255	Julia Rose Millikin†	Expression and Purification of the G Protein
resilier, somi	1233	Julia 103C Williami	Subunit Galphaq in E. Coli
Tesmer, John	7004	Phoebe G Smock†	Structural and Functional Characterization of
			Highly Potent and Selective G Protein-Coupled
			Receptor Kinase 5/6 Drug-like Inhibitors
Thakkar, Dutt Jagdish	7022	Eduard Alexis Ruiz Raba†	Impact of Disruption in Semiconductor Supply
_			Chain with a Focus on Electric Vehicles in the
			U.S.

Name	Presentation	Students	Title
Thakkar, Dutt Jagdish	7023	Daniela Katherin Soriano Hernandez†	Forecasting U.S. Electricity Demand Using Supervised Machine Learning: A Multivariable Approach with Emphasis on Environmental Drivers and Electric Vehicles
Thakur, Anupma	1251	Madison E Lisenko†	Colloidal Stability of Mo-containing Double Transition Metal MXenes via UV Vis-NIR Spectroscopy
Thakur, Anupma	7006	Pratyush Chettri† Aditi Akella*	Optimization of Nb4C3Tx MXene Synthesis for Improved Yield and Flake Quality
Thompson, David	1269	Hayden Schneider†	Cyclodextrin Derivative Synthesis for Use in Formation of Layer-By-Layer Elastin Like Polypeptide Nucleic Acid Self Assembling Nanoparticles.
Thompson, David	1275	Peyton E Tanoury†	Synthesis of Cationic Alpha-Cyclodextrin to Aid in Layer-by-Layer Elastin-like Polypeptide Nucleic Acid Nanoparticle Materials
Thompson, Katherine Nina	7043	Aahan Bajpai†	How three indicators of depression influence young people
Tien, Jia-Huei	7078	lan Strachan†	Using ABAQUS to Simulate Nanoindentation on Bismuth-Modified SAC305 Solder Alloys
Titus, Michael	1285	Rachel Christine Quisil Ordiales† Diego Jimenez Rivera† Ian Strachan†	High Temperature Solders for Aerospace and Defense
Toca Diaz, Vivian Lizeth	1243	Amelia C Jaffe†	Characterizing the Composition Shift of R454C with and without Lubricants using Gas Chromatography
Todd, Andrew Charles	1403	Amber Grace Hitchins†	Methodology for Environmental Toxicology: Assessing Feeding and Rearing Strategies in Largemouth Bass (Micropterus nigricans) Larvae
Torres Arias, Santiago	1232	William David Boulton† Damian Munoz‡	Securing the Software Supply Chain With Trusted Build Systems
Torres Arias, Santiago	7012	Damian Munoz† William David Boulton‡	Ensuring Trusted Builds Through Transparent Origins: A Tool for Visualizing Provenance and Causal Relationships in OSS Software Supply Chains
Trask, Jared Franklin	7019	Ana Maria De La Torre Sanchez†	Optimizing ARU Deployment: Effects of Sampling Intensity and Spatial Arrangement on Wild Bird Biodiversity Detection Around Poultry Facilities
Tremblay, Marissa	1501	Hannah Nicole Tharrington†	Constraining potential helium sources in magnetite, with applications to helium-based geo- and thermochronology
Troy, Cary D	1464	Ethan Scott Streckfuss†	Predicting St Joseph River Plume Behavior Using Satellite-Derived Observations and Hydro-Meteorological Measurements
Troy, Cary D	7020	Maggie McLeod†	Automated Monitoring and Prediction of Saginaw Bay Shoreline Response using Satellite Imagery
Tsaveas, Anastasia	1254	Valentina Marin†	Manufacturing Fiber Reinforced Composites by Vacuum-Assisted Resin Transfer Moulding Infusion and Characterization of Elium 191 XO/SA Resin Using DSC
