

Summer 2026 Undergraduate Research Symposium:

Presenters, Contributors, & Acknowledgments

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

Name (role)	Presentation	Title
Aarik, Md Sadat (acknowledgment)	Poster #1003; 7/30 @ 10:30-11:30am	Asymmetric Polyvinylidene Fluoride (PVDF) – Graphitic Aerogel (GA) Membranes for Efficient Air Dehumidification
Aarik, Md Sadat (presenter)	Poster #1225; 7/30 @ 12:00-1:00pm	Quasi-Steady State Performance Analysis of a Dual-Module Humidity Pump and Heat Pump Integrated Industrial Dryer
Aarik, Md Sadat (acknowledgment)	Poster #1441; 7/30 @ 1:30-2:30pm	Influence of Pore Morphology on Dehumidification Performance of Asymmetric Polyethersulfone Membranes
Abeh, Jolissa (presenter)	Poster #1304; 7/30 @ 12:00-1:00pm	Collective Memory in Bacterial Communities: Could It Help Reverse Antibiotic Resistance?
Abt, Agustin (presenter)	Poster #1226; 7/30 @ 12:00-1:00pm	Radiation Cascade Studies in GST-C Using Molecular Dynamics
Abt, Agustin (presenter)	Poster #1295; 7/30 @ 12:00-1:00pm	Radiation Cascade Simulations in GST-C Using Molecular Dynamics
Aceros, Maria Catalina (presenter)	Poster #1047; 7/30 @ 10:30-11:30am	Standardized histological protocol to characterize cochlear synaptopathy in chinchillas after noise or blast exposure
Acres, Teegan (presenter)	Poster #1297; 7/30 @ 12:00-1:00pm	Effects of Equine Pituitary Pars Intermedia Dysfunction on Forelimb Bone Mineral Density and Calculated Bone Strength
Adenuga, Israel (presenter)	Poster #1304; 7/30 @ 12:00-1:00pm	Collective Memory in Bacterial Communities: Could It Help Reverse Antibiotic Resistance?
Adiya, Bolortsetseg (presenter)	Poster #1048; 7/30 @ 10:30-11:30am	Impact of Surface Mineralogy on Calcite Precipitation on Yates Amphibolite: A Combined X-ray CT and SEM-EDS Approach
Agarwal, Aarush (presenter)	Talk #7078; 7/30 @ 3:00pm	BioSimulateAI: Turning Plain-Language Descriptions into Multi-Scale Biological Simulations
Agarwal, Paridhi (presenter)	Poster #1405; 7/30 @ 1:30-2:30pm	ABETutor: Domain-Constrained AI Tutoring System
Ahmad, Sanad (contributor)	Poster #1511; 7/30 @ 1:30-2:30pm	Wide Pulse Pressure and Reverse Flow in the Right Coronary Artery on Dynamic Coronary Angiography
Akella, Srivalli (presenter)	Talk #9008; 7/27-7/31 virtually	Hyperspectral Imaging and Machine Learning Pipeline for Non- Destructive Defect and Strain Mapping in 2D Semiconductors
Akert, William Scott (contributor)	Talk #7081; 7/30 @ 3:00pm	The Impact of a Snack Inspired by the Dieta de la Milpa on Cardiovascular-Kidney-Metabolic Health in Hispanic Individuals
Alexander, Abigail Catherine (presenter)	Poster #1482; 7/30 @ 1:30-2:30pm	Regulation of bone remodeling through co-delivery of STING antagonist and phenamil nanocarriers.
Alojan, Basil (presenter)	Poster #1305; 7/30 @ 12:00-1:00pm	Sustainable Additive Manufacturing Using Thermoplastic Starch Bioplastic Filament

Name (role)	Presentation	Title
Amburgey, Grace Louise (contributor)	Poster #1029; 7/30 @ 10:30-11:30am	Nonstructural Carbohydrates as Signatures of Local Adaptation in a Bur Oak Common Garden
Amerman, Zoe (presenter)	Poster #1406; 7/30 @ 1:30-2:30pm	Using UK Biobank Data to Investigate the Link Between Type 2 Diabetes and Alzheimer's Disease
Amponsah, Keirstyn (contributor)	Poster #1493; 7/30 @ 1:30-2:30pm	Cover crop-based No-till Strategies for Organic Garlic Production
An, Minseong (presenter)	Poster #1049; 7/30 @ 10:30-11:30am	Acoustic Detection of Tool Changes in CNC Milling via Deep Learning
Anand, Rishab (presenter)	Poster #1050; 7/30 @ 10:30-11:30am	Computational Investigation of Actin Cytoskeleton in Plant Cells
Angel Aranguena, Sachenka Katrina (contributor)	Poster #1419; 7/30 @ 1:30-2:30pm	Assessment of Quantity- and Quality-Related Skeletal Properties in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes
Angel Aranguena, Sachenka Katrina (contributor)	Talk #7060; 7/30 @ 2:00pm	Characterizing Structural and Mechanical Femoral Outcomes in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes
Angus, Samuel B (acknowledgment)	Talk #7031; 7/30 @ 12:20pm	A Market-Driven Framework for Neutron Detection: Aligning Detector Technologies with Emerging Nuclear Applications
Arguello Patino, David Felipe (presenter)	Poster #1051; 7/30 @ 10:30-11:30am	Identifying Fatigue Indicators in Cyclists' Bodies Over Time: A Kinematic and Subjective Multi-Modal Pilot Study
Atri, Garv (presenter)	Poster #1227; 7/30 @ 12:00-1:00pm	Quantitative Analysis of Shape and Topological Changes in EVL Cells during zebrafish epiboly
Aubin, Ruby L (presenter)	Poster #1000; 7/30 @ 10:30-11:30am	Longevity Innovations for Flight Technology (L.I.F.T.): Engineering Optimal Battery Packs for Electric Aircraft
Augustine, Drake R (presenter)	Talk #7045; 7/30 @ 1:00pm	Enhancing Tennis Racket Feel Through Multi-Material Additive Manufacturing of Handle Pallets
Avalos Campa, Luis Mariano (presenter)	Talk #7033; 7/30 @ 12:00pm	Sustainable Manufacturing of Aerospace Composite Structures using High-performing Bio-based Epoxy Systems
Aypek, Kaya (presenter)	Poster #1483; 7/30 @ 1:30-2:30pm	Reinforcement Learning for fixed-wing path planning with feasibility evaluation
Azat, Sana (presenter)	Poster #1470; 7/30 @ 1:30-2:30pm	Investigation of the Photochemical Degradation of 6PPD Using UV-Vis Spectroscopy and Liquid Chromatography
Babilino, Justin (presenter)	Talk #7040; 7/30 @ 12:20pm	Buildup, Instrumentation, and Optical Diagnostics for the Purdue High-speed Automated Sand Erosion Rig (PHASER)
Bagde, Saishri (presenter)	Poster #1306; 7/30 @ 12:00-1:00pm	Bridging Electrical and Optical Characterization of Gallium-Doped ZnO for Tailorable Epsilon-Near-Zero Photonics
Bali, Utkarsh (presenter)	Talk #9005; 7/27-7/31 virtually	Beyond Accuracy: A Calibrated Instrument for Certifying the Trustworthiness of LLM-Generated Clinical Hypotheses
Balu, Samiya (presenter)	Talk #7063; 7/30 @ 2:00pm	Mapping the Stacking and Surface Chemistry Landscape of MXenes and Metal Carbides via DFT and Molecular Dynamics
Bamrah, Japteg Singh (presenter)	Talk #7057; 7/30 @ 1:00pm	Engineering Technology: How Do Entry Pathways Relate to Preparation, Satisfaction, and Career Confidence?

Name (role)	Presentation	Title
Barman, Aritra (presenter)	Poster #1228; 7/30 @ 12:00-1:00pm	Selective Molecular Editing via Earth-Abundant Transition Metal Catalysis
Barrido, Gabrielle Marie (presenter)	Poster #1484; 7/30 @ 1:30-2:30pm	Targeting Pro-Inflammatory Macrophages via Sialylated Nanocarriers for Treatment of Rheumatoid Arthritis
Bastian, Jacob (presenter)	Poster #1485; 7/30 @ 1:30-2:30pm	Reproducibility and accuracy of thigh musculature volumetric data analysis derived from axial MRI scans: 3D Slicer vs. Horos
Batista, Angie Ginnella (presenter)	Poster #1116; 7/30 @ 10:30-11:30am	MAPPING PHYSICAL VULNERABILITIES IN GLOBAL SEMICONDUCTORS VALUE CHAINS
Batta, Ruhaan (presenter)	Poster #1407; 7/30 @ 1:30-2:30pm	Optically Reconfigurable Physically Unclonable Functions
Bayona Vergara, William Andres (presenter)	Talk #7004; 7/30 @ 10:20am	Finding the Story in the Sound: A Language-Model-Driven System for Synchronized Audio and Lyrical Narrative Visualization
Beane, Spencer Michael (acknowledgment)	Poster #1240; 7/30 @ 12:00-1:00pm	Project Rosa: An Off-Grid Edge Computing Gateway for Agricultural Data
Beauchaine, Josiah W (presenter)	Talk #7052; 7/30 @ 1:20pm	Machine-Learning-Driven Nuclear Band Reconstruction from γ - γ Coincidence Data
Bell, Olivia (presenter)	Poster #1229; 7/30 @ 12:00-1:00pm	2D and 4D Ultrasound Assessment of Ejection Fraction in an Empagliflozin-Treated Murine Model of Duchenne Muscular Dystrophy
Bellot, Annella (acknowledgment)	Poster #1120; 7/30 @ 10:30-11:30am	Search for $HH \rightarrow b\bar{b}\tau^+\tau^-$ Using Run 3 Scouting Data – Analyze Tagging Performances with Unified Particle Transformer
Bellot, Annella (presenter)	Talk #7027; 7/30 @ 11:00am	Tau-Jet Matching and Tag-and-Probe Tau Tagging Efficiencies for $HH \rightarrow b\bar{b}\tau^+\tau^-$ Searches Using Run 3 CMS Scouting Data
Berntsen, Aaron W (contributor)	Poster #1065; 7/30 @ 10:30-11:30am	An Intelligent, High-Throughput Microfluidic Sorter for Drosophila melanogaster Embryos
Bhatt, Sidharth (presenter)	Poster #1052; 7/30 @ 10:30-11:30am	A Speech Command Interface and Sensing Pipeline for Agricultural Vehicles
Bhatta, Atharva (presenter)	Talk #7051; 7/30 @ 1:00pm	AI-Guided Engineering of Lipocalin Scaffolds for Programmable Small-Molecule Recognition
Bhattacharya, Atiksh (presenter)	Poster #1448; 7/30 @ 1:30-2:30pm	A Custom Capacitive Liquid-Level Sensor for an R&D TPC in Dark Matter Detection
Bhavanishankar, Akshita (presenter)	Poster #1486; 7/30 @ 1:30-2:30pm	Evaluating Wi-Fi Signal Strength in Residential Environments: The effects of building materials and appliance interference
Bhave, Anushka (presenter)	Poster #1230; 7/30 @ 12:00-1:00pm	Developing a Cave Virtual Reality Application for Geoscience Education using Collaborative Design to Establish Learning Goals
Bhave, Anushka (contributor)	Poster #1277; 7/30 @ 12:00-1:00pm	Evaluating LiDAR Parameters for Immersive and Educational VR Cave Environments
Bibeau, Samuel Timothy (presenter)	Talk #7041; 7/30 @ 12:40pm	Photoelastic Gel Pad for Vision-Based Tactile Sensing
Bilic, Ivana Naomi (presenter)	Poster #1487; 7/30 @ 1:30-2:30pm	Seismic survey of the Kentland Impact Structure
Birgy, Madison (presenter)	Poster #1010; 7/30 @ 10:30-11:30am	Establishing a High-Efficiency Soybean Transformation System Using Agrobacterium rhizogenes-Induced Hairy Roots
Blados, Michael (presenter)	Poster #1011; 7/30 @ 10:30-11:30am	Using Hyperspectral Reflectance Models to Estimate Turgor Loss Point in Diverse Maize Germplasm

Name (role)	Presentation	Title
Blanc, Tara Ruslen (contributor)	Poster #1423; 7/30 @ 1:30-2:30pm	Bone-Targeted Radioligand Therapy for Multiple Myeloma
Blank, Duncan Patrick (presenter)	Poster #1021; 7/30 @ 10:30-11:30am	Functional analysis of putative chromatin assembly factors in Arabidopsis
Boeva, Anna (presenter)	Talk #7014; 7/30 @ 10:40am	High-Resolution Cellular STA using Ribosome Alignment
Boss, Martha Cherop (contributor)	Talk #7057; 7/30 @ 1:00pm	Engineering Technology: How Do Entry Pathways Relate to Preparation, Satisfaction, and Career Confidence?
Botero Soto, Harol Esteban (presenter)	Poster #1479; 7/30 @ 1:30-2:30pm	Use of Digital Image Correlation in Calibration Chamber Tests to Study the Response of Soil in Geotechnical Engineering
Bowles, Jennifer Marie (contributor)	Poster #1419; 7/30 @ 1:30-2:30pm	Assessment of Quantity- and Quality-Related Skeletal Properties in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes
Bowles, Jennifer Marie (contributor)	Talk #7060; 7/30 @ 2:00pm	Characterizing Structural and Mechanical Femoral Outcomes in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes
Bowley, Ian Edward (contributor)	Poster #1481; 7/30 @ 1:30-2:30pm	Dissolution Behavior of the γ' -phase in the HAYNES® 233® alloy Ni-Base Superalloy
Boyer, William K (contributor)	Talk #7057; 7/30 @ 1:00pm	Engineering Technology: How Do Entry Pathways Relate to Preparation, Satisfaction, and Career Confidence?
Brar, Ishaan (presenter)	Talk #7058; 7/30 @ 1:20pm	High-Resolution Thermal Warpage Measurement Using 3D Laser Vibrometry and Optical Profilometry
Bravo, Angello (presenter)	Talk #9000; 7/27-7/31 virtually	Rosen Center for Advanced Computing Anvil REU Project #3- Elastic Cloud Scheduling for Anvil
Bravo, Angello (presenter)	Talk #9003; 7/27-7/31 virtually	Rosen Center for Advanced Computing Anvil REU Project #3- Elastic Cloud Scheduling for Anvil
Brooks, Noah Daniel (presenter)	Poster #1400; 7/30 @ 1:30-2:30pm	ISF-DUIRI: From Fungi to Fiber — Sustainable Mycelium Paper and Packaging
Bryan, Samuel D (presenter)	Talk #7007; 7/30 @ 10:20am	Pixel-Wise Gamma-Ray Coincidence Detection Using U-Net Convolutional Networks
Brzozowski, Helen Sophia (acknowledgment)	Poster #1077; 7/30 @ 10:30-11:30am	Creating Connected Pathways in Iron: Engineering Interconnected Porous Networks Through Magnesiothermic Reduction
Brzozowski, Helen Sophia (presenter)	Poster #1408; 7/30 @ 1:30-2:30pm	Nickel Powder and Foil with Reaction-Synthesized Porous Surfaces
Buonaiuto, Louis Vincent (presenter)	Poster #1291; 7/30 @ 12:00-1:00pm	Improved Radiation Testing Methodology and Characterization of COTS Memory Devices with varying Memory and Package Size
Burnett, Cole J (contributor)	Poster #1063; 7/30 @ 10:30-11:30am	Development of a Comfortable, Breathable, Cut-Resistant Hockey Neck Guard
Burnett, Cole J (presenter)	Poster #1231; 7/30 @ 12:00-1:00pm	Development of a Comfortable, Wearable, Cut-Resistant Hockey Neck Guard
Burrell, Phoebe (presenter)	Poster #1488; 7/30 @ 1:30-2:30pm	Investigating the biocatalytic activity of SavA/B homologs in <i>S. pristinaespiralis</i> via heterologous expression in <i>E. coli</i>
Bustamante, Nicolas (presenter)	Poster #1409; 7/30 @ 1:30-2:30pm	Experimental Characterization of Vent-Gas Ignition During Lithium-Ion Battery Thermal Runaway

