

The background of the entire page is a solid orange color. Overlaid on this background is a repeating pattern of white hexagons. Inside some of these hexagons are smaller white geometric shapes, including squares, circles, and plus signs, creating a complex, molecular-like or circuit-like pattern.

RIT

Undergraduate

Research Symposium

2026

Thursday, July 30, 2026

8:00am to 4:00pm

Student Hall of Exploration & Development – RIT Campus

General Agenda

Start Time	End Time	Event	Location
8:00 AM	9:00 AM	Check-in & Continental Breakfast*	SHED Main Atrium
9:00 AM	9:45 AM	Welcome Remarks & Keynote Speaker - Kevin Surace "Generative AI in Corporate America"	SHED Sklarsky Glass Box Theater
10:00 AM	11:15 AM	Oral Presentations Session 1	SHED Classrooms
10:30 AM	11:30 AM	Poster Presentations Session 1	SHED Lower and Main Atrium
11:30 AM	12:45 PM	Oral Presentations Session 2	SHED Classrooms
11:30 AM	1:30 PM	Open Lunch*	SAU 1300- Davis Room
1:45 PM	3:00 PM	Oral Presentations Session 3	SHED Classrooms
3:00 PM	4:00 PM	Poster Presentations Session 2	SHED Lower and Main Atrium

* Breakfast and Lunch for those registered by 7/23/26

2026 Sponsors

Keynote Speaker



Kevin Surace

Innovator, Producer, Entrepreneur, Futurist.
“Generative AI in Corporate America”

Kevin is the father of the AI Virtual Assistant and a Silicon Valley innovator, serial entrepreneur, CEO, and futurist. He was INC Magazines’ Entrepreneur of the Year, a CNBC top Innovator of the Decade, World Economic Forum Tech Pioneer, Chair of Silicon Valley Forum, Planet Forward Innovator of the Year nominee, featured for 5 years on TechTV’s Silicon Spin, and inducted into RIT’s Innovation Hall of Fame. He has 95 worldwide patents and led pioneering work on the first cellular data smartphone (AirCommunicator), the first human-like AI virtual assistant (Portico), soundproof drywall, high R-value windows, AI-driven building management, Generative AI for QA automation, supply-chain auctions, and the window/energy retrofits of the Empire State Building and NY Stock Exchange. His upcoming book titled *The Joy Success Cycle* changes the way people act and think every day, leading to more fulfillment and life success.

Oral Presentations

SHED - 3300

Biology, Microbiology and Health Sciences

Session Chair(s):
Crista Wadsworth

10	Leah Robinson	Crista Wadsworth	Multomics Analysis of <i>N. gonorrhoeae</i> FA6140 under Penicillin Exposure
10:15	Micada Narayan	Elena Lopez Peredo	Biotechnological Restoration of <i>Zostera marina</i> via Microbiome Analysis
10:30	Rachel Smith	Janet Lighthouse	Effects of High Glucose on Fat Storage and Gut Permeability in <i>C. elegans</i>
10:45	William Lin	Nourridine Siewe	Parameter Estimations and Sensitivity Analysis of a Data-Driven Mathematica

Chemistry and Materials Science

Session Chair(s):
Matt Miri

10:30-11:30 POSTER SESSION 1 (SHED Atriums)			
11:30	Eddie Dykes	Matt Miri	Properties of Biodegradable Aliphatic-Aromatic Polyesters
11:45	Harold Purcell	Matt Miri	Syntheses of Biodegradable Aliphatic-Aromatic Polyesters
12:00	Jon Dixon	Ke Xu	OEEF Induced Decomposition of Azide Functional Groups

11:30-1:30 LUNCH (Davis Room SAU)

Chemistry and Materials Science

Session Chair(s):
Brian Landi

1:45	Joel Thompson	Brian Landi	Ultra High Areal Capacity Cathodes with CNT Additives
2	Christian Mayer	Brian Landi	High Areal Capacity and Enhanced Rate Capability in Germanium-NP Anodes
2:15	Christian Edick	Hans Schmitthenner	From Bacteriochlorin to Tookad: A Stable, Water-soluble agent for PDT
2:30	Samara de Souza	Hans Schmitthenner	Optimizing Photosynthetic Pigment Production in <i>Rhodobacter Sphaeroides</i>

3:00-4:00 POSTER SESSION 2 (SHED Atriums)

Oral Presentations

SHED - 3350

Engineering
Session Chair(s):
Karl Hirschman

10	Ben Fass	Karl Hirschman	Exploration of silicon nitride layer in the SiOG manufacturing process
10:15	Harmonie Sango	Karl Hirschman	Development of Thin Film processes for courses in CMOS manufacturing
10:30	Patrick Killian	Kathleen Lamkin-Kennard	Analysis of Molded McKibben Muscles