Tun, Khin Thandar	1294	Nachiket Magesh†	Combined Microbial Fuel Cell–Hydroponic System for Renewable Energy Generation and Wastewater Treatment
Ukkusuri, Satish V	9014	Malhar Sushil Jadhav†	Foraging Behavior and Social Influence in Dynamic Traffic
Ulate, Christopher Antonio	1257	Priya Mishra† Kyung Jun Lee‡ Manaswini Singh‡	Fabrication of STM-Compatible Hexagonal Boron Nitride/Graphite Devices for Quantum Defect Studies

Name	Presentation	Students	Title
Unnikrishnan, Arjun	7086	Adriana Maria Velasquez Medina†	Synthesis and Characterization of the TbCr6Ge6 Kagome Magnet
Unuigbokhai, Ayomide Olohigbe	1471	Lucille Mattingly Whyman†	Morphological Effects of Clozapine on Astrocytes
Usimaki, Alexandra Ines Johan	1477	Emily Elizabeth Rastovski†	Mechanical Testing of Equine Laminae Samples
v, Sasikiran	9040	Suhani Mathur†	Hybrid Parameter Estimation of PMSMs Using Neural Learning and First-Principles Modeling
Vadlamudi, Venkata Kalyan	1286	Evan E Tuckley†	Testing the capabilities of two-step absorption nanolithography for meta-lens structures
Varma, Amit	1451	Tru Phong Pham†	SPR 4733: Steel Bridge Inspection, Assessment, Repair, and Management under FIRE
Vaughn, Matthew William	1457	Alexander Rizk†	Material Characterization of Lithium-Ion Batteries and Fire Suppression in Thermal Runaway Events
Vayrynen, Jukka Ilmari	1013	Grayson Welch†	Classifying Hamiltonians by time evolution of slater states
Vega, Fernando Josue	7055	Rana Yuvraj† Bach Son Nguyen‡	O-Vacancy Perspective to Explain Imprint in Metal-HZO-Metal Capacitors via In-Situ Photoluminescence
Verma, Akshat	1256	Mahira Mim† Bryn R Goldstein*	Enhancing Carbon-Negative Cement Composites with Surface-Modified Cellulose Nanomaterials
Verma, Akshat	1429	Bryn R Goldstein† Mahira Mim*	Cellulose Cement Composite (C3) for Carbon Negative Construction
Viji Elango, Arval	1215	Mallory A Luse† Lillian Grace Maldia*	Analyzing Biofilm Formation on PVC-coated Magnetic Beads for High-throughput Microbiome Applications
Vilela Leao, Luis Henrique	7086	Adriana Maria Velasquez Medina†	Synthesis and Characterization of the TbCr6Ge6 Kagome Magnet
Villarreal, Cameron Xavier	7027	Anna M Kiley†	Changes in the Gut Microbial Community of Mice After Long-Term Antibiotic Treatment: Effects of Sex, Treatment, and Treatment Duration
Volkening, Alexandria	1418	Isabel Sofia Bejarano Molina†	What Drives Pattern Formation in Ferns? A Mathematical Modeling Approach
Vu, Loc	1293	Huu Tuan Kiet Hoang†	Post-Pandemic Cardiology: Exploring The Association Between History Of Covid-19 Infection And Cardiovascular Conditions
Vu, Loc	1296	Duong Hoang Anh Nguyen†	SUPERIOR OF ARTERIAL PHASE FRAME COUNT IN QUANTIFYING THE RESTORATION OF CORONARY BLOOD FLOW OF THE RIGHT CORONARY ARTERY IN ACUTE CORONARY SYNDROME BY A DYNAMIC ANGIOGRAPHY AND MACHINE LEARNING ANALY
Vu, Loc	1298	Dang Pham†	Three Months Follow-up Patients After Acute Coronary Syndrome
Vu, Loc	1303	Cao Danh Vo†	Impact of Body Mass Index on Clinical Outcomes of Myocardial Infarction in Elderly Vietnamese Patients
Vu, Loc	1486	Chan Huy Ha†	What are the ideal systolic and diastolic blood pressure which do not injure the intima of iliac and coronary arteries?