Name (role)	Presentation	Title
Bustamante, Nicolas (contributor)	Talk #7055; 7/30 @ 1:20pm	NASA Hydrogen Drone Refueling Project
Cabot, Bea Olivia (presenter)	Talk #7044; 7/30 @ 12:40pm	Comparison of scanning electron microscopy and histological observations of human aorta tissue
Campos Vasquez, Odalis Joana (presenter)	Talk #7083; 7/30 @ 3:00pm	Understanding Differences in Active Learning Classroom Typologies
Cano, Hannah Marie (presenter)	Poster #1489; 7/30 @ 1:30-2:30pm	Transcribing the Audio-Visual Materials within the Neil A. Armstrong papers
Cantarella, Juan I (presenter)	Poster #1053; 7/30 @ 10:30-11:30am	FractureTAU: A Spatiotemporal-Attention Deep-Learning Surrogate for Long-Horizon Fracture Forecasting in Microstructures
Carleton, Logan Ray Thomas (presenter)	Poster #1054; 7/30 @ 10:30-11:30am	Comparing Single and Double Transmission Methods for Determining Seismic Wave Velocities in Rock
Caron, Emma (presenter)	Poster #1232; 7/30 @ 12:00-1:00pm	Evaluation and Analysis of Low-GWP Refrigerant-Lubricant Miscibility for Ultra-Low Temperature Applications
Carrel, Daniel Michael (presenter)	Poster #1490; 7/30 @ 1:30-2:30pm	Monitoring Small-Scale Gas Activity Using Electrochemiluminescence Microscopy
Carvalho Almeida, Joao Vitor (presenter)	Poster #1105; 7/30 @ 10:30-11:30am	Extending Gradual CO to Support a Wider Variety of Programs
Catz, Wyatt Soberg (presenter)	Talk #7047; 7/30 @ 1:40pm	Computational Design and Optimization of Functionally Graded TPMS Heat Exchangers
Caudle, Kaleb (presenter)	Poster #1491; 7/30 @ 1:30-2:30pm	Addition of pentanol enhance aqueous zinc metal battery lifetime and performance
Chakkarapani, Anirud (presenter)	Poster #1233; 7/30 @ 12:00-1:00pm	Additive Manufacturing of Transverse Flutes
Chalasani, Eeshwar Ram (presenter)	Poster #1410; 7/30 @ 1:30-2:30pm	Complex biological process modelling using Bayesian Optimization
Chambers, Anna S (presenter)	Poster #1411; 7/30 @ 1:30-2:30pm	Investigating the Role of Neutral Hydroxyl Groups and Sodium on Aluminum Siting in MFI Synthesis
Chan, Avery (presenter)	Poster #1055; 7/30 @ 10:30-11:30am	Evaluation of the In Situ Raman Detection Limit for Bacterial Colonies
Chang, Gilbert (contributor)	Poster #1431; 7/30 @ 1:30-2:30pm	The Development, Assembly, and Training of a Low-cost Bipedal Robot
Chaturvedi, Ojas (contributor)	Poster #1255; 7/30 @ 12:00-1:00pm	Exploration of Finetuning Methods for Deep Learning-Based Aortic Root Segmentation on Echocardiography
Chau, Nha (presenter)	Poster #1492; 7/30 @ 1:30-2:30pm	Coronary Cyclical Cardiac-based Lesion Location and Cardiovascular Risk Factors vs Severity of Right Coronary Artery Stenosis
Chau, Thi (contributor)	Poster #1503; 7/30 @ 1:30-2:30pm	Left Ventricular Ejection Fraction, Right Coronary Artery Reverse Flow, and Lesion Distribution in Coronary Angiography
Chau, Thi (contributor)	Poster #1510; 7/30 @ 1:30-2:30pm	Association of Systolic BP and LDL Cholesterol with Retrograde Coronary Flow and Lesion Distribution in Coronary Angiography
Chauhan, Mihir S (presenter)	Poster #1412; 7/30 @ 1:30-2:30pm	HEROIC: Heterogeneous Robot Intelligence through Conceptual Communication and Gradient-based Control
Chay, Ron Cheng Xuan (acknowledgment)	Poster #1441; 7/30 @ 1:30-2:30pm	Influence of Pore Morphology on Dehumidification Performance of Asymmetric Polyethersulfone Membranes

Name (role)	Presentation	Title
Chen, Elisa (presenter)	Poster #1292; 7/30 @ 12:00-1:00pm	Association of Cumulative Lead Exposure and APOE ε4 Status with Cognitive Decline in Older Adults
Chen, Owen (presenter)	Poster #1471; 7/30 @ 1:30-2:30pm	Source Differentiation of RP2040 and ESP32 Development Boards Using Non-Destructive Chemical and Surface Analysis
Chen, Pin-Yu (presenter)	Poster #1234; 7/30 @ 12:00-1:00pm	Adhesive Interaction between Chitosan Microgel and Polystyrene Plastic Particle by Optical Tweezers
Chen, Qian Yue (presenter)	Poster #1120; 7/30 @ 10:30-11:30am	Search for HH → bbτ ⁺ τ ⁻ Using Run 3 Scouting Data – Analyze Tagging Performances with Unified Particle Transformer
Chen, Qian Yue (acknowledgment)	Talk #7027; 7/30 @ 11:00am	Tau-Jet Matching and Tag-and-Probe Tau Tagging Efficiencies for HH→bbτ ⁺ τ ⁻ Searches Using Run 3 CMS Scouting Data
Chen, Xuanyu (presenter)	Talk #9005; 7/27-7/31 virtually	Beyond Accuracy: A Calibrated Instrument for Certifying the Trustworthiness of LLM-Generated Clinical Hypotheses
Chen Sandi, Daniel Chi Hsien (presenter)	Poster #1056; 7/30 @ 10:30-11:30am	Modulation of Mechanical, Injectable and Degradation Characteristics of MMP Cleavable Microgels to Advance Tissue Repair
Chhetri, Apekshya (contributor)	Poster #1042; 7/30 @ 10:30-11:30am	Utilizing a SIM assay to access microbial Cysteine metabolism and its role in colorectal cancer
Chitturi, Geetika (contributor)	Poster #1306; 7/30 @ 12:00-1:00pm	Bridging Electrical and Optical Characterization of Gallium-Doped ZnO for Tailorable Epsilon-Near-Zero Photonics
Choung, Andrew Thomas (presenter)	Poster #1413; 7/30 @ 1:30-2:30pm	Mosaic Background Reconstruction for Fencing Video Preprocessing
Choung, Andrew Thomas (acknowledgment)	Poster #1451; 7/30 @ 1:30-2:30pm	Computer Vision for Fencing Video Analysis
Christian, John G (presenter)	Poster #1414; 7/30 @ 1:30-2:30pm	Utilizing AC Field-Generated Pearl Chains to Deter Early-Stage Biofilm Formation
Christman, Keri Lyn (acknowledgment)	Poster #1240; 7/30 @ 12:00-1:00pm	Project Rosa: An Off-Grid Edge Computing Gateway for Agricultural Data
Christodoulides, Martinos (presenter)	Poster #1235; 7/30 @ 12:00-1:00pm	Towards translating Low Frequency Alternating Current (LFAC) stimulation for modulating bladder function
Chua, Wen Xun (presenter)	Poster #1415; 7/30 @ 1:30-2:30pm	Build Large AI-Ready Database for Interface Science
Cifuentes Pinilla, Ana Maria (presenter)	Poster #1117; 7/30 @ 10:30-11:30am	COMMERCIALIZING LIPIDOMICS FOR BEEF QUALITY ASSESSMENT Understanding market needs, stakeholder and adoption pathways
Clark, Allison (presenter)	Poster #1236; 7/30 @ 12:00-1:00pm	Resource Allocation to Mitochondria at Slow Growth Rates
Clark, Nathan Grant (presenter)	Poster #1472; 7/30 @ 1:30-2:30pm	Educational Gap Analysis of SCALE HIAP Course Content Using Educational Mapping
Clark, Nathan Grant (acknowledgment)	Poster #1474; 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis of SCALE Educational Resources for System-on-Chip Workforce Development
Clark, Nathan Grant (acknowledgment)	Poster #1478; 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis for SCALE Radiation-Hardening Technical Vertical

Name (role)	Presentation	Title
Clark, Nathan Grant (acknowledgment)	Talk #9006; 7/27-7/31 virtually	Systematic Gap Analysis for SoC Curriculum Development
Collier, Peyton Rose (presenter)	Talk #9007; 7/27-7/31 virtually	A Medication Safety Analysis of Delayed Critical Medication Administration
Contreras, Nycholas (presenter)	Poster #1211; 7/30 @ 12:00-1:00pm	Geometric Characterization of Helix Orientation Across Protein Kinase Conformational States
Contreras Castaneda, Jeronimo (presenter)	Talk #7068; 7/30 @ 2:40pm	A Conductive Polymer-Based Approach to Soft Tactile Sensing for Robotic Manipulation
Corduroy, Jellie (contributor)	Poster #1042; 7/30 @ 10:30-11:30am	Utilizing a SIM assay to access microbial Cysteine metabolism and its role in colorectal cancer
Cortes, Alan (presenter)	Poster #1203; 7/30 @ 12:00-1:00pm	Developing a toolkit for the in vivo monitoring of circadian rhythmicity in Drosophila Melanogaster
Covington, William Thomas (presenter)	Poster #1237; 7/30 @ 12:00-1:00pm	Iron Status, Cognitive Function, and Quality of Life in Perimenopausal Women: Baseline Findings from an Intervention Study
Cowan, Seth Everette (presenter)	Poster #1114; 7/30 @ 10:30-11:30am	Novel, Low-Cost PLA Biopolymer Based Monitoring of Ionizing Gamma Radiation Dose for Space-Based Microelectronics
Coyne, Annalise Irene (contributor)	Poster #1023; 7/30 @ 10:30-11:30am	Investigating Solvent and Processing Effects on ROY Polymorph Crystallization for Pharmaceutical Intermediate Purification
Crouse, Ali Jo (acknowledgment)	Poster #1514; 7/30 @ 1:30-2:30pm	Low pH Exposure Alters Mediator Response in Poly(o-phenylenediamine)-Based Molecularly Imprinted Polymer Sensors
Crump, Brendan Edward (presenter)	Poster #1057; 7/30 @ 10:30-11:30am	Experimentally Probing Mechanistic Differences in Toluene Methylation with Methanol and Dimethyl Ether within H-MFI zeolite
Cruz, Sebastian (presenter)	Poster #1212; 7/30 @ 12:00-1:00pm	Development of G-Quadruplex Database for Structural and Comparative Analysis
Daga, Aryan (presenter)	Talk #7079; 7/30 @ 3:20pm	Investigating Performance of Nanosilica and Non-traditional and Natural Pozzolans in Type IL Cementitious systems
Dang, Manmeet Singh (contributor)	Poster #1412; 7/30 @ 1:30-2:30pm	HEROIC: Heterogeneous Robot Intelligence through Conceptual Communication and Gradient-based Control
Darby, Jack G (presenter)	Talk #7065; 7/30 @ 2:40pm	Comparison of Neutron Detectors and Evaluation of Shielding Materials for Space Microelectronics
Dayal, Aryan (contributor)	Talk #7039; 7/30 @ 12:00pm	Controlled Assembly of Amphiphilic Janus Particles in Polymer Matrix for Novel 3D Printing Applications In Space
De Dios, Reuben Joshua (presenter)	Poster #1022; 7/30 @ 10:30-11:30am	Utilizing Biochar and AMF Partnerships to mitigate Heavy Metal Contamination in Soil
de Medeiros Moraes, Ana Clara (contributor)	Poster #1268; 7/30 @ 12:00-1:00pm	Developing Soft Growing Robot Delivery of Insect Scale Robots for Non-Destructive Inspection
de Medeiros Moraes, Ana Clara (presenter)	Talk #7077; 7/30 @ 3:40pm	Soft Growing Robot Cap's Sensor Integration
de Souza Correa, Guilherme (presenter)	Poster #1058; 7/30 @ 10:30-11:30am	A Semi-Automated Pipeline for Generating Finite Element Models of Plant Cells from Confocal Microscopy

Name (role)	Presentation	Title
Deaton, Abigail R (presenter)	Poster #1416; 7/30 @ 1:30-2:30pm	Functionalized DNA Tetrahedra to Enhance Cellular Uptake for siRNA Delivery Across the Blood–Brain Barrier
Del Sarto, Allison (presenter)	Poster #1012; 7/30 @ 10:30-11:30am	Downregulation of Sucrose Transporter (SUT1) in Tobacco Leaves
Delaby, Louis Michael (acknowledgment)	Poster #1205; 7/30 @ 12:00-1:00pm	Exploring Rm62 involvement in aging as a regulator of R-loop homeostasis
Deng Guan, Ana Susana (presenter)	Talk #7082; 7/30 @ 3:20pm	Process-Level Digital Twin Guide for Flow Optimization and Interoperability in a Semiconductor Backend Manufacturing Plant
Dewitt, Donovan (presenter)	Talk #7037; 7/30 @ 12:20pm	“Structural Characterization of N-terminally ubiquitinated BAP1 in complex with Ub-VME”
Diaz, Dylan Matthew (presenter)	Poster #1040; 7/30 @ 10:30-11:30am	Can rewarding task-switching increase cognitive flexibility?
Diaz, Sylvia Isabella (presenter)	Poster #1238; 7/30 @ 12:00-1:00pm	Investigating the Role of Lithium During FAU-to-CHA Inter-Zeolite Conversion
Dong, Laura (presenter)	Poster #1213; 7/30 @ 12:00-1:00pm	Information Theoretic Analysis of Protein Structures
Doshi, Abhigyan (presenter)	Poster #1239; 7/30 @ 12:00-1:00pm	Statistical Methods for Predicting Instability in Quantum Emitters
Doty, Savannah (presenter)	Poster #1204; 7/30 @ 12:00-1:00pm	Evaluation of the Putative ADAR1 Inhibitors, ADAR1i-124 and NAG638
Duan, Renee (presenter)	Poster #1417; 7/30 @ 1:30-2:30pm	Identifying the Role of Platinum in Decreasing Methanization during Polymer Upcycling on Bimetallic RuPt Alloy Catalysts
Duong, Nhuan Boi (contributor)	Poster #1258; 7/30 @ 12:00-1:00pm	Deployment of Autonomous and Passive Micro-Morphing Aerial Vehicles (MMAVs)
Durbha, Antara (contributor)	Poster #1111; 7/30 @ 10:30-11:30am	Smart PPG Earring for Multi-Modal Eating Detection and Dietary Monitoring
Duric, Pavle (presenter)	Poster #1240; 7/30 @ 12:00-1:00pm	Project Rosa: An Off-Grid Edge Computing Gateway for Agricultural Data
Dyas, Beatrice V (contributor)	Poster #1509; 7/30 @ 1:30-2:30pm	Claudin-4 as a Target for Fluorescent Surgical Imaging of Metastatic Cancer
Eapen, Rohan Joseph (presenter)	Poster #1418; 7/30 @ 1:30-2:30pm	Development and Characterization of a 3D DIPG Spheroid Model to Study Tumor-Immune Interactions in the Brain
Ebbeskotte, Tatum Reese (presenter)	Talk #7086; 7/30 @ 3:20pm	Couples Perceptions of Family Functioning in Military Families with a PTSD Service Dog: A Convergent Mixed Methods Analysis
Ehtisham, Azeem (presenter)	Talk #7003; 7/30 @ 10:00am	BioreactorMR: An AI-Augmented Mixed-Reality Tool for Collaborative Bioreactor Education
Eller, Kendra (presenter)	Poster #1205; 7/30 @ 12:00-1:00pm	Exploring Rm62 involvement in aging as a regulator of R-loop homeostasis
Elmersawy, Ahmed Tarek Ibra (contributor)	Talk #9016; 7/27-7/31 virtually	Hardware-aware code optimization using LLM fine-tuning with pairwise multi-objective DPO driven by a Lagrangian relaxation
Estrera, Kelcie Edrea T (presenter)	Poster #1059; 7/30 @ 10:30-11:30am	Analysis of Closed-Loop Communication to Predict Non-Technical Skills Amongst Surgical Teams in Operating Rooms
Estrera, Kelcie Edrea T (contributor)	Poster #1070; 7/30 @ 10:30-11:30am	Speech-Based Assessment of Acute Fatigue in Surgical Team Members
Everette, Hannah (presenter)	Poster #1493; 7/30 @ 1:30-2:30pm	Cover crop-based No-till Strategies for Organic Garlic Production

Name (role)	Presentation	Title
Ewald, Henry (presenter)	Talk #7070; 7/30 @ 2:20pm	Collapse of the Human Thermal Body Plume: Modeling and Characterization of Gravity-Dependent Gas Exchange
Fabian, John W (presenter)	Poster #1473; 7/30 @ 1:30-2:30pm	Characterization of a Well-Type NaI(Tl) Detector for In-Vivo Neutron Activation Analysis Application
Fang, Hongsen (presenter)	Poster #1060; 7/30 @ 10:30-11:30am	A Real-Time Digital Twin Framework for Temperature Monitoring and Feedback Control in Automated Fiber Placement
Fang, Hongsen (contributor)	Poster #1257; 7/30 @ 12:00-1:00pm	Laser-Profilometry-Driven Digital Twin System for Defect Detection during Automated Fiber Placement
Farber, Brandon Anthony (acknowledgment)	Poster #1471; 7/30 @ 1:30-2:30pm	Source Differentiation of RP2040 and ESP32 Development Boards Using Non-Destructive Chemical and Surface Analysis
Farber, Brandon Anthony (presenter)	Talk #7084; 7/30 @ 3:20pm	Temperature Annealing Properties of a Commercial Optical Transceiver in the Subcritical Pile and Nuclear Reactor
Farias Cisneros, Natasha Catherine (presenter)	Talk #7066; 7/30 @ 2:00pm	Supply chain regionalization and the viability of an AI server hub for Latin America: a system dynamics analysis of Panama
Farmer, Keeley Vonne (acknowledgment)	Poster #1514; 7/30 @ 1:30-2:30pm	Low pH Exposure Alters Mediator Response in Poly(o-phenylenediamine)-Based Molecularly Imprinted Polymer Sensors
Faruqi, Eesha Khalid (presenter)	Poster #1401; 7/30 @ 1:30-2:30pm	Ultrasound Assessment of BAPN-Induced Thoracic Aortic Aneurysm Progression in Juvenile Mice
Fierro, Olyver (acknowledgment)	Poster #1472; 7/30 @ 1:30-2:30pm	Educational Gap Analysis of SCALE HIAP Course Content Using Educational Mapping
Fierro, Olyver (presenter)	Poster #1474; 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis of SCALE Educational Resources for System-on-Chip Workforce Development
Fierro, Olyver (acknowledgment)	Poster #1478; 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis for SCALE Radiation-Hardening Technical Vertical
Fierro, Olyver (contributor)	Talk #9006; 7/27-7/31 virtually	Systematic Gap Analysis for SoC Curriculum Development
Fischer, Kayla A (presenter)	Poster #1401; 7/30 @ 1:30-2:30pm	Ultrasound Assessment of BAPN-Induced Thoracic Aortic Aneurysm Progression in Juvenile Mice
Fletcher, Lorelle Estella ro (presenter)	Poster #1314; 7/30 @ 12:00-1:00pm	A systematic review of EEG research on error processing in schizophrenia
Flis, Hannah (presenter)	Poster #1013; 7/30 @ 10:30-11:30am	Investigating the phenotypic and genetic basis of plagiotropy at high elevation in tropical alpine Arabidopsis thaliana
Forsythe, Hannah Grace (contributor)	Poster #1043; 7/30 @ 10:30-11:30am	Exploring Mechanisms of PFAS Plant Uptake: Diffusion
Foster, Emma (presenter)	Poster #1241; 7/30 @ 12:00-1:00pm	Functionalized DNA Tetrahedra for siRNA Delivery Across the Blood–Brain Barrier
Francis, Kym-Danny Dyah (presenter)	Poster #1121; 7/30 @ 10:30-11:30am	Effect of UV Intensity and Particle Type on the Cure Depth of Photocurable Molding Powders
Freese, Bailey Elizabeth (contributor)	Poster #1023; 7/30 @ 10:30-11:30am	Investigating Solvent and Processing Effects on ROY Polymorph Crystallization for Pharmaceutical Intermediate Purification