10:30-11:30

POSTER SESSION 1 (SHED Atriums)

Biomedical Eng/Bioimaging

11:30	Connor Spence	Ivan Puchades	Design and Fabrication of Graphene-based Electrodes for EEG Sensing
11:45	Grace Knapp	Ivan Puchades	Residual Stress Control for MEMS Micromirrors in Astronomical Spectroscopy
12	Nicholas DiFabio	Ivan Puchades	Lithography Process Optimization for Atomically Thin Two-Dimensional FETs
12:15	Cooper Ebbesen	Ivan Puchades	DC and RF Characterization of Graphene FET Devices for Circuit Design

Engineering

Session Chair(s):
Ivan Puchades

11:30-1:30

LUNCH (Davis Room SAU)

Mathematics and Statistics

Session Chair(s):

1:45	Ehan Fayaaz Faruque	Basca Jadamba	A reduced-order framework for a parameter identification problem
2	Lakshmi Hari	Nourridine Siewe	How does governance affect development in resource rich countries?
2:15	Umami Moalim	Craig Smith	Comparative Analysis of Interest Free vs Conventional Banking Models
2:30	Mahmoud Ahmed	Nikisha Alcindor	Thinking Alike: Dominant Logic Similarity in Mergers and Acquisitions

Business, Economics, Management and Finance

3:00-4:00

POSTER SESSION 2 (SHED Atriums)

Oral Presentations

SHED - 4300

Software/App Development

10	Ismael Anwar	Daqing Hou	Evaluating Requirement Completeness in AI Software Engineering Agents
10:15	Max Weisman	Daqing Hou	Specification driven agent code generation
10:30	Calvin Kan	Reynold Bailey, Cecilia Alm, Hakyung Sung	Model Cross-Comparison of Lexical Diversity in LLM Responses to ELL Writing
10:45	Pranav Gunhal	Zhe Yu	Benchmarking Attribution Faithfulness in LLMs for PII Detection
11	Mackenzie Baker	Zhe Yu	Introspective LLMs

10:30-11:30

POSTER SESSION 1 (SHED Atriums)

AI, Machine Learning and Modeling

Session Chair(s):
Nishant Malik

11:30	Nabeel Ahmed	Nishant Malik	Understanding Violent Crime in Rochester Through Network Science
11:45	Jonathan Twaddell	Nishant Malik	The Impact of Network Topology on Collective Opinion Dynamics
12	Abhidipto Chakraborty	Ashique KhudaBukhsh	LLM Rewrite Monotonicity - How do iterative rewrites affect text quality?
12:15	Jollen Dai	Ashique KhudaBukhsh	Group Bias in an Aligned LLMs Is Compensable, Not Removable
12:30	Mamadou Bah	Elissa Weeden	Generative AI to Support English as a Second Language College Students

11:30-1:30

LUNCH (Davis Room SAU)

AI, Machine Learning and Modeling

Session Chair(s):
Shehan Jayasekera

1:45	Martin Bassett	Shehan Jayasekera	Incorporating Gen AI into MECE Curriculum
2	Miguel Pinero-Jacome	Nidhi Rastogi	Robustness of LLM Cybersecurity Agents to Adversarial Security Logs
2:15	Xuning Ying	Nidhi Rastogi	Temporal Evidence Localization for Video XAI Methods
2:30	Ibraheem Tareen	Ben Zwickl	Analyzing the State of the Quantum Job Market using Text Embeddings

3:00-4:00

POSTER SESSION 2 (SHED Atriums)

Oral Presentations

SHED - 4350

Physics and Astronomy

Session Chair(s):
Neeraj Buch

10	Sydney Williams	Jeyhan Kartaltepe	Characterization of $z > 6$ Dusty Star-Forming Galaxies with SED Modeling
10:15	Brett Renaud	Jeyhan Kartaltepe	Tracing Galaxy Mergers Across Cosmic Time Using JWST COSMOS-Web Imaging
10:30	Andres Becerra	Jeyhan Kartaltepe	Investigating Galaxy Populations Out to Cosmic Noon with POPPIES
10:45	Zane Brown	Jeyhan Kartaltepe	Transfer Learning with SpecPT for Identification of Broad Line AGN

10:30-11:30

POSTER SESSION 1 (SHED Atriums)

Physics and Astronomy

Session Chair(s):
Andrew Robinson

11:30	Onnie Knott	Andrew Robinson	Effects of BLR structures and Chemical Abundance on Line Profile Shapes
11:45	Katrina McMaster	Andrew Robinson	Investigating Black Hole Masses in High-Redshift JWST AGN Using BELMAC
12	Sarah Bach	Andrew Robinson	Structure and Dynamics of the Broad Line Region in Active Galactic Nuclei