Vu, Loc	1489	Do Phuong Vy Huynh† Bao Lam Phan‡	THE COANDA EFFECT CAUSED TURBULENCE AND DAMAGED THE INTIMA AT THE MIDDLE CORONARY SEGMENT
Vu, Loc	1493	Phuong Anh Le†	Prolonged Arterial Phase as a Cause of Chest Pain in Takotsubo Cardiomyopathy: A Dynamic Angiography and Artificial Intelligence-Based Analysis

Name	Presentation	Students	Title
Vu, Loc	1495	Minh Thien Pham†	Morphological Characteristics of Apical Left Ventricular Thrombi Associated with Embolic Risk and Stroke
Vu, Loc	1496	Truc Quynh Pham†	Management of Left Main Coronary Artery Disease in Elderly Patients in Vietnam
Vu, Loc	1497	Bao Lam Phan† Do Phuong Vy Huynh‡	Defining Ideal Blood Pressure Thresholds to Prevent Retrograde Flow and Turbulence in Coronary and Iliac Arteries: A Dynamic Angiography and Machine Learning Study
Vu, Loc	1504	Ha Khanh Linh Vo†	Blood Flow Heterogeneity and Plaque Eccentricity in Coronary Artery Disease: A Dynamic Angiography, Deep Learning, and IVUS-Based Study
Waghmare, Dheeraj Govindrao	1046	Alex Ertang Kuo†	Parametric Study on Development Length for Post-Installed Rebar
Waghmare, Dheeraj Govindrao	7018	Priyanka Ghadiyaram†	Non-Linear Spring Modeling of Anchorages in Concrete
Wainwright, Dylan Kenji	1035	Gabriela Garcia Cardenas† Amelia Paige Ringor*	Coated in slime: the physical properties of skin mucus across fish species
Wakita, Shigeru	7036	Gregorio Lince†	Formation of silicate spherules in impact produced vapor plumes
Wang, Guanchun	1233	Ethan Patrick Connolly† Heather Murillo*	Characterizing Inorganic Ions in Municipal Solid Waste Landfill Leachate to Improve Processes to Recover Critical Metals
Wang, Guanchun	1259	Heather Murillo† Ethan Patrick Connolly*	Characterizing Sulfur Speciation and Inorganic Content in Landfill Leachate Using Ion Chromatography
Wang, Haiyan	1287	Jianing Xue†	Hybrid metamaterial designs with tunable physical properties via laser patterning
Wang, Jingbo	1274	Sarthak Tandon†	Provably Correct Quantum Circuit Cuttin
Wang, Jingkun	1427	Hermes Heng-yu Fu†	Real-time System for Nurses Situation Awareness and Team Communication Assessment
Wang, Lei	7001	Jocelyn Yang†	In situ conversion of carboxylic acids, alcohols, and amines to aldehydes for DNA-encoded library construction
Wang, Lei	1008	Devansh Khandelwal†	A Deep Learning Framework with XAI for Atmospheric Blocking Detection and Interpretation
Wang, Lei	1455	Chengxun Ren†	Graph-Based Learning for Weather Forecasting Using Data-Driven Approaches
Wang, Mengen	9015	Samuel A Azzarello†	Electronic and Thermal Properties of Cs2Ti1- XZrXI6 Vacancy-Ordered Double Perovskites
Wang, Yirou	1215	Mallory A Luse† Lillian Grace Maldia*	Analyzing Biofilm Formation on PVC-coated Magnetic Beads for High-throughput Microbiome Applications
Wang, Ziyu	1416	Ben N Aaron† Mike Xiao‡	Failure modes of thin film peeling under peridynamics and cohesive zone models
Wang, Ziyu	7059	Mike Xiao† Ben N Aaron‡	Peridynamics Thin Film Peeling