Name (role)	Presentation	Title
Freuman, Andrew Lucas (presenter)	Poster #1023; 7/30 @ 10:30-11:30am	Investigating Solvent and Processing Effects on ROY Polymorph Crystallization for Pharmaceutical Intermediate Purification
Friedman, Dylan (presenter)	Poster #1004; 7/30 @ 10:30-11:30am	Context-Enhanced Vision-Language Models for Bridge Condition Rating
Friedrich, Kyle Landon (contributor)	Talk #7045; 7/30 @ 1:00pm	Enhancing Tennis Racket Feel Through Multi-Material Additive Manufacturing of Handle Pallets
Fu, Karis Ge (presenter)	Poster #1494; 7/30 @ 1:30-2:30pm	Behavioral and Neuroinflammatory Effects of Chlorpyrifos Exposure in Pon1(-/-) and Wild-Type Rats.
Fuchs, Ava (presenter)	Poster #1419; 7/30 @ 1:30-2:30pm	Assessment of Quantity- and Quality-Related Skeletal Properties in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes
Fuchs, Ava (contributor)	Talk #7060; 7/30 @ 2:00pm	Characterizing Structural and Mechanical Femoral Outcomes in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes
Furlow, Morgan Denae (presenter)	Poster #1314; 7/30 @ 12:00-1:00pm	A systematic review of EEG research on error processing in schizophrenia
Galej, Matthew Tomasz (presenter)	Poster #1495; 7/30 @ 1:30-2:30pm	AI Aversion in Students' Perceptions of Code Quality
Garapati, Akshith (contributor)	Poster #1078; 7/30 @ 10:30-11:30am	Teaching AI to See Past Style: A Reproducible CAPTCHA-Style Tool for Curating Invariant Image Pairs
Garapati, Akshith (presenter)	Poster #1242; 7/30 @ 12:00-1:00pm	Geographic Robustness for Agricultural Earth Observation Foundation Models through Post-Hoc Adaptation
Garapati, Akshith (acknowledgment)	Poster #1405; 7/30 @ 1:30-2:30pm	ABETutor: Domain-Constrained AI Tutoring System
Garcia, Juan (presenter)	Poster #1243; 7/30 @ 12:00-1:00pm	Self-Improving Agent Skills for Reproducible Scientific Simulation Workflows
Garcia Cardenas, Gabriela (presenter)	Poster #1244; 7/30 @ 12:00-1:00pm	Coated in slime: the physical properties of skin mucus across fish species
Gardner, Estelle Nour (contributor)	Poster #1204; 7/30 @ 12:00-1:00pm	Evaluation of the Putative ADAR1 Inhibitors, ADAR1i-124 and NAG638
Gardner, Michael David (presenter)	Poster #1496; 7/30 @ 1:30-2:30pm	The Relative Roles of Genetic Distance and Chromosomal Rearrangements on Reproductive Isolation
Garg, Medhansh (presenter)	Poster #1245; 7/30 @ 12:00-1:00pm	Scaling Real-Time Inference and Automated Anomaly Detection for 250+ Type II Supernovae
Garg, Parthav (presenter)	Poster #1420; 7/30 @ 1:30-2:30pm	Predictability of Atmospheric Blocking in Future Climates using Convolutional Neural Networks
Gloss, Julia (presenter)	Poster #1005; 7/30 @ 10:30-11:30am	Development of a Machine Learning Model to Assess Indoor Air Quality Based on Measured Particulate Matter Levels
Goel, Shashwat (presenter)	Talk #9008; 7/27-7/31 virtually	Hyperspectral Imaging and Machine Learning Pipeline for Non- Destructive Defect and Strain Mapping in 2D Semiconductors
Gomez Cintron, Auriani Faviola (presenter)	Poster #1061; 7/30 @ 10:30-11:30am	Tiam1 as a candidate mediator for Calcium-dependent actin remodeling events in the egg-to-embryo transition
Gomez Langebeck, Gabriela (presenter)	Poster #1062; 7/30 @ 10:30-11:30am	Molecular and Physiological Characterization of a Trichoderma Isolate from Peru

Name (role)	Presentation	Title
Gomez Velasquez, Nicolas (presenter)	Poster #1063; 7/30 @ 10:30-11:30am	Development of a Comfortable, Breathable, Cut-Resistant Hockey Neck Guard
Gomez Velasquez, Nicolas (contributor)	Poster #1231; 7/30 @ 12:00-1:00pm	Development of a Comfortable, Wearable, Cut-Resistant Hockey Neck Guard
Goodman, Elijah (presenter)	Poster #1246; 7/30 @ 12:00-1:00pm	An Empirical Study of LLM-Driven Microwave Circuit Design
Gootee, Maxwell J (contributor)	Poster #1253; 7/30 @ 12:00-1:00pm	Injectable Alginate–Chitosan Hydrogel: Fabrication and Characterization
Gootee, Maxwell J (presenter)	Talk #7059; 7/30 @ 1:40pm	Developmental Neurotoxicity of Trifluoroacetic Acid (TFA): Oxidative Stress and Neurotransmitter Responses in Zebrafish
Gordon-Washington, Mei Qi (presenter)	Talk #7013; 7/30 @ 10:20am	Investigating substitutions in Hypervariable Region 1 of Hepatitis C virus envelope protein E2 to improve antibody binding
Graciano, Vincent John (presenter)	Poster #1064; 7/30 @ 10:30-11:30am	Geometric Control of Drug Release in Additively Manufactured Dosage Forms Using Vibration-Assisted Printing
Greenlee, Michael Oscar (presenter)	Talk #7023; 7/30 @ 11:40am	Impact of Varying Wall Temperature on Hypersonic Boundary-Layer Transition
GREGORY, DANIEL SEARS (presenter)	Poster #1006; 7/30 @ 10:30-11:30am	A Comparative Life-cycle Assessment Workflow for Interpreting Divergence in Early-Stage Building Carbon Estimates
Grover, Ansh (presenter)	Talk #9009; 7/27-7/31 virtually	Bayesian Parameter Estimation for Nonlinear Dynamical Systems
Gupta, Aarushi (presenter)	Poster #1307; 7/30 @ 12:00-1:00pm	Using Community-Based Art Activities to Support Psychosocial Wellbeing Among Immigrant Youth: A Four-Week Pilot Study
Gupta, Aarushi (presenter)	Talk #7071; 7/30 @ 2:40pm	Beyond the Game: Exploring Sport, Culture, and Community Through Experiential Learning in Türkiye
Gupta, Arsh (presenter)	Poster #1247; 7/30 @ 12:00-1:00pm	Q-JSR: A Hybrid Classical-Quantum Framework for Multi-Class Instance Segmentation in Aerial Imagery
Gupta, Arsh (presenter)	Poster #1279; 7/30 @ 12:00-1:00pm	Q-JSR: A Hybrid Classical-Quantum Framework for Multi-Class Instance Segmentation in Aerial Imagery
Gupta, Devanshi (contributor)	Poster #1216; 7/30 @ 12:00-1:00pm	DAQnuc: Per-Atom and Per-Residue Quality Assessment for Nucleic Acid Models from Cryo-EM Density Maps
Gupte, Arjun Sandeep (contributor)	Talk #9016; 7/27-7/31 virtually	Hardware-aware code optimization using LLM fine-tuning with pairwise multi-objective DPO driven by a Lagrangian relaxation
Guzey, Ediz (presenter)	Talk #7043; 7/30 @ 12:20pm	Evaluation of Control Strategies for Drone Path Tracking and Cooperative Multi-Agent Exploration of Indoor Environments
Haack, Thomas James (presenter)	Poster #1308; 7/30 @ 12:00-1:00pm	Body Mass Index and Clinical Outcomes of Elderly Patients with Acute Myocardial Infarction
Hall, Kylie Elizabeth (presenter)	Talk #9010; 7/27-7/31 virtually	Audit of Use of Enoxaparin for Off Label Indications Post Cardiac Surgery
Hall, Nina Rose (presenter)	Talk #7072; 7/30 @ 2:00pm	City Sounds: How Increasing Noise Impacts the Host-Seeking Behavior of a Frog-Biting Mosquito
Hamilton, Caleb Carr (presenter)	Poster #1248; 7/30 @ 12:00-1:00pm	Using SAM2 for Floe Size Distribution Analysis

Name (role)	Presentation	Title
Hammerbeck, Levi (presenter)	Talk #7001; 7/30 @ 10:20am	Atomization of Fuel in the Pre-vaporization Tube of a Small-Scale Annular Gas Turbine Combustor
Hannah, Mia R (presenter)	Poster #1309; 7/30 @ 12:00-1:00pm	Towards tracing coastal oxygenation patterns through Eastern oyster shells
Hargarten, Sarabeth Grace (acknowledgment)	Poster #1030; 7/30 @ 10:30-11:30am	Smart Capsule Microbiome Profiling to Map Weaning Adaptation and Improve Swine Gastrointestinal Health
Hathaway, Mackenzie (acknowledgment)	Talk #7011; 7/30 @ 10:40am	Pulse-Flow Reverse Osmosis
Hayden, Teresa (presenter)	Poster #1206; 7/30 @ 12:00-1:00pm	Production of Bispecific T-Cell Engagers in Rosetta-gami 2 (DE3) Cells
He, Sicheng (presenter)	Poster #1065; 7/30 @ 10:30-11:30am	An Intelligent, High-Throughput Microfluidic Sorter for Drosophila melanogaster Embryos
Hearn, Chase Taylor (contributor)	Poster #1036; 7/30 @ 10:30-11:30am	Evaluating the role of coniferyl alcohol and pinosresinol in lateral root density in Arabidopsis thaliana
Hegde, Ananya (presenter)	Poster #1249; 7/30 @ 12:00-1:00pm	When the Brakes Come Off: Investigating Role of CSK in Stem-Cell Growth and Blood Development
Heiser, Alessia Lin (presenter)	Poster #1311; 7/30 @ 12:00-1:00pm	Novel Therapeutic Advancements Against Enterococcal Infection
Henson, Jamie Chanadol (presenter)	Poster #1066; 7/30 @ 10:30-11:30am	Micro-Morphing Aerial Vehicle for Passive Controlled Descent
Henson, Jamie Chanadol (presenter)	Poster #1258; 7/30 @ 12:00-1:00pm	Deployment of Autonomous and Passive Micro-Morphing Aerial Vehicles (MMAVs)
Hernandez Acosta, Diego Alejandro (presenter)	Poster #1421; 7/30 @ 1:30-2:30pm	Association Between Hemodynamics and Vessel Wall Enhancement in Intracranial Aneurysms
Hernandez Barboza, Valeria Raquel (presenter)	Poster #1250; 7/30 @ 12:00-1:00pm	RNA expression reveals heat shock resistance genes in distinct potato cultivars
Hernandez Conde, Ana Maria (presenter)	Poster #1251; 7/30 @ 12:00-1:00pm	Beyond Rest and Task: Information-Theoretic Measures of Brain Reconfiguration as Biomarkers of Familial Risk for Alcohol Use
Hernández Peña, Arianis Loraine (presenter)	Poster #1219; 7/30 @ 12:00-1:00pm	EMT-Mediated Regulation of Exogenous Fatty Acid Uptake in Breast Cancer Cells
Hetrick, Kenli (presenter)	Poster #1252; 7/30 @ 12:00-1:00pm	Evaluating Grid Collimator Spatial Configurations to Maximize Bystander Effects in Spatially Fractionated Radiation Therapy
Hill, Kit (presenter)	Poster #1014; 7/30 @ 10:30-11:30am	Silencing of Mutator Element in Maize
Hoang, Quang (contributor)	Poster #1492; 7/30 @ 1:30-2:30pm	Coronary Cyclical Cardiac-based Lesion Location and Cardiovascular Risk Factors vs Severity of Right Coronary Artery Stenosis
Hoang, Quang (contributor)	Poster #1510; 7/30 @ 1:30-2:30pm	Association of Systolic BP and LDL Cholesterol with Retrograde Coronary Flow and Lesion Distribution in Coronary Angiography
Hoang, Van (contributor)	Poster #1503; 7/30 @ 1:30-2:30pm	Left Ventricular Ejection Fraction, Right Coronary Artery Reverse Flow, and Lesion Distribution in Coronary Angiography
Hoang, Van (contributor)	Poster #1511; 7/30 @ 1:30-2:30pm	Wide Pulse Pressure and Reverse Flow in the Right Coronary Artery on Dynamic Coronary Angiography
Howat, Alexis M (acknowledgment)	Poster #1027; 7/30 @ 10:30-11:30am	The Influence of Drought Conditions on Freshwater Mussel Movement in Indiana Rivers

Name (role)	Presentation	Title
Howe, Kira (presenter)	Poster #1067; 7/30 @ 10:30-11:30am	Development of an Efficient, Synthetic Pathway for Large Scale Atipamezole Manufacturing
Hsu, Yi Yang (presenter)	Talk #7024; 7/30 @ 11:00am	Digital Inline Holographic Particle Tracking Velocimetry for High-Image-Density Particle Erosion Characterization
Hu, Alvin (contributor)	Talk #7070; 7/30 @ 2:20pm	Collapse of the Human Thermal Body Plume: Modeling and Characterization of Gravity-Dependent Gas Exchange
Huang, Eric (presenter)	Poster #1001; 7/30 @ 10:30-11:30am	Conformal Safety for Multimodal Fusion via Optimal-Transport Alignment
Huang, Xinhui Katherine (presenter)	Poster #1024; 7/30 @ 10:30-11:30am	Development and scale-up of a standardized in vitro swine digestion model to evaluate nutritional value of feed ingredients
Hufendick, George Alexander (contributor)	Poster #1029; 7/30 @ 10:30-11:30am	Nonstructural Carbohydrates as Signatures of Local Adaptation in a Bur Oak Common Garden
Hughes, Tyler (presenter)	Talk #7006; 7/30 @ 10:00am	Acoustic Enhancement of Porous Filters in HVAC Systems for Submicron Bioaerosol Removal
Humphreys, Robert (presenter)	Poster #1402; 7/30 @ 1:30-2:30pm	Political and Military Aspects of NATO's Flexible Response
Hunt, Isabelle Anne (contributor)	Poster #1419; 7/30 @ 1:30-2:30pm	Assessment of Quantity- and Quality-Related Skeletal Properties in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes
Hunt, Isabelle Anne (presenter)	Talk #7060; 7/30 @ 2:00pm	Characterizing Structural and Mechanical Femoral Outcomes in a Murine Model of Alcohol Use Disorder and Type 2 Diabetes
Hussain, Huda Touqeer (presenter)	Poster #1497; 7/30 @ 1:30-2:30pm	Evaluating the Antimicrobial Potential and Safety Landscapes within a Customized Chemical Library
Hutjens, Sam Nelson (presenter)	Poster #1025; 7/30 @ 10:30-11:30am	Wasps of West Lafayette: Collection, Curation and Identification
Huynh, Huy Bao (presenter)	Talk #7019; 7/30 @ 11:20am	Designing a Game-Based Learning Platform for Teaching Mathematical Optimization
Ilyussizov, Rinat (presenter)	Poster #1422; 7/30 @ 1:30-2:30pm	Prebiotic Reaction Network Characterization for Ammonia-free Alanine Formation on Titan.
Im, Changyeol (presenter)	Talk #7030; 7/30 @ 12:00pm	Semantic Processing and Early Language Learning (SPELL)
Im, Juyeon (presenter)	Poster #1423; 7/30 @ 1:30-2:30pm	Bone-Targeted Radioligand Therapy for Multiple Myeloma
Isaac de Medeiros, Leonardo (presenter)	Poster #1424; 7/30 @ 1:30-2:30pm	Tumor Stromal Targeting – PDAC Tissue-Mimicking Phantom
Isingizwe, Denyse (presenter)	Talk #7069; 7/30 @ 2:00pm	Bioinspired Continuum Robot
Jackson, Delfina B (presenter)	Poster #1425; 7/30 @ 1:30-2:30pm	Development of an Endothelial Microfluidic Chip Model as a Platform for Drug Delivery Studies in Cancer
Jacobson, Andrea Carmen (presenter)	Poster #1498; 7/30 @ 1:30-2:30pm	Protein-protein interactions among pollen tube reception regulators
Jain, Aarav (contributor)	Poster #1412; 7/30 @ 1:30-2:30pm	HEROIC: Heterogeneous Robot Intelligence through Conceptual Communication and Gradient-based Control
Jain, Kabir (presenter)	Talk #7009; 7/30 @ 10:00am	Vision-Based Runway Detection
Jain, Pragya (acknowledgment)	Poster #1206; 7/30 @ 12:00-1:00pm	Production of Bispecific T-Cell Engagers in Rosetta-gami 2 (DE3) Cells
Jang, Habin (presenter)	Poster #1253; 7/30 @ 12:00-1:00pm	Injectable Alginate–Chitosan Hydrogel: Fabrication and Characterization