11:30-1:30

LUNCH (Davis Room SAU)

Physics and Astronomy

Session Chair(s):
Michael Richmond

1:45	Yadhira Andrade	Micheal Richmond	Investigating Flare Activity in EV Lacertae
2	Lyla Benesh	Ben Zwickl	From classical to quantum sensing: Expert definitions and quantum advantage
2:15	Zoey Sugerman-Brozan	Byron Erath	Erosion Patterns from the Oblique Impact of a Vortex Ring on a Sediment Bed
2:30	Meredith Smith	Nicole Melso	Characterization of Stellar Cluster Populations in Minkowski's Object
2:45	Rosa Goncalves P.	Joshua Faber	Light on a Curve: Approximating Photon Trajectories Around a Black Hole

3:00-4:00

POSTER SESSION 2 (SHED Atriums)

Poster Presentations

SHED Atriums 3D Bioprinting

Poster	Researcher	Advisor	Title	Time
100	Uchechi Chukwuemeka	MD Ahasan Habib	Characterizing Piezoelectric Material filled hydrogel for 3D Bioprinting	10:30-11:30
101	Nam Huynh	Cecilia Alm, Sophia Caruana, Reynold Bailey	Visualization of Wearable Sensor Data from Meta Glasses	3-4
102	Thinh Huynh, Rahul Revanna, Lavanya Kapoor	Kean Wu	Find Me If You Can: Resolving Corporate Identity	10:30-11:30
103	Aditya Aysola	Pritam Ganguly	Integrating Pfizer's CNS MPO into LIMO for CNS Drug Candidate Generation	3-4
104	Thomas Wills II	Amlan Ganguly	Characterizing Operating System Noise to Enhance NoC Application Detection	10:30-11:30
105	Kevin Chen, Peter Delacourt, Sasmit Mishra	Rajendra Raj	DEFQUAN: Defending Against Quantization Attacks on Large Language Models	3-4
106	Philip Minardo	Nikisha Alcindor	The Future of Predicting M&A's	10:30-11:30
107	Abdul Moiz	Feng Cui	Sex-Specific Machine Learning Models for Bladder Cancer Prognosis	3-4
108	Aria Nolan	Hwan Shim	Machine Learning for Audio Applications on the Teensy Microcontroller	10:30-11:30
109	Arjun Kumar	Hakyung Sung, Reynold Bailey, Cecilia Alm	Do LLMs Preserve Lexical Diversity in English and Korean L2 Writing?	3-4
110	Jack Foreback	Alexander Ororbia, Reynold Bailey, Cecilia Alm	Recurrent Spiking Predictive Coding for Sparse Representations	10:30-11:30
111	Pranav Gunhal		Unreel: A Progressive Intervention System for Short-Form Video Scrolling	3-4

AI, Machine Learning and Modeling

Poster Presentations

SHED Atriums

AI, Machine Learning and Modeling

Poster	Researcher	Advisor	Title	Time
112	Parsa Smiley	Amlan Ganguly	Application Fingerprinting via NoC Routing Signatures in RISC-V Processors	10:30-11:30
113	Anne Lippard	Reynold Bailey, Alexander Ororbia, and Cecilia Alm	Impact of Utilizing Spiking Neurons on Sparsity	3-4
114	Hazal Sahin	Jamison Heard, Cecilia Alm, Reynold Bailey	Physiological vs. Self-Reported Cognitive Load With Social Robots	10:30-11:30
115	Emily Vanegas	Nidhi Rastogi	Analyzing LLM Failures in MITRE ATT&CK Technique Extraction	3-4

Art, Design, Games and Digital Media

116	Bella Paniccia	Juilee Decker, Samaya Nasr	Curating Time-Based Art and the Challenge of Authenticity	10:30-11:30
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Bioinformatic Biology and Biochemistry

117	Leah Crain, Aizlynn Harkleroad	Aaron Nieboer	Lanternbearer: Elegy of Light	3-4
118	Meera Mamik	Pritam Ganguly	Tau-Synuclein Co-Aggregation: A Molecular Dynamics Study	10:30-11:30