Ward, Mark	1244	Siddhant Jain† Mason Patrick Julius Levere† Myron Milad Tadros† James Thomas Pittard* Sydney Metz*	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Ward, Mark	1249	Mason Patrick Julius Levere† Myron Milad Tadros† Siddhant Jain† James Thomas Pittard* Sydney Metz*	Automation Methods for Gamma Ray Spectroscopy and Data Analysis

Name	Presentation	Students	Title
Ward, Mark	7033	Myron Milad Tadros† Mason Patrick Julius Levere† Siddhant Jain† James Thomas Pittard* Sydney Metz*	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Ward, Matthew Peter	1242	Tom Long Huynh†	A Digital Health Solution to Mitigate Overuse Injury Risk in Elite Platform and Springboard Diving
Ward, Matthew Peter	7029	Mansi Abhijit Dhamne†	Health Persona: An Al-Powered Multimodal Health Platform for Real-Time Symptom Analysis and Personalized Insights on hEDS
Ward, Matthew Peter	7082	Monique Watson†	Utilizing Wearable Technology to Improve POTS Diagnostic Testing
Warsinger, David	1447	Ishan Gopu Nair† Lily Avery Waterman‡ Isaac Parks‡	Fabricating Nanoparticle Enhanced Membranes for Passive Membrane Dehumidification
Warsinger, David	7069	Isaac Parks† Clark Lay*	Lunar Water Acquisition via In Situ -Resource Utilization
Wasserman, Adam	1034	Carmen Raquel Erickson†	The Shape of a Molecule Close to a Metal Surface: Insights from Density Functional Theory
Webb, Kevin J	1074	Sydney Cecelia Sobczak†	Neuron Classification for Fluorescence Lifetime Imaging
Wedow, robbee	7043	Aahan Bajpai†	How three indicators of depression influence young people
Weekly, Samuel A	9000	Randy Alejo† Abigale Tucker‡	Design and Deployment of a A Kubernetes- Based Data Warehouse for HPC analytics
Weekly, Samuel A	9005	Abigale Tucker† Randy Alejo‡	Building a Data Pipeline and Warehouse for Supercomputing Environments
Wei, Tiwei	1487	Duc Minh Hoang†	Two-phase Heat transfer Enhancement using Confined Multi-Jets
Wellman, Bruce	1027	Sogo Bakare† Virginia Lucille Hawkins* Steven Li* William McMahon*	Semiconductor Education as the Seed for Nigeria's Tech and Economic Growth
Wellman, Bruce	1040	Virginia Lucille Hawkins† Sogo Bakare* William McMahon* Steven Li*	Al in Ideation: Is it hurting or helping? A qualitative analysis of student discourse during engagement with the engineering design process
Wellman, Bruce	1052	William McMahon† Virginia Lucille Hawkins* Steven Li* Sogo Bakare*	Analysis on the effectiveness of LLM's to assist inexperienced programmers in the debugging and generation of basic python scripts
Wellman, Bruce	1250	Steven Li† William McMahon* Virginia Lucille Hawkins* Sogo Bakare* Andrew Robert Ryan*	Place-based Semiconductor Education and Its Impact on K-12 STEM Pipeline Development in Emerging Hubs
Whelton, Andrew	1028	Dewayne Eric Ballance†	Eaton and Palisades: Assessing Post-Wildfire Challenges that Plague the Community
Whelton, Andrew	1078	Kaitlyn Marie Wayne†	Evaluating Post-Fire Environmental Testing Guidance for Standing Homes: Gaps, Risks, and Recommendations