Name (role)	Presentation	Title
Janicek, Joseph Anthony (presenter)	Poster #1068; 7/30 @ 10:30-11:30am	Development of an AI-Assisted Workflow for Automated Analysis of Untargeted Nano-DESI Mass Spectrometry Imaging Data
Jankovic, Savana (presenter)	Poster #1026; 7/30 @ 10:30-11:30am	Using a yeast-2-hybrid assay to optimize the auxin inducible degron system
Jara Moreno, Daniel Esteban (presenter)	Poster #1069; 7/30 @ 10:30-11:30am	Evaluation of platinum-tin and platinum-copper alloy catalysts for chemoselective hydrogen addition.
Jelu, Vianca (presenter)	Talk #9011; 7/27-7/31 virtually	Low-Cost Microfluidic Devices for Live Zebrafish Imaging of Wound Healing and Immune Response
Jensen, Mia Alexandra (presenter)	Poster #1254; 7/30 @ 12:00-1:00pm	Effect of Delivery Methods of Hyaluronidase on Enzymatic Degradation of Hyaluronic Acid
Jiang, Yizheng (contributor)	Poster #1059; 7/30 @ 10:30-11:30am	Analysis of Closed-Loop Communication to Predict Non-Technical Skills Amongst Surgical Teams in Operating Rooms
Jiang, Yizheng (presenter)	Poster #1070; 7/30 @ 10:30-11:30am	Speech-Based Assessment of Acute Fatigue in Surgical Team Members
Jin, Eric (presenter)	Talk #9001; 7/27-7/31 virtually	GTAP Insight Engine: AI Agents for Scientific Computing
Jin, Eric (presenter)	Talk #9002; 7/27-7/31 virtually	GTAP Insight Engine: AI Agents for Scientific Computing
Jo, William Eunseok (presenter)	Poster #1293; 7/30 @ 12:00-1:00pm	Coupled Phase-Field and Finite Element Modeling of Copper Pad Deformation in Hybrid Bonding Anneal
Johnson, Alexis Moriah (presenter)	Poster #1015; 7/30 @ 10:30-11:30am	Crosstalk between ethylene biosynthesis and autophagy in response to stress
Johnson, Ikechi M (presenter)	Talk #9012; 7/27-7/31 virtually	Vancomycin Functionalized DNA Hydrogel on Titanium Surfaces Against Implant Infections
Johnson, Lucas O (presenter)	Poster #1499; 7/30 @ 1:30-2:30pm	Uncovering Structural Determinants of Substrate Scope in a Peptide Cyclase Enzyme Family
Joshi, Aditya H (contributor)	Poster #1071; 7/30 @ 10:30-11:30am	Optimization of Wafer-Scale MoSe ₂ Growth via Molecular Beam Epitaxy
Joshi, Aditya H (presenter)	Poster #1500; 7/30 @ 1:30-2:30pm	Optimizing Air-Annealing Parameters for Single-Step Surface Morphology on C- and A-Plane Sapphire
Joshi, Dev Vishwash (presenter)	Poster #1426; 7/30 @ 1:30-2:30pm	Characterization and Optimization of Mycelium-based Membrane Distillation with Feed-Side Fins
Jungblut, Owen Joseph (contributor)	Poster #1284; 7/30 @ 12:00-1:00pm	Identifying Drug Treatments for Functional Recovery After Spinal Cord Injury in Zebrafish
Justice, Chandler (presenter)	Poster #1000; 7/30 @ 10:30-11:30am	Longevity Innovations for Flight Technology (L.I.F.T.): Engineering Optimal Battery Packs for Electric Aircraft
Kale, Pradyunn Vikram (presenter)	Poster #1427; 7/30 @ 1:30-2:30pm	Extending Rumoca with eFMI GALEC for Embedded Controller Generation
Kallely, Abel Paul Sholey (presenter)	Poster #1428; 7/30 @ 1:30-2:30pm	Experimental validation of a Coupled Eulerian-Lagrangian model to predict granular discharge in industrial hoppers.
Kamila, Sai Kasturi (acknowledgment)	Poster #1450; 7/30 @ 1:30-2:30pm	Two-Way Coupled Particle-Air Flow Simulation for Improved Erosion Prediction in Aircraft Engine Compressors

Name (role)	Presentation	Title
Kamila, Sai Kasturi (presenter)	Poster #1501; 7/30 @ 1:30-2:30pm	Automated Image Correlation Analysis of Particle Impact for Solid Particle Erosion
Kang, Julia (presenter)	Poster #1255; 7/30 @ 12:00-1:00pm	Exploration of Finetuning Methods for Deep Learning-Based Aortic Root Segmentation on Echocardiography
Kang, Julia (contributor)	Talk #7010; 7/30 @ 10:20am	Beyond Diameter: Biomechanical Phenotyping of Pediatric Aortic Root Dilation Across Etiologies
Kapur, Pia (contributor)	Poster #1252; 7/30 @ 12:00-1:00pm	Evaluating Grid Collimator Spatial Configurations to Maximize Bystander Effects in Spatially Fractionated Radiation Therapy
Kauffmann, Brayden (presenter)	Poster #1071; 7/30 @ 10:30-11:30am	Optimization of Wafer-Scale MoSe ₂ Growth via Molecular Beam Epitaxy
Kauffmann, Brayden (acknowledgment)	Poster #1500; 7/30 @ 1:30-2:30pm	Optimizing Air-Annealing Parameters for Single-Step Surface Morphology on C- and A-Plane Sapphire
Kaur, Agampreet (contributor)	Talk #7059; 7/30 @ 1:40pm	Developmental Neurotoxicity of Trifluoroacetic Acid (TFA): Oxidative Stress and Neurotransmitter Responses in Zebrafish
Keeraswangporn, Pataraphol (presenter)	Poster #1256; 7/30 @ 12:00-1:00pm	Agricultural-Vehicle-Based Radio-Frequency Readout System for Underground Biodegradable Sensors and Batteries
Kelkar, Rohan (acknowledgment)	Poster #1060; 7/30 @ 10:30-11:30am	A Real-Time Digital Twin Framework for Temperature Monitoring and Feedback Control in Automated Fiber Placement
Kelkar, Rohan (presenter)	Poster #1257; 7/30 @ 12:00-1:00pm	Laser-Profilometry-Driven Digital Twin System for Defect Detection during Automated Fiber Placement
Keller, Kai X (presenter)	Poster #1066; 7/30 @ 10:30-11:30am	Micro-Morphing Aerial Vehicle for Passive Controlled Descent
Keller, Kai X (presenter)	Poster #1258; 7/30 @ 12:00-1:00pm	Deployment of Autonomous and Passive Micro-Morphing Aerial Vehicles (MMAVs)
Khan, Ahmed (presenter)	Poster #1310; 7/30 @ 12:00-1:00pm	Cognitive Effects of Exoskeleton Use on Hazard Identification Performance in Construction Workers
Kharwanlang, Nathan Maharaj (presenter)	Poster #1072; 7/30 @ 10:30-11:30am	AudioFix: Bridging the Expertise Gap in Acoustic Fault Diagnosis with Multimodal AI
Khondge, Ayush Ashok (contributor)	Poster #1065; 7/30 @ 10:30-11:30am	An Intelligent, High-Throughput Microfluidic Sorter for <i>Drosophila melanogaster</i> Embryos
Kim, Ian (presenter)	Poster #1502; 7/30 @ 1:30-2:30pm	Uncovering the Role of the scs Pilus Within the Complex Surface Architecture of <i>Stenotrophomonas maltophilia</i>
Kim, Kyungmin (presenter)	Poster #1073; 7/30 @ 10:30-11:30am	Route-Aware and Uncertainty-Aware Traversability Planning for Safe Detours and Route Rejoining in Agricultural Field Autonomy
Kimmick, Olivia Lucille (presenter)	Poster #1311; 7/30 @ 12:00-1:00pm	Novel Therapeutic Advancements Against Enterococcal Infection
Kindwall, Emma M (presenter)	Poster #1259; 7/30 @ 12:00-1:00pm	Imaging and analysis of pSmad signaling following optogenetic BMP activation in zebrafish embryogenesis
Kingsford, Sierra J (acknowledgment)	Poster #1030; 7/30 @ 10:30-11:30am	Smart Capsule Microbiome Profiling to Map Weaning Adaptation and Improve Swine Gastrointestinal Health

Name (role)	Presentation	Title
Kingston, Erwin (presenter)	Poster #1207; 7/30 @ 12:00-1:00pm	Targeting ASC Filament Formation as a Therapeutic Strategy for Alzheimer's Disease
Kinstlinger, Samuel (presenter)	Talk #7034; 7/30 @ 12:20pm	Machine Learning for Fast Decision Generation in Engineering Optimization
Kipp, Adam Lewis (presenter)	Poster #1429; 7/30 @ 1:30-2:30pm	Pressure and Force Density Distributions Caused by Electromagnetic Radiation
Kirby, Mary C (presenter)	Poster #1074; 7/30 @ 10:30-11:30am	Assessment of Pseudomonas Fluorescens as a Non-Pathogenic Model Invader in Plumbing Systems
Kistler, Brandon M (contributor)	Talk #7081; 7/30 @ 3:00pm	The Impact of a Snack Inspired by the Dieta de la Milpa on Cardiovascular-Kidney-Metabolic Health in Hispanic Individuals
Kita, Keegan M (presenter)	Poster #1294; 7/30 @ 12:00-1:00pm	Analysis of Laser Wakefield Acceleration and the Beam-Loading Effect in Higher Dimensions
Klein, Sean Ross (acknowledgment)	Poster #1471; 7/30 @ 1:30-2:30pm	Source Differentiation of RP2040 and ESP32 Development Boards Using Non-Destructive Chemical and Surface Analysis
Knoerr, Charis (presenter)	Talk #7057; 7/30 @ 1:00pm	Engineering Technology: How Do Entry Pathways Relate to Preparation, Satisfaction, and Career Confidence?
Kochhar, Sanah (presenter)	Poster #1122; 7/30 @ 10:30-11:30am	Born This Way? Birth Order Differences in Parents' Evaluations of Preschoolers' Math Abilities and the Importance of Math
Koh, Eileen (acknowledgment)	Poster #1472; 7/30 @ 1:30-2:30pm	Educational Gap Analysis of SCALE HIAP Course Content Using Educational Mapping
Koh, Eileen (contributor)	Poster #1474; 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis of SCALE Educational Resources for System-on-Chip Workforce Development
Koh, Eileen (acknowledgment)	Poster #1478; 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis for SCALE Radiation-Hardening Technical Vertical
Koh, Eileen (presenter)	Talk #9006; 7/27-7/31 virtually	Systematic Gap Analysis for SoC Curriculum Development
Kokosa, Anna Louise (presenter)	Poster #1075; 7/30 @ 10:30-11:30am	Functionalization of DNA tetrahedra for in vitro testing of siRNA delivery across the Blood-Brain Barrier
Koron, Alexander Nikos (presenter)	Poster #1220; 7/30 @ 12:00-1:00pm	Caffeic Acid-Tin Nanoparticles for Acute Kidney Injury Treatment
Kota, Akhil (presenter)	Poster #1076; 7/30 @ 10:30-11:30am	Learning-Based Projection Methods for Nonconvex Constrained Optimization
Kowis, Grace Ann (contributor)	Poster #1292; 7/30 @ 12:00-1:00pm	Association of Cumulative Lead Exposure and APOE ε4 Status with Cognitive Decline in Older Adults
Kraemer, Grace Mae (acknowledgment)	Poster #1030; 7/30 @ 10:30-11:30am	Smart Capsule Microbiome Profiling to Map Weaning Adaptation and Improve Swine Gastrointestinal Health
Krishna, Hrishikesh Murli (presenter)	Poster #1430; 7/30 @ 1:30-2:30pm	The Lateral Olivocochlear System and its Plasticity Following Noise Exposure
Kritenbrink, Joseph Timothy (presenter)	Poster #1260; 7/30 @ 12:00-1:00pm	Automated Radio Evaluation Suite: Modular Testing Architecture
Kritenbrink, Joseph Timothy (acknowledgment)	Poster #1458; 7/30 @ 1:30-2:30pm	Analysis of Fast Tuning Methods for Cross Coupled Resonator Cavity Filters
Kruyer, Emma Claire (presenter)	Talk #9013; 7/27-7/31 virtually	Analysis of Interventions made by Specialist Pharmacists during Annual Review of Cystic Fibrosis Patients

Name (role)	Presentation	Title
KUNO, MIZUKI (presenter)	Poster #1007; 7/30 @ 10:30-11:30am	A Data-Sparse Workflow for Urban-Scale Building Energy Modeling Using Large Language Models
Kushner, Emily Danielle (presenter)	Poster #1077; 7/30 @ 10:30-11:30am	Creating Connected Pathways in Iron: Engineering Interconnected Porous Networks Through Magnesiothermic Reduction
Kushner, Emily Danielle (acknowledgment)	Poster #1408; 7/30 @ 1:30-2:30pm	Nickel Powder and Foil with Reaction-Synthesized Porous Surfaces
Ladino Giraldo, Jesus Esteban (presenter)	Talk #7067; 7/30 @ 2:20pm	An automated workflow for Multi-Omics Analysis using Solvent Touch Extraction.
Lai, Yuet Ching Jolie (presenter)	Poster #1431; 7/30 @ 1:30-2:30pm	The Development, Assembly, and Training of a Low-cost Bipedal Robot
Lank, Kaylei (presenter)	Talk #7081; 7/30 @ 3:00pm	The Impact of a Snack Inspired by the Dieta de la Milpa on Cardiovascular-Kidney-Metabolic Health in Hispanic Individuals
Lanka, Govind Sriram (acknowledgment)	Poster #1441; 7/30 @ 1:30-2:30pm	Influence of Pore Morphology on Dehumidification Performance of Asymmetric Polyethersulfone Membranes
Laskowski, Jada E (presenter)	Poster #1312; 7/30 @ 12:00-1:00pm	Deciphering physiological and molecular insights in heat-resilient insect-resistant wheat for sustainable agriculture
Le, Khanh (presenter)	Poster #1503; 7/30 @ 1:30-2:30pm	Left Ventricular Ejection Fraction, Right Coronary Artery Reverse Flow, and Lesion Distribution in Coronary Angiography
Le, Khanh (contributor)	Poster #1503; 7/30 @ 1:30-2:30pm	Left Ventricular Ejection Fraction, Right Coronary Artery Reverse Flow, and Lesion Distribution in Coronary Angiography
Le, Thy (contributor)	Poster #1503; 7/30 @ 1:30-2:30pm	Left Ventricular Ejection Fraction, Right Coronary Artery Reverse Flow, and Lesion Distribution in Coronary Angiography
Le, Thy (contributor)	Poster #1511; 7/30 @ 1:30-2:30pm	Wide Pulse Pressure and Reverse Flow in the Right Coronary Artery on Dynamic Coronary Angiography
Lee, Andre (presenter)	Poster #1078; 7/30 @ 10:30-11:30am	Teaching AI to See Past Style: A Reproducible CAPTCHA-Style Tool for Curating Invariant Image Pairs
Lee, Andre (contributor)	Talk #9016; 7/27-7/31 virtually	Hardware-aware code optimization using LLM fine-tuning with pairwise multi-objective DPO driven by a Lagrangian relaxation
Lee, Bosco (contributor)	Poster #1065; 7/30 @ 10:30-11:30am	An Intelligent, High-Throughput Microfluidic Sorter for Drosophila melanogaster Embryos
Lee, Caleb Eunho (presenter)	Poster #1261; 7/30 @ 12:00-1:00pm	From outputs to confidence: Quantifying trust in science agents
Lee, Changho (presenter)	Poster #1200; 7/30 @ 12:00-1:00pm	Service Life Assessment of Additively Manufactured Carbon Fiber Reinforced Thermoplastic Composite Tooling
Lee, Sooji (presenter)	Poster #1079; 7/30 @ 10:30-11:30am	Air Quality Modeling: Incorporating Stable Isotopes into the US-EPA CMAQ Air Quality Model
Lee, Woojun (presenter)	Poster #1080; 7/30 @ 10:30-11:30am	Design, analysis, and fabrication of elastic light scattering system for airborne particulate matter
Lee, Yoon gi (presenter)	Poster #1262; 7/30 @ 12:00-1:00pm	AURAMCP: Enhancing nanoHUB's FAIR Workflows and Data through MCP Servers

Name (role)	Presentation	Title
Lee, Yunsuk (contributor)	Poster #1423; 7/30 @ 1:30-2:30pm	Bone-Targeted Radioligand Therapy for Multiple Myeloma
Lei, Zonghan (presenter)	Poster #1081; 7/30 @ 10:30-11:30am	ML-Based Unsupervised Segmentation of Synchrotron XRF Data to Identify Metal Patterns in AD and Healthy Brain Tissue
Lei, Zonghan (contributor)	Poster #1525; 7/30 @ 1:30-2:30pm	Comparison of Correlation, Distribution, and Concentration of Metals and Trace Elements in AD and Healthy Human Brain Tissue
Leiva Aldana, Ana Sofia (presenter)	Poster #1082; 7/30 @ 10:30-11:30am	In-Situ Pharmaceutical Production Platform with Mycoponic™ : Environmental Optimization of Pleurotus Exudate Yield
Lesniewski, Anastasia Patricia (presenter)	Poster #1263; 7/30 @ 12:00-1:00pm	Deformation of Fracture Networks Under Normal Loading
Li, Andrew Yicheng (presenter)	Poster #1313; 7/30 @ 12:00-1:00pm	Comparative Study of AI Agent Team Structures for Engineering Problem Solving
Li, Belinda Xintian (presenter)	Poster #1504; 7/30 @ 1:30-2:30pm	Determining the reduced matrix elements of electron-dipole transitions in atomic cesium
Li, Guanting (presenter)	Poster #1264; 7/30 @ 12:00-1:00pm	Tuning Metal Identity and Nitrogen Coordination in M-N-C Substrates for Enhanced Pt Nanoparticle Stability
Li, Hao-Chen (presenter)	Poster #1432; 7/30 @ 1:30-2:30pm	Design and Simulation of a 64 MHz Birdcage Antenna System with a Reflective Cap for Non-Invasive Alzheimer's Disease Therapy
Li, Leland (presenter)	Poster #1433; 7/30 @ 1:30-2:30pm	LLM-Guided Evolutionary Discovery of Reaction Networks from Transient Data via Programmatic Search and Nonlinear Optimization
Li, Richard Zhixiong (presenter)	Poster #1475; 7/30 @ 1:30-2:30pm	Measuring degradation of Thermal Interface Materials
Li, Zhixin (presenter)	Poster #1083; 7/30 @ 10:30-11:30am	Exploring the Existence of Atmospheric Blocking's Precursor Patterns with Physics-Informed Explainable AI
Li, Zhixin (acknowledgment)	Poster #1437; 7/30 @ 1:30-2:30pm	Optimal Blocking Precursors in Observations and a Two-layer Quasi-geostrophic Model
Lim, Anne C. (presenter)	Poster #1122; 7/30 @ 10:30-11:30am	Born This Way? Birth Order Differences in Parents' Evaluations of Preschoolers' Math Abilities and the Importance of Math
Lim, Somi (presenter)	Poster #1084; 7/30 @ 10:30-11:30am	Tracking and Evaluating Beneficial Microbial Establishment in Hydroponic Systems
Lin, Howie (presenter)	Talk #9001; 7/27-7/31 virtually	GTAP Insight Engine: AI Agents for Scientific Computing
Lin, Howie (presenter)	Talk #9002; 7/27-7/31 virtually	GTAP Insight Engine: AI Agents for Scientific Computing
Lin, Samantha Sarah (contributor)	Poster #1218; 7/30 @ 12:00-1:00pm	Characterizing the Role of Mouse Granzyme A in LPS-Mediated Inflammation
Lin, Zihan (contributor)	Poster #1431; 7/30 @ 1:30-2:30pm	The Development, Assembly, and Training of a Low-cost Bipedal Robot
Little, Marlayna (presenter)	Poster #1208; 7/30 @ 12:00-1:00pm	Investigating the Role of Dnmt3bas in Protecting the Dnmt3b Promoter from DNA Methylation
Liu, Ailuen (presenter)	Poster #1265; 7/30 @ 12:00-1:00pm	Skip Diene Synthesis Through Reductive Heck-Type Reactions
Liu, Bingyi (presenter)	Poster #1085; 7/30 @ 10:30-11:30am	CoReason: Human-Agent Co-Reasoning in AR-Assisted Physical Tasks

Name (role)	Presentation	Title
Liu, Roy (presenter)	Talk #7032; 7/30 @ 12:40pm	Compact Single-Shot Ranging, Locating and Multi-Scale Imaging Using Metasurfaces
Liu, Yi Kai (contributor)	Poster #1039; 7/30 @ 10:30-11:30am	2-Dimensional Proteome Profiling for in-depth Tracking of Drug Interactions
Liu, Zhaoyu (acknowledgment)	Poster #1437; 7/30 @ 1:30-2:30pm	Optimal Blocking Precursors in Observations and a Two-layer Quasi-geostrophic Model
Lowe, Bison R (contributor)	Poster #1029; 7/30 @ 10:30-11:30am	Nonstructural Carbohydrates as Signatures of Local Adaptation in a Bur Oak Common Garden
Lu, Jasmine Yichen (presenter)	Poster #1221; 7/30 @ 12:00-1:00pm	Salience of Racial Demographic Shift and Childlessness Information on Attitudes Towards Reproductive Choices
Mader, Katherine (presenter)	Poster #1266; 7/30 @ 12:00-1:00pm	High-Throughput Electrochemical Synthesis of Amides on Ni(OH) ₂
Madrazo, Sophia D (presenter)	Poster #1086; 7/30 @ 10:30-11:30am	Synthesis of novel ligands to improve reactivity and selectivity of organometallic reactions through electric field catalysis
Magee, Megan Rose (contributor)	Talk #7045; 7/30 @ 1:00pm	Enhancing Tennis Racket Feel Through Multi-Material Additive Manufacturing of Handle Pallets
Magesh, Aditi (presenter)	Poster #1506; 7/30 @ 1:30-2:30pm	A Low-Cost Readout Circuit for Real-Time Protein Sensing Using Electrochemical Impedance Spectroscopy
Magesh, Dhruva (presenter)	Poster #1505; 7/30 @ 1:30-2:30pm	Understanding Coronary Artery Disease and Atherosclerosis Through the Language of Fluid Dynamics
Mai, Khanh (presenter)	Poster #1434; 7/30 @ 1:30-2:30pm	Spatial-Light-Modulator-Generated Optical Tweezer Arrays for Neutral Atom Nanophotonics
Makovic, Kelly Marie (presenter)	Poster #1507; 7/30 @ 1:30-2:30pm	Customs and courtesies: Preliminary qualitative analysis of an equine-assisted learning program for military veterans
Malecki, Jessica Anna (presenter)	Talk #9014; 7/27-7/31 virtually	Anthracycline Maximum Lifetime Doses and Cardiotoxicity Risk Assessment Tools
Manley, Ryan Y (presenter)	Poster #1267; 7/30 @ 12:00-1:00pm	Orientation Dependent Excitonic Coupling and Purcell Enhancement in MoOCl ₂ -TMDC Heterostructures
Mannava, Sri Krishna Teja (presenter)	Poster #1435; 7/30 @ 1:30-2:30pm	Angle-Dependent Superconducting Transport in hBN-Encapsulated 2M-WS ₂ at cryogenic Temperatures
Manuel, Maximilianne (presenter)	Talk #9015; 7/27-7/31 virtually	A Simulated Comparison of Propulsor Placement in Cargo Planes Implementing Boundary Layer Ingestion
Marpu, Prisha (presenter)	Poster #1403; 7/30 @ 1:30-2:30pm	A Multi-Modal iOS App for Interview Transcript Capture and LLM-Based Entity Extraction in Opioid Recovery Pathway Mapping
Martinez, Ana (presenter)	Talk #7061; 7/30 @ 2:20pm	A Looking Glass Into the Future of Disease in a Warmer World: Susceptibility to <i>Metschnikowia bicuspidata</i> Infection in <i>Daphni</i>
Marzan, Muhammad Mahdi (contributor)	Poster #1306; 7/30 @ 12:00-1:00pm	Bridging Electrical and Optical Characterization of Gallium-Doped ZnO for Tailorable Epsilon-Near-Zero Photonics

Name (role)	Presentation	Title
Mason, Katrina (presenter)	Poster #1298; 7/30 @ 12:00-1:00pm	Advancing Better Therapies: Screening Pyrrolopyridine-Hydrazone Derivatives Against <i>Clostridioides difficile</i>
Masuraha, Vedha (presenter)	Poster #1436; 7/30 @ 1:30-2:30pm	Understanding the Optical Properties of MXenes
Matamoros, Roman (presenter)	Poster #1214; 7/30 @ 12:00-1:00pm	Discovery of Novel Covalent Inhibitors of the Cryptic Site of the Protein Tyrosine Phosphatase SHP-1.
Mathew, Seona James (presenter)	Poster #1314; 7/30 @ 12:00-1:00pm	A systematic review of EEG research on error processing in schizophrenia
Maxim, Stefan Teodor (presenter)	Talk #9016; 7/27-7/31 virtually	Hardware-aware code optimization using LLM fine-tuning with pairwise multi-objective DPO driven by a Lagrangian relaxation
McCollum, Caden S (presenter)	Poster #1437; 7/30 @ 1:30-2:30pm	Optimal Blocking Precursors in Observations and a Two-layer Quasi-geostrophic Model
McLaughlin, Ashlynn R (presenter)	Poster #1508; 7/30 @ 1:30-2:30pm	Exploring methods of Staghorn Coral (<i>Acropora cervicornis</i>) outplant monitoring off the coast of Utila, Honduras
Melendez, Jose Luis (contributor)	Poster #1023; 7/30 @ 10:30-11:30am	Investigating Solvent and Processing Effects on ROY Polymorph Crystallization for Pharmaceutical Intermediate Purification
Melhem Bertagni, Milagros (presenter)	Poster #1315; 7/30 @ 12:00-1:00pm	Effects of Drying Time and Plasticizer Content on Thermoplastic Starch Adhesive Strength
Melo Munoz, Santiago (presenter)	Talk #7046; 7/30 @ 1:20pm	Risk Exposure of U.S. Industry Sectors to Oil Price Shocks
Méndez Serrano, Kiara C. (presenter)	Poster #1041; 7/30 @ 10:30-11:30am	Evaluating Consumer Acceptance of Aquaponically Grown Lettuce Following Exposure to an Informative Label
Menon, Sagarika (contributor)	Talk #7028; 7/30 @ 11:20am	Inert-Atmosphere Assembly of Encapsulated Air-Sensitive vdW Heterostructures with Machine-Learning Layer Identification
Miles, John Pao (acknowledgment)	Poster #1124; 7/30 @ 10:30-11:30am	Differential Vulnerability of Excitatory and Inhibitory Synapses to Acrolein-Mediated Oxidative Damage
Miller, Nathaniel Merrick (contributor)	Poster #1039; 7/30 @ 10:30-11:30am	2-Dimensional Proteome Profiling for in-depth Tracking of Drug Interactions
Miller, Noah (presenter)	Poster #1509; 7/30 @ 1:30-2:30pm	Claudin-4 as a Target for Fluorescent Surgical Imaging of Metastatic Cancer
Mir mohammad ali, Seyedeh Nooshan (contributor)	Talk #7081; 7/30 @ 3:00pm	The Impact of a Snack Inspired by the Dieta de la Milpa on Cardiovascular-Kidney-Metabolic Health in Hispanic Individuals
Mishra, Priya (contributor)	Talk #7028; 7/30 @ 11:20am	Inert-Atmosphere Assembly of Encapsulated Air-Sensitive vdW Heterostructures with Machine-Learning Layer Identification
Moffitt, Allison Melissa Meilner (contributor)	Talk #7081; 7/30 @ 3:00pm	The Impact of a Snack Inspired by the Dieta de la Milpa on Cardiovascular-Kidney-Metabolic Health in Hispanic Individuals
Moffitt, Ariana (contributor)	Poster #1042; 7/30 @ 10:30-11:30am	Utilizing a SIM assay to access microbial Cysteine metabolism and its role in colorectal cancer
Mohammadu Haroon, Sahda (presenter)	Poster #1438; 7/30 @ 1:30-2:30pm	Producing Rocket Fuel on Mars: A Thermodynamic Analysis of Separating Perchlorate Salts from Martian Brine
Mohammadu Haroon, Sahda (acknowledgment)	Poster #1447; 7/30 @ 1:30-2:30pm	Converting Martian Soil to Rocket Fuel

Name (role)	Presentation	Title
Mollan, Sarah E (contributor)	Poster #1238; 7/30 @ 12:00-1:00pm	Investigating the Role of Lithium During FAU-to-CHA Inter-Zeolite Conversion
Molugu, Ananya (presenter)	Poster #1449; 7/30 @ 1:30-2:30pm	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Monark, Aidan Josef (presenter)	Poster #1087; 7/30 @ 10:30-11:30am	A Tuberculosis Infection and Treatment ODE Model Investigating the Pharmacodynamics of Inhaled Antibiotics on Human Granuloma
Monge Mesen, Juan Pablo (presenter)	Talk #7048; 7/30 @ 1:00pm	Pressure-Triggered Contact Sensing for Fully Mechanical Soft Robotic Response
Monge Mesen, Juan Pablo (contributor)	Talk #7050; 7/30 @ 1:40pm	Fluid-Powered Autonomy: Embedded Fluidic Oscillators for Pneumatic and Hydraulic Soft Robots
Moon, Sohyun (presenter)	Poster #1088; 7/30 @ 10:30-11:30am	Selective Delamination of Lithium-Ion Battery Cathodes Using Mild Alkaline System for Direct Recycling
Morie, Eva Corinne (presenter)	Poster #1027; 7/30 @ 10:30-11:30am	The Influence of Drought Conditions on Freshwater Mussel Movement in Indiana Rivers
Morris, Sophia (presenter)	Poster #1028; 7/30 @ 10:30-11:30am	Decreased Raman Spectroscopic Carotenoid Bands Indicate Oxacillin-Induced Stress in Staphylococcus aureus
Moy, Aiden (contributor)	Poster #1440; 7/30 @ 1:30-2:30pm	Improving the accuracy and efficiency in Large Language Model component creation for web development and content creation
Mukadam, Taher Mustafa (presenter)	Talk #7011; 7/30 @ 10:40am	Pulse-Flow Reverse Osmosis
Mukund, Sahana (contributor)	Talk #7063; 7/30 @ 2:00pm	Mapping the Stacking and Surface Chemistry Landscape of MXenes and Metal Carbides via DFT and Molecular Dynamics
Muniz, Dominic Nathaniel (presenter)	Poster #1268; 7/30 @ 12:00-1:00pm	Developing Soft Growing Robot Delivery of Insect Scale Robots for Non-Destructive Inspection
Muniz, Dominic Nathaniel (contributor)	Talk #7077; 7/30 @ 3:40pm	Soft Growing Robot Cap's Sensor Integration
Muniz, Lara Teresa (contributor)	Talk #9012; 7/27-7/31 virtually	Vancomycin Functionalized DNA Hydrogel on Titanium Surfaces Against Implant Infections
Munoz, Lucas (presenter)	Poster #1439; 7/30 @ 1:30-2:30pm	Microchip integration of a novel communications technology
Murotani, Elizabeth Renee (contributor)	Poster #1065; 7/30 @ 10:30-11:30am	An Intelligent, High-Throughput Microfluidic Sorter for Drosophila melanogaster Embryos
Murphy, Keira Alexandra (presenter)	Poster #1089; 7/30 @ 10:30-11:30am	Evaluating Biofilm-Contaminant Interactions in Water Distribution Systems After Emergencies and Disasters
Murray, Logan M (presenter)	Talk #7054; 7/30 @ 1:00pm	DNA Origami Nanocube Scaffold for Production of Multiple Therapeutic RNA Sequences
Murray Coleman, A'Mya (presenter)	Poster #1316; 7/30 @ 12:00-1:00pm	The Hands Who Foster: Demographics of Animal Foster Volunteers
Nagubandi, Saran S (presenter)	Poster #1440; 7/30 @ 1:30-2:30pm	Improving the accuracy and efficiency in Large Language Model component creation for web development and content creation
Nair, Abhishek Manoj (presenter)	Poster #1269; 7/30 @ 12:00-1:00pm	Three Dimensional (3D) Imaging and Analysis of Damage in Sn-Ag-Cu Solder Ball Grid Arrays Under Thermal Cycling
Nair, Ishan Gopu (acknowledgment)	Poster #1003; 7/30 @ 10:30-11:30am	Asymmetric Polyvinylidene Fluoride (PVDF) – Graphitic Aerogel (GA) Membranes for Efficient Air Dehumidification

Name (role)	Presentation	Title
Nair, Ishan Gopu (contributor)	Poster #1225; 7/30 @ 12:00-1:00pm	Quasi-Steady State Performance Analysis of a Dual-Module Humidity Pump and Heat Pump Integrated Industrial Dryer
Nair, Ishan Gopu (presenter)	Poster #1441; 7/30 @ 1:30-2:30pm	Influence of Pore Morphology on Dehumidification Performance of Asymmetric Polyethersulfone Membranes
Nair, Malavika (presenter)	Poster #1442; 7/30 @ 1:30-2:30pm	A Comparative Evaluation of Machine Learning Models for Heat Conduction Problems
Natarajan, Ashwin (presenter)	Talk #7064; 7/30 @ 2:20pm	Miniaturizing X-Ray Fluorescence Spectroscopy Through Simulation-Driven Vacuum Chamber Design
Neelamagam, Srinath Eswaran (presenter)	Poster #1090; 7/30 @ 10:30-11:30am	Bringing Low-Light 3D Reconstruction Online: Toward Real-Time Visual SLAM for Drones
Nesbitt, Amanda (presenter)	Poster #1404; 7/30 @ 1:30-2:30pm	Investigating the Combined Effects of ADNP Mutations and PFNA Exposure on Human Neuronal Development and ASD
Nguyen, Khoa Duc Khoa (presenter)	Poster #1443; 7/30 @ 1:30-2:30pm	Dexterous Manipulation Benchmark
Nguyen, Nathan (presenter)	Poster #1270; 7/30 @ 12:00-1:00pm	AutoMD: An LLM-Based Agent System for Automating Molecular Dynamics Workflows
Nguyen, Nghia (contributor)	Poster #1510; 7/30 @ 1:30-2:30pm	Association of Systolic BP and LDL Cholesterol with Retrograde Coronary Flow and Lesion Distribution in Coronary Angiography
Nguyen, Nghia (contributor)	Poster #1512; 7/30 @ 1:30-2:30pm	Long-Term Neurocognitive Effects of Childhood Lead Exposure
Nguyen, Ngoc (contributor)	Poster #1492; 7/30 @ 1:30-2:30pm	Coronary Cyclical Cardiac-based Lesion Location and Cardiovascular Risk Factors vs Severity of Right Coronary Artery Stenosis
Nguyen, Ngoc (presenter)	Poster #1510; 7/30 @ 1:30-2:30pm	Association of Systolic BP and LDL Cholesterol with Retrograde Coronary Flow and Lesion Distribution in Coronary Angiography
Nguyen, Ngoc Anh T (presenter)	Poster #1512; 7/30 @ 1:30-2:30pm	Long-Term Neurocognitive Effects of Childhood Lead Exposure
Nguyen, Ngoc Anh T (presenter)	Poster #1517; 7/30 @ 1:30-2:30pm	Angiographic Factor Predicting Persistent Normalization of Ejection Fraction in Dilated Cardiomyopathy
Nguyen, Nolan H (contributor)	Poster #1065; 7/30 @ 10:30-11:30am	An Intelligent, High-Throughput Microfluidic Sorter for Drosophila melanogaster Embryos
Nguyen, Quynh Lam (presenter)	Poster #1299; 7/30 @ 12:00-1:00pm	Investigating the mechanism of an emulsion-based vaccine adjuvant
Nguyen, Thai (presenter)	Poster #1511; 7/30 @ 1:30-2:30pm	Wide Pulse Pressure and Reverse Flow in the Right Coronary Artery on Dynamic Coronary Angiography
Nguyen, Thuy (contributor)	Poster #1510; 7/30 @ 1:30-2:30pm	Association of Systolic BP and LDL Cholesterol with Retrograde Coronary Flow and Lesion Distribution in Coronary Angiography
Nguyen, Veronica Grace (contributor)	Poster #1029; 7/30 @ 10:30-11:30am	Nonstructural Carbohydrates as Signatures of Local Adaptation in a Bur Oak Common Garden
Nielson, Kae (presenter)	Poster #1029; 7/30 @ 10:30-11:30am	Nonstructural Carbohydrates as Signatures of Local Adaptation in a Bur Oak Common Garden
Nino Cocoma, Natalia (presenter)	Poster #1091; 7/30 @ 10:30-11:30am	Investigating Acute Responses to Mild Blast Traumatic Brain Injury in an in vitro Human Tau-Expressing Neuronal Model