Widhalm, Joshua R	1015	Justin Ray Walder†	Engineering flux through the MVA Pathway to Enhance Terpenoid Synthesis in Tomato
Wilhelm, Roland Conrad	1215	Mallory A Luse† Lillian Grace Maldia*	Analyzing Biofilm Formation on PVC-coated Magnetic Beads for High-throughput Microbiome Applications
Wilker, Jonathan J	7075	Chantelle April Miller†	Altering a Biobased Epoxy via Fillers to Improve Adhesion to Wood

Name	Presentation	Students	Title
Williams, Dale Andrew Pri	1458	Javier S Robinson†	Constructing Spacecraft Trajectories in the
			Earth-Moon Region using Adaptive Trajectory
			Design Software
Wilson, Damen Alec	1242	Tom Long Huynh†	A Digital Health Solution to Mitigate Overuse
			Injury Risk in Elite Platform and Springboard Diving
Wilson, Damen Alec	7082	Monique Watson†	Utilizing Wearable Technology to Improve
Wilson, Barren Alec	7002	Worlique Watson	POTS Diagnostic Testing
Wise DiVincenzo, Jenna L	1075	Minh Binh Tran†	Evaluating the ability of large language models
			to generate verifiable specifications in VeriFast
Wise DiVincenzo, Jenna L	1445	Doruk Alp Mutlu†	Expanding Specification Capabilities of a
			Gradual Verifier with Pure Functions
Wu, John Aaron	7058	Hamdan Ashfaq†	Imaging and Machine Learning of Defects in
Mu Kuongui	1080	Alice Y Zhou†	Semiconductors Investigating Tissue-Specific Voltage Patterns
Wu, Kuangyi	1080	Alice Y Zhou i	During Zebrafish Embryonic Development
			Using Calcium Imaging
Wu, Li-Fan	7016	Lorenzo Demaria†	Airborne Launch and Recovery System: Vision-
			Based Hook Localization for Autonomous Aerial
			Recovery of an Underwater Vehicle
Wu, Shichen	7072	Serena Yu†	Comparative neurotoxicity of PFAS chemicals
Wyatt, Brian Cecil	7006	Pratyush Chettri†	Optimization of Nb4C3Tx MXene Synthesis for
Xie, Dan	1020	Aditi Akella* Naomi Nunez†	Improved Yield and Flake Quality Structural Insights into the TldR-Mediated
Ale, Dali	1020	Naomi Nunez	Transcriptional Repression
Xie, Danning	1075	Minh Binh Tran†	Evaluating the ability of large language models
,			to generate verifiable specifications in VeriFast
Xie, Junkai	1058	Kiersten Mackenzie Penquite†	Coupled Risks of Lead Exposure and Genetic
			Variations in Alzheimer's Disease
Xie, Junkai	1423	Wanming Dai†	Developing an In Vitro Tool to Study TDP-43
		Kiersten Mackenzie Penquite*	Pathology Using a DHFR-Dendra2-TDP43 Fusion
Xie, Junkai	1431	Qingyi Hu†	System  Computational Analysis of Genetic Screens in
Ale, Julikai	1451	Qiligyi Hu i	Stem Cell-Derived Neurons Using MAGeCK
Xie, Lijia	1285	Rachel Christine Quisil Ordiales†	High Temperature Solders for Aerospace and
, ,		Diego Jimenez Rivera†	Defense
		Ian Strachan†	
Xie, Lijia	7065	Diego Jimenez Rivera†	Room Temperature Aging Effects on
			Microstructural Solidification Behavior of Sn-Bi
			Low-Temperature and Sn-Ag-Cu High- Temperature Solder Alloys
Xu, Ranjie	7095	Oliver Thomas Johnson†	Creating a Xenografted Human Vascularized
, nanjie	7.033	Circl Monas somison	Chimeric Brain Model
Xu, Xinzhe	7046	Ruben Canora Alvarez†	Engineering Nonlinear Optical Activation
		Atish Bhungalia*	Functions for High Speed, Low-Power Light-
			Based Neural Networks
Yang, Baijian	1010	Anna Ospina Bedoya†	Modular Pipeline for Terrain Classification in
Vang Paiiian	1411	Anna Ospina Bedoya†	LiDAR Point Clouds  Web Crawlers to Enrich Educational Content
Yang, Baijian	1411	Aillia Ospilia Deuoya	from External Sources
Yang, Beinan	1227	Juliana M Bedoya Villegas†	Insights into Substrate Specificity of
J.		, ,	Sulfotransferase 2B1b towards
			Hydroxycholesterol in Cancer
Yang, Danzhou	1016	Nikki Chun†	Role of DDX5 Protein Domains in Unfolding the
Vene Hueralana	1005	Lione N. Doubleth	MYC Promoter G-quadruplex
Yang, Hyeondong	1065	Liam N Rochet†	Fabrication of Patient-Specific Compliant Aorta model for In Vitro Flow Experiments
Yao, Yao	1200	Ana Sofia Calle Munoz†	Machine Learning Optimization & Sensor
, 140	1200	Anna G. Klupshas*	Characterization for Advanced Particle
		,	Detection Systems
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Name	Presentation	Students	Title
Ye, Zihao	1469	Ziang Wang†	Computer Vision for Real-Time Cellist Postural
		Shrinand Perumal‡	Correction
		Luke Jaehyeon Choi‡	
		Michael X Zhang‡	
		Benjamin Joseph Taylor*	
		Jackson Patrick Shields*	
		Ekaterina Tszyao*	
		Athary Kharbanda*	
		Bisti Sunil Potdar*	
		Sivamurugan Velmurugan*	
		Michael Alexander Ikriannikov*	
		Joseph Issac Getachew*	
Vo. 7ihaa	1505	Mukund Sanjay Rao*	CNAND Deced Evaluation of Comparative NA - 1-1-
Ye, Zihao	1505	Puruo Wang†	CMMD-Based Evaluation of Generative Models
Yogi, Ketankumar Jayantkuma	1487	Duc Minh Hoang†	Two-phase Heat transfer Enhancement using
			Confined Multi-Jets
Yoruk, Harun	1490	Miho Kato†	The Role of Temporal Predictability in
			Sustained Attention
Yoshida, Ken	1029	Nicholas Herschel Burris†	Custom Open-Ephys Plug-In for In-Vivo
			Experiments Involving Multichannel
			Stimulation and Recording
Youngblood, Jeffrey P	1215	Mallory A Luse†	Analyzing Biofilm Formation on PVC-coated
		Lillian Grace Maldia*	Magnetic Beads for High-throughput
			Microbiome Applications
Youngblood, Jeffrey P	1256	Mahira Mim†	Enhancing Carbon-Negative Cement
		Bryn R Goldstein*	Composites with Surface-Modified Cellulose
		,	Nanomaterials
Yu, Denny	1427	Hermes Heng-yu Fu†	Real-time System for Nurses Situation
,,	1	Thermes heng yara.	Awareness and Team Communication
			Assessment
Yu, Jinghe	1202	Luis David Garcia Almeida†	Conceptual Design of an Underwater Actuator
Tu, Jiligile	1202	Luis David Garda Allifelda	for Active Vibration Control of Offshore Pile
Vuon chongli	1050	Vioreton Mackannia Banguita+	Driving  Coupled Ricks of Load Exposure and Constic
Yuan, chongli	1058	Kiersten Mackenzie Penquite†	Coupled Risks of Lead Exposure and Genetic
Vuen alegadi	7072	Course Vi. t	Variations in Alzheimer's Disease
Yuan, chongli	7072	Serena Yu†	Comparative neurotoxicity of PFAS chemicals
Yuh, Madeleine Shuhn Tsua	1047	Henry J Lee†	Exploring Interdependencies Between Self-
			Confidence, Workload, and Learning Stage For