Name (role)	Presentation	Title
Niu, Andrew Li (contributor)	Poster #1431; 7/30 @ 1:30-2:30pm	The Development, Assembly, and Training of a Low-cost Bipedal Robot
Noshi, Jannah M (presenter)	Poster #1444; 7/30 @ 1:30-2:30pm	Loss-of-function Mutations in the SCN2A Gene Cause Structural and Functional Deficiencies in Human Cortico-striatal Circuitry
Noznesky, Zoe (presenter)	Poster #1445; 7/30 @ 1:30-2:30pm	Two-Dimensional Acoustic Spectroscopy: Exploration of Quantum Phenomena in Macroscopic Nonlinear Dynamics
Okoli, Princess Gloria Onyinyechi (acknowledgment)	Poster #1438; 7/30 @ 1:30-2:30pm	Producing Rocket Fuel on Mars: A Thermodynamic Analysis of Separating Perchlorate Salts from Martian Brine
Okoli, Princess Gloria Onyinyechi (acknowledgment)	Poster #1447; 7/30 @ 1:30-2:30pm	Converting Martian Soil to Rocket Fuel
Olenick, Samuel Christian (acknowledgment)	Poster #1296; 7/30 @ 12:00-1:00pm	Developing a Gate Boosted Pulse Generator to Drive Gas Discharge Tube Based Nonlinear Transmission Line System
Oo, Eain Drae (presenter)	Talk #7069; 7/30 @ 2:00pm	Bioinspired Continuum Robot
Orr, Alessandra (presenter)	Poster #1304; 7/30 @ 12:00-1:00pm	Collective Memory in Bacterial Communities: Could It Help Reverse Antibiotic Resistance?
Ortiz, Angel (contributor)	Talk #7038; 7/30 @ 12:40pm	Comparing B-Factors and Local Resolution as Metrics of Cryo-EM Protein Structure Quality
Ortiz Gonzalez, Carlos Alexis (presenter)	Poster #1123; 7/30 @ 10:30-11:30am	Conversational FPGA Design Space Exploration: A ReAct-Based LLM Agent Coupled with a Transformer-Based Surrogate Model
Ososki, Owen (presenter)	Poster #1016; 7/30 @ 10:30-11:30am	Tracking algal endosymbiont loss in Paramecium bursaria after cycloheximide treatment
Ostendorf, Nicholas Joseph (contributor)	Talk #7039; 7/30 @ 12:00pm	Controlled Assembly of Amphiphilic Janus Particles in Polymer Matrix for Novel 3D Printing Applications In Space
O'Tain, Nina (presenter)	Poster #1030; 7/30 @ 10:30-11:30am	Smart Capsule Microbiome Profiling to Map Weaning Adaptation and Improve Swine Gastrointestinal Health
Owens, Isabel M (presenter)	Poster #1092; 7/30 @ 10:30-11:30am	Exploring the Structure and Function of Ceg14, a Legionella pneumophila Effector Protein, and its Binding Partners
Paek, Seojin (presenter)	Poster #1031; 7/30 @ 10:30-11:30am	Comparison of CAND1 and CAND2 Dissociation Rates from CUL2
Paias Ferreira, Elena (presenter)	Talk #7025; 7/30 @ 11:20am	Enhancing the Mechanical Reliability of Free-Standing Laser-Induced Graphene through Process and Material Design
Paine, Tyler (presenter)	Poster #1215; 7/30 @ 12:00-1:00pm	Structural and Functional Insights into the Potent and Selective Inhibition of G Protein-Coupled Receptor Kinase 6
Pandey, Mudit (presenter)	Poster #1003; 7/30 @ 10:30-11:30am	Asymmetric Polyvinylidene Fluoride (PVDF) – Graphitic Aerogel (GA) Membranes for Efficient Air Dehumidification
Pandey, Mudit (contributor)	Poster #1225; 7/30 @ 12:00-1:00pm	Quasi-Steady State Performance Analysis of a Dual-Module Humidity Pump and Heat Pump Integrated Industrial Dryer
Pandey, Mudit (acknowledgment)	Poster #1441; 7/30 @ 1:30-2:30pm	Influence of Pore Morphology on Dehumidification Performance of Asymmetric Polyethersulfone Membranes
Pandit, Tejas (acknowledgment)	Poster #1438; 7/30 @ 1:30-2:30pm	Producing Rocket Fuel on Mars: A Thermodynamic Analysis of Separating Perchlorate Salts from Martian Brine

Name (role)	Presentation	Title
Pandit, Tejas (acknowledgment)	Poster #1447; 7/30 @ 1:30-2:30pm	Converting Martian Soil to Rocket Fuel
Papez, Evelyn Marie (presenter)	Poster #1446; 7/30 @ 1:30-2:30pm	Spatial Optimization of Intracortical Ultramicroelectrode Stimulation
Pardo Diaz, Luis Felipe (presenter)	Poster #1480; 7/30 @ 1:30-2:30pm	Guardrail information model: A traceable AI agent methodology for reducing information loss in 2D infrastructure plans.
Park, Minho (presenter)	Poster #1093; 7/30 @ 10:30-11:30am	Physics-Incorporated Digital Twin for Internal and External Weld Feature Prediction in Friction Stir Spot Welding
Parks, Isaac (acknowledgment)	Poster #1438; 7/30 @ 1:30-2:30pm	Producing Rocket Fuel on Mars: A Thermodynamic Analysis of Separating Perchlorate Salts from Martian Brine
Parks, Isaac (presenter)	Poster #1447; 7/30 @ 1:30-2:30pm	Converting Martian Soil to Rocket Fuel
Parmar, Kavyaa (presenter)	Poster #1448; 7/30 @ 1:30-2:30pm	A Custom Capacitive Liquid-Level Sensor for an R&D TPC in Dark Matter Detection
Parrish, Truman Carl (presenter)	Poster #1449; 7/30 @ 1:30-2:30pm	Automation Methods for Gamma Ray Spectroscopy and Data Analysis
Parrish, Truman Carl (contributor)	Talk #7052; 7/30 @ 1:20pm	Machine-Learning-Driven Nuclear Band Reconstruction from γ - γ Coincidence Data
Patchin, Samuel J (presenter)	Poster #1317; 7/30 @ 12:00-1:00pm	CHARACTERIZATION OF MAST CELL TUMORS IN CANIS LUPUS FAMILIARIS
Patel, Rohan (presenter)	Talk #7020; 7/30 @ 11:40am	ChemOperator: A Reproducible Simulation Library for Chemical Engineering Operator Learning
Perez Ramos, David (presenter)	Poster #1042; 7/30 @ 10:30-11:30am	Utilizing a SIM assay to access microbial Cysteine metabolism and its role in colorectal cancer
Perrault, Aaron Lee (acknowledgment)	Talk #7008; 7/30 @ 10:40am	Radar-Based Identification of Buried Lava Flows in the Moon's South Pole-Aitken Basin
Perry, Alex (presenter)	Poster #1272; 7/30 @ 12:00-1:00pm	An Experimental Study on Ice Droplet Breakup Within the Purdue 3-Inch Shock Tube
Perry, Alex (presenter)	Talk #7016; 7/30 @ 11:20am	Ice-Droplet Interaction with Supersonic Shock Waves
Peterson, Madeline Marie (presenter)	Poster #1318; 7/30 @ 12:00-1:00pm	Examining the effects of foliar-applied <i>Bacillus subtilis</i> on tomato phyllosphere microbiome and disease outcome
Pham, Nguyen Chan Nhu (contributor)	Poster #1111; 7/30 @ 10:30-11:30am	Smart PPG Earring for Multi-Modal Eating Detection and Dietary Monitoring
Phan, Pham (contributor)	Poster #1492; 7/30 @ 1:30-2:30pm	Coronary Cyclical Cardiac-based Lesion Location and Cardiovascular Risk Factors vs Severity of Right Coronary Artery Stenosis
Phan, Steven Quocviet (acknowledgment)	Poster #1094; 7/30 @ 10:30-11:30am	Extraction and Purification of Elastin-Like Polypeptides for Layer-by-Layer Nanoparticle-Mediated mRNA Delivery
Phelan, Rebecca Rose (acknowledgment)	Poster #1096; 7/30 @ 10:30-11:30am	Characterization of Dual dsDNA tetrahedra assembly conditions
Phelan, Rebecca Rose (presenter)	Poster #1271; 7/30 @ 12:00-1:00pm	Optimizing DNA Tetrahedron Assembly for Blood-Brain Barrier Drug Delivery
Philip, Isaiah (presenter)	Poster #1216; 7/30 @ 12:00-1:00pm	DAQnuc: Per-Atom and Per-Residue Quality Assessment for Nucleic Acid Models from Cryo-EM Density Maps
Philip, Lucas K (presenter)	Talk #7031; 7/30 @ 12:20pm	A Market-Driven Framework for Neutron Detection: Aligning Detector Technologies with Emerging Nuclear Applications

Name (role)	Presentation	Title
Phuong, Gia Phong (presenter)	Poster #1201; 7/30 @ 12:00-1:00pm	Portable Reverse Osmosis with Pulsed and Reversed Flow
Pichairaj, Vahin (presenter)	Talk #7018; 7/30 @ 11:00am	Force Generation and Contraction of the Actin Cytoskeleton
Pike, Daniel J V (presenter)	Poster #1450; 7/30 @ 1:30-2:30pm	Two-Way Coupled Particle-Air Flow Simulation for Improved Erosion Prediction in Aircraft Engine Compressors
Pike, Daniel J V (acknowledgment)	Poster #1501; 7/30 @ 1:30-2:30pm	Automated Image Correlation Analysis of Particle Impact for Solid Particle Erosion
Pillai, Aditya (presenter)	Poster #1319; 7/30 @ 12:00-1:00pm	BMP4-mediated induction of trophoblast stem cell identity from bovine embryonic stem cells
Pineda Rojas, Kevin Santiago (presenter)	Talk #7039; 7/30 @ 12:00pm	Controlled Assembly of Amphiphilic Janus Particles in Polymer Matrix for Novel 3D Printing Applications In Space
Pinnareddy, Akhil (presenter)	Talk #9017; 7/27-7/31 virtually	Modelling Multiple Pathologies of Alzheimer's Disease Using Human-Mouse Chimeric Brains
Pomart, Verasha (presenter)	Poster #1032; 7/30 @ 10:30-11:30am	Structural Insights into a Plant-Derived Antihypertensive Cyclic Peptide
Poon, Nadine Yifei (presenter)	Poster #1476; 7/30 @ 1:30-2:30pm	Radiation Shield Adaptable to Complex Geometries for Microelectronics Testing
Powell, Christopher (presenter)	Poster #1209; 7/30 @ 12:00-1:00pm	Optimization of 2-Hydroxyglutarate (2HG)-modified peptide enrichment and identification
Prasanna, Ramya (presenter)	Talk #9018; 7/27-7/31 virtually	A Stability-Aware Machine Learning Framework for Immune-Related Prognostic Gene Signatures in Breast Cancer Relapse
Prior, Jacob Lee (acknowledgment)	Poster #1413; 7/30 @ 1:30-2:30pm	Mosaic Background Reconstruction for Fencing Video Preprocessing
Prior, Jacob Lee (presenter)	Poster #1451; 7/30 @ 1:30-2:30pm	Computer Vision for Fencing Video Analysis
Qin, Tongyu (presenter)	Poster #1033; 7/30 @ 10:30-11:30am	Optimizing the preparation of solubilizer in antiviral formulations
Radtke, Caleb Jonathan (presenter)	Poster #1272; 7/30 @ 12:00-1:00pm	An Experimental Study on Ice Droplet Breakup Within the Purdue 3-Inch Shock Tube
Radtke, Caleb Jonathan (presenter)	Talk #7016; 7/30 @ 11:20am	Ice-Droplet Interaction with Supersonic Shock Waves
Raman, Nikhil K (presenter)	Poster #1477; 7/30 @ 1:30-2:30pm	Machine Learning for Intermetallic Compound Growth Prediction in Flip-Chip Solder Joints
Ramchand, Rushil (presenter)	Poster #1273; 7/30 @ 12:00-1:00pm	Evaluating State-of-the-Art LLMs on Postoperative Commentary for Automated Surgical Feedback
Ramee, Alvan (presenter)	Poster #1320; 7/30 @ 12:00-1:00pm	Transient Modeling and Validation of a Passive Membrane Dehumidification Module for Energy-Efficient Industrial Drying
RAMOS PINEDA, AMBER JOSFIN (presenter)	Poster #1007; 7/30 @ 10:30-11:30am	A Data-Sparse Workflow for Urban-Scale Building Energy Modeling Using Large Language Models
Raparti, Amrita Rani (presenter)	Poster #1274; 7/30 @ 12:00-1:00pm	Using μ CT to Visualize Bone Degradation Caused by PTOA
Rasheed, Muneera Shoaib (presenter)	Poster #1513; 7/30 @ 1:30-2:30pm	Experiential Learning: Developing Custom Assistive Technology Through Participatory Design and 3D-Printing
Rasheed, Muneera Shoaib (contributor)	Poster #1519; 7/30 @ 1:30-2:30pm	ADAPT-E: Adaptive Donning and Attachment Platform Technology for Eating Utensils

Name (role)	Presentation	Title
Rauniyar, Aryan (contributor)	Poster #1226; 7/30 @ 12:00-1:00pm	Radiation Cascade Studies in GST-C Using Molecular Dynamics
Rauniyar, Aryan (presenter)	Poster #1295; 7/30 @ 12:00-1:00pm	Radiation Cascade Simulations in GST-C Using Molecular Dynamics
Ren, Yixuan (presenter)	Poster #1094; 7/30 @ 10:30-11:30am	Extraction and Purification of Elastin-Like Polypeptides for Layer-by-Layer Nanoparticle-Mediated mRNA Delivery
Resweber, Corey Peter (acknowledgment)	Poster #1046; 7/30 @ 10:30-11:30am	Exposure to Online Content and the Perceived Violence of Religious Outgroups
Revivo, Alexandra Susan (presenter)	Poster #1034; 7/30 @ 10:30-11:30am	Effectiveness of Household Sanitizers for Reducing Salmonella enterica serovar Newport on Fresh Produce
Rincon, Adrian (presenter)	Poster #1002; 7/30 @ 10:30-11:30am	Understanding the Energy Demands of AI Data Centers
Rios Brito, Vianca A. (presenter)	Poster #1300; 7/30 @ 12:00-1:00pm	Segmentation and Validation of Computed Tomography Scan Measurements on Equine Laryngeal Cartilages
Rivera, Lila (presenter)	Poster #1017; 7/30 @ 10:30-11:30am	Investigating the Role of HTA8 in PKL-Dependent Chromatin Regulation and Development in Arabidopsis Thaliana
Robinson, Ava (presenter)	Poster #1202; 7/30 @ 12:00-1:00pm	Development of a Reflective Solar Concentrator with a Steerable Beam and No Cosine Loss
Rocha Barajas, Andrea (presenter)	Poster #1275; 7/30 @ 12:00-1:00pm	VISIBLE: Visualizing Infant Developmental States Through Noninvasive Multisensory Bioelectronics
Rockmore-Johnson, Hope (presenter)	Poster #1006; 7/30 @ 10:30-11:30am	A Comparative Life-cycle Assessment Workflow for Interpreting Divergence in Early-Stage Building Carbon Estimates
Rodriguez, Erin (presenter)	Poster #1222; 7/30 @ 12:00-1:00pm	Evaluating LLM Biases Across Computer Science Conferences and Institutions
Rodriguez Lopez, Juan Pablo (presenter)	Poster #1116; 7/30 @ 10:30-11:30am	MAPPING PHYSICAL VULNERABILITIES IN GLOBAL SEMICONDUCTORS VALUE CHAINS
Rodriguez-Cruz, Kyannet (presenter)	Poster #1210; 7/30 @ 12:00-1:00pm	Identification of Regulators of RBX1 Turnover in the Absence of Glomulin
Rodriguez-Gonzalez, Amanda (presenter)	Poster #1514; 7/30 @ 1:30-2:30pm	Low pH Exposure Alters Mediator Response in Poly(o-phenylenediamine)-Based Molecularly Imprinted Polymer Sensors
Roeder, Zachary Ryan (presenter)	Poster #1095; 7/30 @ 10:30-11:30am	Characterization of Strain Acquisition in Thermoreversible Acrylic Gels Using Rheo-Particle Image Velocimetry
Rohrer, Keeley Ann (presenter)	Talk #7012; 7/30 @ 10:00am	Determining Regulation of PACT via Phosphorylation in TNBC
Romagnoli Oliveira, Gregorio (presenter)	Poster #1321; 7/30 @ 12:00-1:00pm	Investigating If The D to Y Mutation Relived Auto Inhibition By The Distal C Terminal Domain in Phospholipase C $\beta 4$ Using BRET
Rotteveel, Lena Yvonne Grace (presenter)	Poster #1223; 7/30 @ 12:00-1:00pm	Evaluation of Visual Language Models Through Narrative Sensory Framing
Roumeih, Reyam (presenter)	Poster #1452; 7/30 @ 1:30-2:30pm	The Emerging Role of Agentic AI in Transportation and Logistics
Rowe, William James (presenter)	Poster #1453; 7/30 @ 1:30-2:30pm	Bistable Auxetic Patterns and their use in non-cooperative space object detumbling
Roy, Shreeya (presenter)	Poster #1276; 7/30 @ 12:00-1:00pm	Investigating Particle Diffusometry during Conjugation of Biotinylated Products to Streptavidin-Coated Particles