			Intelligent Tutoring Systems
Yuh, Madeleine Shuhn Tsua	1460	Yilin Shao†	Improving Intelligent Tutoring System
			Responsivity to Humans through Haptic
			Feedback
Yun, Yeon Ji	1236	Peter Edvardsson†	Al for Musicians - Performance Audio Evaluator
		Shamita Yedlapalli†	
		Kayla Y. Xu <sup>†</sup>	
		Shih-Yao Sun†	
		Ji Bing Ni‡	
		Ropan Datta‡	
Yun, Yeon Ji	1469	Ziang Wang†	Computer Vision for Real-Time Cellist Postural
, , , , , , , , , , , , , , , , , , , ,	1	Shrinand Perumal‡	Correction
		Luke Jaehyeon Choi‡	
		Michael X Zhang‡	
		Benjamin Joseph Taylor*	
		Jackson Patrick Shields*	
		Ekaterina Tszyao*	
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		Atharv Kharbanda*	
ĺ		Dicti Cunil Datdar*	
		Bisti Sunil Potdar*	
		Sivamurugan Velmurugan*	
		Sivamurugan Velmurugan* Michael Alexander Ikriannikov*	
		Sivamurugan Velmurugan*	

Name	Presentation	Students	Title
Yun, Yeon Ji	9027	Saadhana Kallampalli Illam†	Developing a Robotic Drumming System Using
		Bidit Acharyya‡	Baxter
		Sahil Zahid Shaikh‡	
		Julie Zalautdinov‡	
		Yash Sunil Burange‡	
		Prajitchandar Sathischandar‡	
Zeidler, Benjamin	1461	Wilhelm S Smith†	4D Echocardiographic Assessment of Regional
		Anna Julie Astrid Webb‡	Strain in Acute Doxorubicin Cardiotoxicity
		Aasish Chowdary Karuturi‡	
		Bea Olivia Cabot‡	
Zeidler, Benjamin	7024	Bea Olivia Cabot†	Identifying Doxorubicin-Induced Cardiotoxicity
		Anna Julie Astrid Webb‡	Using 4D Echocardiography
		Wilhelm S Smith‡	
		Aasish Chowdary Karuturi‡	
Zeidler, Benjamin	7039	Aasish Chowdary Karuturi†	Dobutamine Stress Testing in 4D Strain
		Wilhelm S Smith‡	Detection of Early Cardiotoxicity in a DOX-
		Bea Olivia Cabot‡	Treated Mouse Model
		Anna Julie Astrid Webb‡	
Zeidler, Benjamin	7083	Anna Julie Astrid Webb†	Sex-dependent differences in cardiac function
		Bea Olivia Cabot‡	and strain in doxorubicin-induced
		Aasish Chowdary Karuturi‡	cardiomyopathy
		Wilhelm S Smith‡	
Zeng, Yihang	1420	William Christophe Bultman†	Exfoliating WSe2 in search of quantum
		Aditya Srinivasan*	phenomena in TMD Moiré superlattices
		Vincent Cody Stavig*	
Zeng, Yihang	1500	Vincent Cody Stavig†	Searching for novel quantum phase in TMD
		Aditya Srinivasan†	Moiré superlattice
		William Christophe Bultman*	
Zhang, Enxia	9017	Susan Huang†	Optimizing Packaging Techniques for GaN FET, EPC7014, in Space Environments
Zhang, GuangJun	1080	Alice Y Zhou†	Investigating Tissue-Specific Voltage Patterns
Zilalig, Gualigiuli	1080	Alice i Zilou i	During Zebrafish Embryonic Development
			Using Calcium Imaging
Zhang, GuangJun	1225	Kashyap Akkinapally†	Uncovering Bioelectric Cues in Fin Patterning:
Zhang, Guangtun	1223	Rashyap Akkinapany	Imaging the Bioelectric Signaling in Somite
			using Tg(ubi-ASAP1) Fish
Zhang, Lijia	1003	Etna Sofia Gonzalez Granados†	Development of a multiantigenic vaccine
Zhang, Lijia	1005	Etha Sona Gonzalez Granados	against Clostridioides difficile
Zhang, Michael X	9025	Michael Alexander Ikriannikov†	Evaluator - Al Posture Correction for Cello