Name (role)	Presentation	Title
Ruiz Pérez, Abner Obed (presenter)	Poster #1224; 7/30 @ 12:00-1:00pm	High-Resolution Monitoring of the Lake Michigan Shoreline Position Using Orthorectified Camera Imagery
Saavedra Mogotocoro, Maria Alejandra (presenter)	Poster #1481; 7/30 @ 1:30-2:30pm	Dissolution Behavior of the γ' -phase in the HAYNES® 233® alloy Ni-Base Superalloy
Safranek, Olivia Nicole (contributor)	Poster #1110; 7/30 @ 10:30-11:30am	Analysis of temperature-sensitive mutations in <i>Salmonella typhimurium</i>
Safranek, Olivia Nicole (acknowledgment)	Poster #1214; 7/30 @ 12:00-1:00pm	Discovery of Novel Covalent Inhibitors of the Cryptic Site of the Protein Tyrosine Phosphatase SHP-1.
Safranek, Olivia Nicole (presenter)	Talk #7053; 7/30 @ 1:40pm	Thermosensitive Histidine Dehydrogenase (HisD) Mutants in <i>Salmonella typhimurium</i>
Samanta, Hiya (contributor)	Poster #1230; 7/30 @ 12:00-1:00pm	Developing a Cave Virtual Reality Application for Geoscience Education using Collaborative Design to Establish Learning Goals
Samanta, Hiya (presenter)	Poster #1277; 7/30 @ 12:00-1:00pm	Evaluating LiDAR Parameters for Immersive and Educational VR Cave Environments
Sanampudi, Sloka (presenter)	Talk #9019; 7/27-7/31 virtually	AI's Effect on Cybersecurity Insider Threats
Sanjana, Samin (contributor)	Poster #1079; 7/30 @ 10:30-11:30am	Air Quality Modeling: Incorporating Stable Isotopes into the US-EPA CMAQ Air Quality Model
Sanwari, Nasser H (presenter)	Poster #1096; 7/30 @ 10:30-11:30am	Characterization of Dual dsDNA tetrahedra assembly conditions
Sanwari, Nasser H (acknowledgment)	Poster #1271; 7/30 @ 12:00-1:00pm	Optimizing DNA Tetrahedron Assembly for Blood-Brain Barrier Drug Delivery
Saopraseuth, Kayla (presenter)	Poster #1018; 7/30 @ 10:30-11:30am	Myosin XI-K Knockdown Effects on <i>Agrobacterium</i> T-DNA Integration into the <i>Arabidopsis</i> Genome
Sawant, Yutika Vasudeo (presenter)	Talk #7087; 7/30 @ 3:40pm	Structural and Electronic Investigation of ACIGS Chalcopyrites using Density Functional Theory
Sayed Ahmed, Mahmoud Adel Mohamed (contributor)	Poster #1497; 7/30 @ 1:30-2:30pm	Evaluating the Antimicrobial Potential and Safety Landscapes within a Customized Chemical Library
Schechter, Mia Constance (contributor)	Poster #1493; 7/30 @ 1:30-2:30pm	Cover crop-based No-till Strategies for Organic Garlic Production
Schmiedl, Timothy A (presenter)	Poster #1515; 7/30 @ 1:30-2:30pm	Twisted Two-Dimensional Devices Yield Novel Quantum Phenomena
Schneider, Hayden (acknowledgment)	Poster #1094; 7/30 @ 10:30-11:30am	Extraction and Purification of Elastin-Like Polypeptides for Layer-by-Layer Nanoparticle-Mediated mRNA Delivery
Schoenherr, Chris (presenter)	Poster #1454; 7/30 @ 1:30-2:30pm	Evaluation of SpeedBox Connection Strength
Senthil, Sriyesh (contributor)	Poster #1284; 7/30 @ 12:00-1:00pm	Identifying Drug Treatments for Functional Recovery After Spinal Cord Injury in Zebrafish
Sesuraj Baskin, Leonel Baskin (presenter)	Poster #1455; 7/30 @ 1:30-2:30pm	Developing a Human Astrocyte Model to Study the Role of VPS35 in Alzheimer's Disease
Shaaban, Muhammad F (presenter)	Poster #1516; 7/30 @ 1:30-2:30pm	Visual Representations of Speech Decoding
Shah, Alekh Pratish (contributor)	Poster #1229; 7/30 @ 12:00-1:00pm	2D and 4D Ultrasound Assessment of Ejection Fraction in an Empagliflozin-Treated Murine Model of Duchenne Muscular Dystrophy
Shah, Jayden (presenter)	Poster #1517; 7/30 @ 1:30-2:30pm	Angiographic Factor Predicting Persistent Normalization of Ejection Fraction in Dilated Cardiomyopathy

Name (role)	Presentation	Title
Shahper, Mirza Orunav (acknowledgment)	Poster #1233; 7/30 @ 12:00-1:00pm	Additive Manufacturing of Transverse Flutes
Shashurin, Nicole (presenter)	Talk #7029; 7/30 @ 11:40am	Molecular thresholds for activation and fratricide by anti-B7-H3 CAR T cells
SHELDON, SOPHIA (presenter)	Poster #1008; 7/30 @ 10:30-11:30am	Experimental and Computational Study for Optimized Sustainability-Mechanical-Hydration Kinetics of Type II-Slag Cement Mortar
Shen, Fang Rui (presenter)	Poster #1278; 7/30 @ 12:00-1:00pm	Accelerating Scientific Literature Review with Agentic AI: Multi-Agent Knowledge Distillation and Plot Digitization
Shen, Ziqi (presenter)	Poster #1456; 7/30 @ 1:30-2:30pm	Joint Registration and Pathology Detection in CT via Diffeomorphic Neural Optimal Transport
Shivpuje, Diya (presenter)	Poster #1515; 7/30 @ 1:30-2:30pm	Twisted Two-Dimensional Devices Yield Novel Quantum Phenomena
Shrowty, Rohan Ashish (presenter)	Poster #1097; 7/30 @ 10:30-11:30am	Characterization of the Separation via Reverse Osmosis in Chemicaloric Refrigeration Cycles
Singh, Aaruni (presenter)	Talk #7042; 7/30 @ 12:00pm	A Non-Invasive Acoustic Sensing System for Sleep Bruxism Screening
Singh, Aindri Abhishek (presenter)	Talk #7074; 7/30 @ 2:40pm	Optimization of a Folate Conjugated Fully Modified miR-34a for Enhanced Stability, Uptake, and Activity
Singh, Manaswini (presenter)	Talk #7028; 7/30 @ 11:20am	Inert-Atmosphere Assembly of Encapsulated Air-Sensitive vdW Heterostructures with Machine-Learning Layer Identification
Singh, Udaiveer (presenter)	Poster #1098; 7/30 @ 10:30-11:30am	A Foundation Model Approach to Crop Monitoring and Agroecosystem Analytics
Sinks, Miah KeAnna (acknowledgment)	Talk #7008; 7/30 @ 10:40am	Radar-Based Identification of Buried Lava Flows in the Moon's South Pole-Aitken Basin
Sinogas, Leonor Antunes (presenter)	Poster #1457; 7/30 @ 1:30-2:30pm	Resolution restoration and segmentation of two-photon dendritic spine images using deep learning-based algorithms
Siurek, Connor (presenter)	Poster #1247; 7/30 @ 12:00-1:00pm	Q-JSR: A Hybrid Classical-Quantum Framework for Multi-Class Instance Segmentation in Aerial Imagery
Siurek, Connor (acknowledgment)	Poster #1263; 7/30 @ 12:00-1:00pm	Deformation of Fracture Networks Under Normal Loading
Siurek, Connor (presenter)	Poster #1279; 7/30 @ 12:00-1:00pm	Q-JSR: A Hybrid Classical-Quantum Framework for Multi-Class Instance Segmentation in Aerial Imagery
Skrdla, Peter Robertson (presenter)	Poster #1458; 7/30 @ 1:30-2:30pm	Analysis of Fast Tuning Methods for Cross Coupled Resonator Cavity Filters
Slack, Paul Shannon (presenter)	Poster #1099; 7/30 @ 10:30-11:30am	A Color-Sensing Tactile Sensor for Combined Shear and Normal Force Detection in Robotic Applications
Smith, Julian Leonard (presenter)	Poster #1322; 7/30 @ 12:00-1:00pm	Lighting conditions shape visual perception of objects across pasture, aviary, and enriched colony housing systems
Snyder, Norah Kaye (contributor)	Poster #1029; 7/30 @ 10:30-11:30am	Nonstructural Carbohydrates as Signatures of Local Adaptation in a Bur Oak Common Garden
Solarte Rodriguez, Daniela (presenter)	Poster #1100; 7/30 @ 10:30-11:30am	Using UAV-Based Hyperspectral and LiDAR to Estimate Leaf Area Index in Maize
Somerville, Jalynn (presenter)	Talk #7038; 7/30 @ 12:40pm	Comparing B-Factors and Local Resolution as Metrics of Cryo-EM Protein Structure Quality

Name (role)	Presentation	Title
Song, Catherine (presenter)	Poster #1035; 7/30 @ 10:30-11:30am	Long-term Cereal Rye Cover Cropping Improves Soil Microbial Activity in Corn-Soy Systems
Song, Yuwen (presenter)	Poster #1280; 7/30 @ 12:00-1:00pm	From Sulfur to Selenium: Hydrogen Evolution in Metal Intercalated Nanosheets Catalysts
Sorensen, Robert Scott (presenter)	Poster #1101; 7/30 @ 10:30-11:30am	Peri-wound Microvascular Function and the Feasibility of Heat Therapy in Patients with Neuroischemic Foot Ulcers: Pilot Study
Spezzano, James Arthur (acknowledgment)	Poster #1471; 7/30 @ 1:30-2:30pm	Source Differentiation of RP2040 and ESP32 Development Boards Using Non-Destructive Chemical and Surface Analysis
Squier, Colleen Ryan (presenter)	Poster #1281; 7/30 @ 12:00-1:00pm	Contribution of roots vs shoots to adaptive cold acclimation in Arabidopsis thaliana
Srinivasan, Aditya (presenter)	Poster #1459; 7/30 @ 1:30-2:30pm	Automating 2D material exfoliation
Srinivasan, Sahana (presenter)	Poster #1036; 7/30 @ 10:30-11:30am	Evaluating the role of coniferyl alcohol and pinosresinol in lateral root density in Arabidopsis thaliana
Stall, Shelby (presenter)	Talk #9000; 7/27-7/31 virtually	Rosen Center for Advanced Computing Anvil REU Project #3- Elastic Cloud Scheduling for Anvil
Stall, Shelby (presenter)	Talk #9003; 7/27-7/31 virtually	Rosen Center for Advanced Computing Anvil REU Project #3- Elastic Cloud Scheduling for Anvil
Stanton, Carman (presenter)	Talk #7075; 7/30 @ 3:00pm	Modeling Thin Membrane Response to Time-Varying Forces
Stavig, Vincent (presenter)	Poster #1282; 7/30 @ 12:00-1:00pm	Modeling Vanadium Dioxide for Neuromorphic Computing
Steeves, Nicholas Audrie (presenter)	Poster #1102; 7/30 @ 10:30-11:30am	Synthesis of Dual-Action Inhibitors of HDAC-III and HIV Protease
Stef-Praun, Maia (presenter)	Poster #1518; 7/30 @ 1:30-2:30pm	Designing Microfluidic Chips for Accurate Neutralizing-Antibody Capture Using Magnetophoresis
Stemporzewski, Christopher Robert (presenter)	Poster #1283; 7/30 @ 12:00-1:00pm	Characterization of Cathodic Arc Neutralization for Hall-Effect Thruster Beams
Stephen, Korphiena Kimona (contributor)	Poster #1513; 7/30 @ 1:30-2:30pm	Experiential Learning: Developing Custom Assistive Technology Through Participatory Design and 3D-Printing
Stephen, Korphiena Kimona (presenter)	Poster #1519; 7/30 @ 1:30-2:30pm	ADAPT-E: Adaptive Donning and Attachment Platform Technology for Eating Utensils
Stephenson, Cory Berlin (acknowledgment)	Talk #7031; 7/30 @ 12:20pm	A Market-Driven Framework for Neutron Detection: Aligning Detector Technologies with Emerging Nuclear Applications
Stott, Conner B (presenter)	Poster #1115; 7/30 @ 10:30-11:30am	Gantry Camera Machine Vision Study
Suarez Monroy, Maria Jose (presenter)	Poster #1118; 7/30 @ 10:30-11:30am	Exploratory Analysis of Plasma Lipid Profiles in Largemouth Bass Across a PFAS Exposure Gradient
Suh, Cara (presenter)	Talk #7085; 7/30 @ 3:00pm	Bumblebee, a Foundation Model for Particle Physics Discovery
Sullinger, Emma (presenter)	Poster #1043; 7/30 @ 10:30-11:30am	Exploring Mechanisms of PFAS Plant Uptake: Diffusion
Sullivan, Adam James (contributor)	Poster #1051; 7/30 @ 10:30-11:30am	Identifying Fatigue Indicators in Cyclists' Bodies Over Time: A Kinematic and Subjective Multi-Modal Pilot Study
Sullivan, Lydia Jane (contributor)	Poster #1029; 7/30 @ 10:30-11:30am	Nonstructural Carbohydrates as Signatures of Local Adaptation in a Bur Oak Common Garden

Name (role)	Presentation	Title
Sun, Qingyang (contributor)	Poster #1065; 7/30 @ 10:30-11:30am	An Intelligent, High-Throughput Microfluidic Sorter for Drosophila melanogaster Embryos
Sundar, Abhaya (presenter)	Poster #1103; 7/30 @ 10:30-11:30am	Role of Moisture on the Thermal Stability of Sodium-Ion Batteries
Sury, Esha (presenter)	Poster #1323; 7/30 @ 12:00-1:00pm	Topological Properties of Multi-Species Exclusion Processes
Syed, Maheen (presenter)	Poster #1124; 7/30 @ 10:30-11:30am	Differential Vulnerability of Excitatory and Inhibitory Synapses to Acrolein-Mediated Oxidative Damage
Talamudipi, Mihir Samanyu (presenter)	Talk #7005; 7/30 @ 10:40am	Graph-Theoretic Observability and Redundancy Analysis for Large-Scale Water Treatment and Distribution Systems
Tallapaka, Pranav (contributor)	Talk #7002; 7/30 @ 10:40am	Event and Passing Detection for Football (Soccer)
Tallapaka, Pranav (presenter)	Talk #7076; 7/30 @ 3:20pm	Movement Pattern Analysis in Football (Soccer)
Tanabe, Austin Robert (presenter)	Poster #1037; 7/30 @ 10:30-11:30am	Heterologous Expression and Functional Characterization of Arabidopsis thaliana AGO1 and AGO4 in Gene Silencing
Tandon, Sarthak (contributor)	Poster #1469; 7/30 @ 1:30-2:30pm	Implement BiLSTM on FPGA for Anticipating Decoherence
Tang, Eric (presenter)	Talk #9020; 7/27-7/31 virtually	A Cloud-deployed Platform to Generate Expert-Annotated Data for AI-assisted Nursing Skills Assessment
Tay, Chee Ying (presenter)	Talk #7021; 7/30 @ 11:00am	Neural Network Predictors for Learning General Quantum Systems Environments
Tayloe, Laurel Frances (contributor)	Poster #1509; 7/30 @ 1:30-2:30pm	Claudin-4 as a Target for Fluorescent Surgical Imaging of Metastatic Cancer
Taylor, Shanell Andria (presenter)	Poster #1324; 7/30 @ 12:00-1:00pm	The Effect of Unit Distance on Flock Integration in Free-Range Laying Hens on Pasture
Tencza, Benjamin (contributor)	Talk #7055; 7/30 @ 1:20pm	NASA Hydrogen Drone Refueling Project
Thakker, Devikaa Prashant (presenter)	Poster #1520; 7/30 @ 1:30-2:30pm	Micro-CT Imaging and Segmentation of Chicxulub Impactite Samples
Thornburg, Brooke (presenter)	Talk #9021; 7/27-7/31 virtually	Analysis of Semaglutide Eligibility in Hospitalized Patients Receiving High Intensity Statins
Thotakura, Thanya (presenter)	Poster #1301; 7/30 @ 12:00-1:00pm	Pets in the Classroom: A Conventional Content Analysis of Teachers' Experiences with Classroom Pets
Timbang, Caihla (presenter)	Talk #7036; 7/30 @ 12:00pm	Review of Current Nursing Practice Regarding Phosphate Replacement Therapy Administration in an Intensive Care Environment
Tinga, Likhita (presenter)	Poster #1104; 7/30 @ 10:30-11:30am	The Impact of Colliding Deflagration Waves
Tirado Rojas, Stephanie (acknowledgment)	Poster #1281; 7/30 @ 12:00-1:00pm	Contribution of roots vs shoots to adaptive cold acclimation in Arabidopsis thaliana
Tiwari, Samridh (presenter)	Talk #7015; 7/30 @ 11:00am	Recovering Behaviorally-Relevant Neural Trajectories from Motor Cortex Using Dynamical and Probabilistic Models
Tomlin, Kaylani Le'mae (presenter)	Poster #1460; 7/30 @ 1:30-2:30pm	Methods to control zeolite framework atom removal and insertion in varying environments within the MFI topology
Torres, Daniel Angel (contributor)	Poster #1029; 7/30 @ 10:30-11:30am	Nonstructural Carbohydrates as Signatures of Local Adaptation in a Bur Oak Common Garden

Name (role)	Presentation	Title
Torres, Gabriel (presenter)	Poster #1461; 7/30 @ 1:30-2:30pm	Investigating the Integration of Dense Vision and Non-Traditional Sensing Modalities for Robust Robotic Perception
Trahin, Luke Alexander (presenter)	Poster #1296; 7/30 @ 12:00-1:00pm	Developing a Gate Boosted Pulse Generator to Drive Gas Discharge Tube Based Nonlinear Transmission Line System
Tran, Kai (presenter)	Poster #1038; 7/30 @ 10:30-11:30am	Dietary Fibers Suppress Clostridioides difficile in In Vitro Human Fecal Fermentation
Tran, Mai Khanh (presenter)	Poster #1105; 7/30 @ 10:30-11:30am	Extending Gradual CO to Support a Wider Variety of Programs
Tribout, Xavier Thomas Cedric (contributor)	Poster #1229; 7/30 @ 12:00-1:00pm	2D and 4D Ultrasound Assessment of Ejection Fraction in an Empagliflozin-Treated Murine Model of Duchenne Muscular Dystrophy
Triscari, Liliana (presenter)	Talk #7008; 7/30 @ 10:40am	Radar-Based Identification of Buried Lava Flows in the Moon's South Pole-Aitken Basin
Truong, Emily (presenter)	Poster #1217; 7/30 @ 12:00-1:00pm	Computational and Experimental Analysis of SAH Hydrolase inhibition by Adenosine Analogs
Tsai, Ronald Liu (presenter)	Talk #7017; 7/30 @ 11:40am	Building Morphosyntactic Networks for Precision Assessment and Intervention in Preschool-aged Children
Turnbull, Bella (presenter)	Poster #1019; 7/30 @ 10:30-11:30am	Mapping the RLCK Interactome in Tomato Immunity Using Proteomics
Turner, Branden (presenter)	Talk #9004; 7/27-7/31 virtually	Pelican as a Data Delivery Mechanism for HPC Workflows on Anvil
Tuttle, Xander L (presenter)	Poster #1302; 7/30 @ 12:00-1:00pm	Impact of Chronic Variable Stress on Neurobehavioral Function Following DMM Surgery in Mice.
Upreti, Dhruv (presenter)	Poster #1323; 7/30 @ 12:00-1:00pm	Topological Properties of Multi-Species Exclusion Processes
Urban, Dannah Rose (presenter)	Poster #1044; 7/30 @ 10:30-11:30am	Combating Anti-Transgender Misinformation with Psychological Interventions
Uribe, Camila (presenter)	Talk #7050; 7/30 @ 1:40pm	Fluid-Powered Autonomy: Embedded Fluidic Oscillators for Pneumatic and Hydraulic Soft Robots
Uyen, Vo (presenter)	Poster #1521; 7/30 @ 1:30-2:30pm	Acute Coronary Syndrome Comorbidity with Heart Failure in Elderly Patients
Vann, Halaya (contributor)	Talk #7035; 7/30 @ 12:40pm	Cellulose Nanocrystals as a Biotemplate for Gold Nanomaterial Synthesis
Vann, Halaya (presenter)	Talk #7062; 7/30 @ 2:40pm	Synthesis of biotemplated palladium-coated nanorods on cellulose nanocrystals
Varamballi, Shashank (presenter)	Talk #7026; 7/30 @ 11:40am	Design and Noise Characterization of a Low-Noise Voltage Preamplifier for Nanovolt-Scale Measurements
Vargas-Bernal, Tomas (presenter)	Poster #1522; 7/30 @ 1:30-2:30pm	Role of Delamination found in Microtrichia at the Elytral Interlocking Mechanism of the Diabolical Ironclad Beetle
Vaz, Anika (presenter)	Poster #1218; 7/30 @ 12:00-1:00pm	Characterizing the Role of Mouse Granzyme A in LPS-Mediated Inflammation
Vazquez Torres, Erick (presenter)	Talk #7007; 7/30 @ 10:20am	Pixel-Wise Gamma-Ray Coincidence Detection Using U-Net Convolutional Networks
Vempati, Rishab Sai (presenter)	Talk #7080; 7/30 @ 3:40pm	Beyond Task Completion: Training Computer-Use Agents to Evaluate Usability
Vengalloor Madhavan, Sreeram (presenter)	Poster #1462; 7/30 @ 1:30-2:30pm	Multimode Entanglement in Attosecond Controlled Squeezed Light

Name (role)	Presentation	Title
Venkatasubramanian, Harishramani (acknowledgment)	Poster #1441; 7/30 @ 1:30-2:30pm	Influence of Pore Morphology on Dehumidification Performance of Asymmetric Polyethersulfone Membranes
Venkateshwaran, Raveena (presenter)	Poster #1284; 7/30 @ 12:00-1:00pm	Identifying Drug Treatments for Functional Recovery After Spinal Cord Injury in Zebrafish
Vicente, Taylor Scott (presenter)	Talk #9022; 7/27-7/31 virtually	Evaluating Bayesian Optimization in Mixed-Variable Infrastructure Selection
Vigneshwaran, Akhilesh (presenter)	Poster #1039; 7/30 @ 10:30-11:30am	2-Dimensional Proteome Profiling for in-depth Tracking of Drug Interactions
Vo, Quang (contributor)	Poster #1492; 7/30 @ 1:30-2:30pm	Coronary Cyclical Cardiac-based Lesion Location and Cardiovascular Risk Factors vs Severity of Right Coronary Artery Stenosis
Vo, Quang (contributor)	Poster #1511; 7/30 @ 1:30-2:30pm	Wide Pulse Pressure and Reverse Flow in the Right Coronary Artery on Dynamic Coronary Angiography
Vuong, Julian (contributor)	Poster #1255; 7/30 @ 12:00-1:00pm	Exploration of Finetuning Methods for Deep Learning-Based Aortic Root Segmentation on Echocardiography
Vuong, Julian (contributor)	Poster #1401; 7/30 @ 1:30-2:30pm	Ultrasound Assessment of BAPN-Induced Thoracic Aortic Aneurysm Progression in Juvenile Mice
Vuong, Julian (presenter)	Talk #7010; 7/30 @ 10:20am	Beyond Diameter: Biomechanical Phenotyping of Pediatric Aortic Root Dilation Across Etiologies
Waddell, Cheyenne Renee (presenter)	Poster #1303; 7/30 @ 12:00-1:00pm	Hypoxia-Driven Lipid Uptake Increases Metastatic Potential
Wagner, Blaine Andrew (acknowledgment)	Poster #1017; 7/30 @ 10:30-11:30am	Investigating the Role of HTA8 in PKL-Dependent Chromatin Regulation and Development in Arabidopsis Thaliana
Walden, Clayton (presenter)	Poster #1463; 7/30 @ 1:30-2:30pm	Binding Frequency Mapping: A Broadly Applicable Structure for Comprehending Antibody Reactions in Various Viral Pathogens
Walther, Johanna (presenter)	Talk #7000; 7/30 @ 10:00am	Nanoscale Thermal Transport Mapping and Interfacial Constraints of Individual Layers for Titanium Carbide (Ti3C2Tx) MXene
Waltz, Emerson (presenter)	Poster #1106; 7/30 @ 10:30-11:30am	Evaluating the Effect of Framework Aluminum Distributions on the Hydrothermal Stability of Phosphorus-Modified MFI Zeolites
Wang, Bingrui Luke (acknowledgment)	Poster #1467; 7/30 @ 1:30-2:30pm	PFOA and PFOS exposure induce endothelial cell barrier disruption
Wang, Henan (presenter)	Poster #1285; 7/30 @ 12:00-1:00pm	Design and Automated Characterization Infrastructure for CMOS+X Integrated Systems
Wang, Minghan (presenter)	Poster #1107; 7/30 @ 10:30-11:30am	Automated Wafer-Level Electrical Testing Workflow for RRAM Characterization
Wang, Raina (presenter)	Talk #7035; 7/30 @ 12:40pm	Cellulose Nanocrystals as a Biotemplate for Gold Nanomaterial Synthesis
Wang, Raina (contributor)	Talk #7062; 7/30 @ 2:40pm	Synthesis of biotemplated palladium-coated nanorods on cellulose nanocrystals
Webb, Alexander (presenter)	Poster #1523; 7/30 @ 1:30-2:30pm	Tracing Independent Origins of Tyrosine Kinase Activity in the NEK Kinase Family

Name (role)	Presentation	Title
Webb, Megan (contributor)	Poster #1075; 7/30 @ 10:30-11:30am	Functionalization of DNA tetrahedra for in vitro testing of siRNA delivery across the Blood-Brain Barrier
Wei, Serena Yuanyuan (presenter)	Poster #1464; 7/30 @ 1:30-2:30pm	Experimental Design and Prototyping for TPMS Condensers in Data Centers
Weigand, Alissa (presenter)	Poster #1286; 7/30 @ 12:00-1:00pm	Predicting Intrinsic Clearance Through Quantum-Informed Embedding of Molecular Surface in Machine Learning
Weston, Nathan Daniel (presenter)	Poster #1009; 7/30 @ 10:30-11:30am	Lean-Enabled Robotic Additive Construction
Wevick, Makenna (presenter)	Poster #1045; 7/30 @ 10:30-11:30am	Modulating MicroRNA Expression to Elucidate Their Roles in Soybean Nodulation Using a Hairy Root System
White, Alana N (presenter)	Talk #7056; 7/30 @ 1:40pm	Investigating Zinc Incorporation During Zn-MFI Synthesis for Fuel and Chemical Production
Wilcox, Sophie J (presenter)	Poster #1465; 7/30 @ 1:30-2:30pm	The Role of ARHGAP21 in the Egg-to-Embryo Transition of Mammalian Metaphase II Oocytes
Wilkinson, Katie (presenter)	Poster #1287; 7/30 @ 12:00-1:00pm	Characterizing Optical Radiation in Solid Fuel Ramjets
Williams, Ryan James (presenter)	Poster #1108; 7/30 @ 10:30-11:30am	Tensioned Metastable Fluid Detection for High-Efficiency Rn-222 Analysis in Drinking Water at Ultra-Trace Concentrations
Włodarczyk, Mateusz (presenter)	Poster #1505; 7/30 @ 1:30-2:30pm	Understanding Coronary Artery Disease and Atherosclerosis Through the Language of Fluid Dynamics
Wong, Leah (presenter)	Poster #1020; 7/30 @ 10:30-11:30am	Regulation of terpene biosynthesis in <i>Nicotiana tabacum</i> by an isopentenyl diphosphate transporter
Wu, Lucas Bin Fan (contributor)	Poster #1065; 7/30 @ 10:30-11:30am	An Intelligent, High-Throughput Microfluidic Sorter for <i>Drosophila melanogaster</i> Embryos
Wu, Ryan (presenter)	Poster #1109; 7/30 @ 10:30-11:30am	An Integrated Processing and Interference Quality-Check Tool for Drone-Collected Synthetic Aperture Radar Data
Xia, Lorelei B (presenter)	Poster #1288; 7/30 @ 12:00-1:00pm	Characterization of Benzothiazolium Ligand Binding to MYC G-quadruplex DNA using Biophysical Methods
Xiu, Junyi (acknowledgment)	Poster #1472; 7/30 @ 1:30-2:30pm	Educational Gap Analysis of SCALE HIAP Course Content Using Educational Mapping
Xiu, Junyi (acknowledgment)	Poster #1474; 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis of SCALE Educational Resources for System-on-Chip Workforce Development
Xiu, Junyi (presenter)	Poster #1478; 7/30 @ 1:30-2:30pm	Curriculum Gap Analysis for SCALE Radiation-Hardening Technical Vertical
Xiu, Junyi (acknowledgment)	Talk #9006; 7/27-7/31 virtually	Systematic Gap Analysis for SoC Curriculum Development
Yadav, Sahil (presenter)	Talk #9023; 7/27-7/31 virtually	Heuristic-Based Chemoenzymatic Retrosynthesis Planner for Complex Chemicals in Drug Manufacturing
Yaguchi, Ty Richard (presenter)	Poster #1466; 7/30 @ 1:30-2:30pm	Optimization of solvent based direct recycling for electrode delamination
Yakkundi, Ambhranee (presenter)	Talk #7073; 7/30 @ 2:20pm	Effects of Cancer-Associated Fibroblasts on Pancreatic Cancer Cell Migration Under Hypoxic Conditions
Yang, Eric Y (presenter)	Poster #1467; 7/30 @ 1:30-2:30pm	PFOA and PFOS exposure induce endothelial cell barrier disruption

Name (role)	Presentation	Title
Yang, Jennifer Hyerin (presenter)	Poster #1524; 7/30 @ 1:30-2:30pm	Task Design Effects on Student Knowledge Prioritization in CRISPR Gene-Therapy Tasks
Yang, Melody Christine (presenter)	Poster #1501; 7/30 @ 1:30-2:30pm	Automated Image Correlation Analysis of Particle Impact for Solid Particle Erosion
Yang, Ruoqin Rachel (presenter)	Poster #1110; 7/30 @ 10:30-11:30am	Analysis of temperature-sensitive mutations in <i>Salmonella typhimurium</i>
Yang, Ruoqin Rachel (acknowledgment)	Talk #7053; 7/30 @ 1:40pm	Thermosensitive Histidine Dehydrogenase (HisD) Mutants in <i>Salmonella typhimurium</i>
Ye, Feng (presenter)	Poster #1111; 7/30 @ 10:30-11:30am	Smart PPG Earring for Multi-Modal Eating Detection and Dietary Monitoring
Yee, Helen (presenter)	Talk #7022; 7/30 @ 11:20am	Evaluating the Cardiotoxicity of Doxorubicin Using 4D Echocardiology
Yin, Chenrui (presenter)	Talk #7049; 7/30 @ 1:20pm	Socioeconomic Status as a Moderator of ACT Outcomes in Caregivers of Children with Neurogenetic Conditions
Yoon, Sunny (presenter)	Poster #1125; 7/30 @ 10:30-11:30am	Validating Eye-Tracking Biomarkers for Autism Diagnosis in Low- and Middle-Income Countries
Yoshitomi, Kotoe Jodie (presenter)	Poster #1119; 7/30 @ 10:30-11:30am	Comparing the Accuracy of Transcondylar Screw Placement Between Drill Bit and K-wire in Canine Humeral Condyle
Yue, Kai-Xing (presenter)	Poster #1112; 7/30 @ 10:30-11:30am	Experimental Metathesis Low-salt-rejection Reverse Osmosis for Improved Resource Recovery
Zambrano, Eloise (presenter)	Poster #1468; 7/30 @ 1:30-2:30pm	Cas12a-Assisted Precise Targeted Cloning and Characterization of <i>Nonomuraea candida</i> NRRL B-24552 Biosynthetic Gene Cluster
Zeng, Zihan O (presenter)	Poster #1289; 7/30 @ 12:00-1:00pm	SCOUT: An in-vivo Methane Sensing System for Real-time Monitoring of Enteric Emissions in Cattle
Zhang, Adam (contributor)	Poster #1483; 7/30 @ 1:30-2:30pm	Reinforcement Learning for fixed-wing path planning with feasibility evaluation
Zhang, Boyang (presenter)	Talk #7002; 7/30 @ 10:40am	Event and Passing Detection for Football (Soccer)
Zhang, Boyang (contributor)	Talk #7076; 7/30 @ 3:20pm	Movement Pattern Analysis in Football (Soccer)
Zhang, Caleb Enos (presenter)	Poster #1469; 7/30 @ 1:30-2:30pm	Implement BiLSTM on FPGA for Anticipating Decoherence
Zhang, Eunice (presenter)	Poster #1046; 7/30 @ 10:30-11:30am	Exposure to Online Content and the Perceived Violence of Religious Outgroups
Zhang, Francine Yu He (presenter)	Poster #1290; 7/30 @ 12:00-1:00pm	Fabrication and Characterization of Injectable and Microporous Hydrogels for Potential Applications in Wound Healing
Zhang, Haoyu (contributor)	Poster #1258; 7/30 @ 12:00-1:00pm	Deployment of Autonomous and Passive Micro-Morphing Aerial Vehicles (MMAVs)
Zhang, Jacob Junjie (presenter)	Poster #1325; 7/30 @ 12:00-1:00pm	Assessment of Grasping Pipelines for Assistive Robotic Manipulation
Zhang, Lucia X (presenter)	Poster #1113; 7/30 @ 10:30-11:30am	Differential Gene Expression Signatures Define Individual Vulnerability to Environmental Toxins in Alzheimer's Disease
Zhang, Richard Z (presenter)	Poster #1525; 7/30 @ 1:30-2:30pm	Comparison of Correlation, Distribution, and Concentration of Metals and Trace Elements in AD and Healthy Human Brain Tissue
Zheng, William (presenter)	Talk #7055; 7/30 @ 1:20pm	NASA Hydrogen Drone Refueling Project
Zhuang, Yuxin (contributor)	Poster #1206; 7/30 @ 12:00-1:00pm	Production of Bispecific T-Cell Engagers in Rosetta-gami 2 (DE3) Cells

Name (role)	Presentation	Title
Zucek, Addison Francis (contributor)	Poster #1412; 7/30 @ 1:30-2:30pm	HEROIC: Heterogeneous Robot Intelligence through Conceptual Communication and Gradient-based Control