Zhang, Whender X	3023	Whender Alexander Ikilaniikov	Players
Zhang, Shuaiqing	1420	William Christophe Bultman†	Exfoliating WSe2 in search of quantum
Zitang, situalqing	11.20	Aditya Srinivasan*	phenomena in TMD Moiré superlattices
		Vincent Cody Stavig*	phenomena in two wone superiactices
Zhang, Shuaiqing	1500	Vincent Cody Stavig†	Searching for novel quantum phase in TMD
Zitang, situalqing	1300	Aditya Srinivasan†	Moiré superlattice
		William Christophe Bultman*	Mone superiorde
Zhang, Tonglin	1010	Anna Ospina Bedoya†	Modular Pipeline for Terrain Classification in
Zhang, rongim	1010	7 mia Ospina Bedoya	LiDAR Point Clouds
Zhang, Yijie	7088	Shaocheng Wu†	Foldable Underwater Acoustic Metamaterial
	, 000	Sild Sile in S	for broadband low frequency mitigation
Zhao, Hong	1010	Anna Ospina Bedoya†	Modular Pipeline for Terrain Classification in
	1010	. uma ospina sedoja .	LiDAR Point Clouds
Zheng, Luqi	1282	Evelyn Colon†	Designing a Compiler for a Heterogeneous
	1202	2.5.7 55.6	Digital Compute-In-Memory Transformer
			Accelerator
Zhou, Meng	9022	Claudia Trevino†	CATHODE SELECTION FOR HIGH-
	3022	Ciadala Hevillo	PERFORMANCE, ECONOMICALLY VIABLE
			SODIUM-ION BATTERY SYSTEMS
Zhou, Shan	1494	Scott Nguy†	Analyzing the Electric Vehicle Charging policies
Liiou, Jiiuii	1777	Scott Hay'	and incentives on effective rollout of charging
			stations in California
			Stations in Camornia

Name	Presentation	Students	Title
Zhu, Jiafei	1033	Anna Catherine Dressman†	Modeling Metabolic Dysfunction-Associated
			Steatotic Liver Disease Using Liver Organoids
Zhu, Tiancong	1257	Priya Mishra†	Fabrication of STM-Compatible Hexagonal
		Kyung Jun Lee‡	Boron Nitride/Graphite Devices for Quantum
		Manaswini Singh‡	Defect Studies
Zhu, Tiancong	7010	Sagarika Menon†	Expanding Twistronics to Wafer Scale 2D films
		Priya Mishra‡	
		Manaswini Singh‡	
Zhu, Tiancong	7050	Manaswini Singh†	Engineering 2D Materials for Controlled
-		Sagarika Menon‡	Quantum Defects and Beyond
		Priya Mishra‡	
Zhuang, Yuxin	1217	Tanvi Karthika Nadimpalli†	Examining the Effects of Candida albicans and
-			Candida glabrata Metabolites on Cell
			Proliferation in Gastric Cancer Cells
Zimmer, Noah William	1011	Zachary Pleska†	A Model for Extragalactic Supernovae
			Candidates Utilizing Spectral Decomposition
			and Principal Component Analysis
Zimmer, Noah William	1276	Madeline G Taylor†	Characterizing explosion asymmetry in the
			Cassiopeia A supernova remnant using JWST
			light echo observations
Zimmerman, Russell Lee	1238	Jose Gutierrez†	Ultrafast Squeezed Quantum Light Generation
			and Measurement
Ziviani, Davide	1030	Daniel Jose Carrascal Bonilla†	Development of an Experimental Setup to
			Investigate Commercial Refrigeration Systems
			with Low-GWP Refrigerants
Zollner, Patrick A	7019	Ana Maria De La Torre Sanchez†	Optimizing ARU Deployment: Effects of
			Sampling Intensity and Spatial Arrangement on
			Wild Bird Biodiversity Detection Around
			Poultry Facilities