Biology, Microbiology and Health Sciences

119	Marala Perinpanayagam	Lea Vacca Michel	Using engineered extracellular vesicles to produce nanoscale glass lenses	3-4
120	Emily Wood	Todd Camenisch	Revumenib: A Novel Treatment in NPM-Mutated R/R Acute Myeloid Leukemia	10:30-11:30
121	Huy Le	Andre O. Hudson	A generalized sequence-to-spatial framework for enzyme evolution	3-4
122	Katherine Wood	Todd Camenisch	Brentuximab Vedotin (ADCETRIS): A Hodgkin's Lymphoma CD30-Targeted Therapy	10:30-11:30
123	Meghan Bell	Crista Wadsworth	Examining the Role of Plasmids in Commensal Neisseria Antibiotic Resistance	3-4
124	Amaal Bohnas, Clara-Zofia Gawlowicz	Todd Camenisch	Optimization of C. elegans Conditions Under Arsenic Neurotoxicity	10:30-11:30
125	Veronica Maynard	Lea Vacca Michel	Extracellular Vesicle Production in Uropathogenic and Probiotic E. coli	3-4
126	Nori Butler	Todd Camenisch	Nab-Paclitaxel in Gastric Cancer: Delivery Through a Better Package	10:30-11:30

Poster Presentations

SHED Atriums

Biology, Microbiology and Health Sciences

Poster	Researcher	Advisor	Title	Time
127	Himani Patel, Soren Orcutt, Ethan Carver	Stefan Schulze	Glycoproteomic Analysis of Diverse <i>Pseudomonas aeruginosa</i> Strains	3-4
128	Samantha Paniccia	Todd Camenisch	Programming epicardial cell migration via topography and mechanical memory	10:30-11:30
129	Haneefa Wahab	Janet Lighthouse	Developing Assays to Evaluate Metabolic Stress Response in <i>C. elegans</i>	3-4
130	Leon Lin	Todd Camenisch	Gastrointestinal Stromal Tumors (GISTs) Drug Overview	10:30-11:30
131	Jenna Kwan	Stefan Schulze	Optimizing Biofilm Sampling for <i>Pseudomonas aeruginosa</i> Glycoproteomics	3-4
132	Careena Sondhi	Todd Camenisch	PDAC and Direct KRAS Inhibitors	10:30-11:30
133	Ian McMullen	Lea Vacca Michel	Characterizing a protein vaccine for protection against NTHi infection	3-4
134	Marissa Abramson	Todd Camenisch	RYBREVANT: New Targeted Chemotherapeutics for NSCLC	10:30-11:30
135	Garrett Meehan	Lea Michel	Characterizing EVs from Gram- Negative and Gram-Positive Bacteria	3-4
136	Garrett Jones, Joanna Killinni	Janet Lighthouse	Effects of Glucose and SGLT-2i Treatment on Gene Expression in <i>C. Elegans</i>	10:30-11:30
137	Rebecca Miralrio	Bolaji Thomas	Evolutionary dynamics of HA gene in global H5N1 virus reassortment	3-4
138	Emma Morris	Hans Schmitthenner	Optimized Synthesis of Tookad from <i>R. sphaeroides</i> Derived Bacteriochlorin-a	10:30-11:30
139	Portia Castro	Elena Peredo	Tracking Algal Lineages in Spotted Salamander Eggs	3-4
140	Hunter Lippold	Pritam Ganguly	Engineering Cell-Penetrating Peptides for Selective Cancer Drug Delivery	10:30-11:30

Poster Presentations

SHED Atriums

Poster	Researcher	Advisor	Title	Time
141	Sway Issifou	Bolaji Thomas	Molecular Surveillance and Conservation of the Pfs230 D3 Vaccine Candidate	3-4
142	Kaitlyn Stearn	Elle Barnes	Isolation of Mucin-Based Bacteria from Salamander and Environmental Sources	10:30-11:30
143	Meghan Nardone	Lea Vacca Michel	Development of Extracellular Vesicle-Based Vaccine to Prevent Ear Infection	3-4
144	Abby Finchum	Elle Barnes	Fungal microbiomes of Ambystomid hosts and their environmental reservoirs	10:30-11:30
145	Carmen Darsie	Julie Thomas	Optimization of Bacteriophage Preparation for Electro Kinetic Experiments	3-4
146	Miguel Basti Silvestre	MD Ahasan Habib	Biocompatibility study of photocrosslinkable hydrogels	10:30-11:30
147	Liam Regan, Lee Cornell	Krittika Goyal	Flexible Piezoelectric Sensors For Continuous Respiration Monitoring	3-4
148	Jonathan Boctor	Michael Richards	Characterizing Vocal Fold Phantom Vibrations Using US and HS Imaging	10:30-11:30
149	Jacqueline Gill	Karin Wuertz-Kozak	Analysis of altered matrix stiffness in virus-induced fibrosis research	3-4
150	Edgar Lopez Villegas	Zhongwang Dou	Patient specific stent design and simulation	10:30-11:30
151	Maggie Wascovich, Sarah Taylor	Tom Gaborski	Influence of GLP-1 on reducing endothelial stimulation after BEV exposure	3-4
152	Scarlet Jackson	Tom Gaborski	Antibacterial Properties of Hop-derived EVs on Gram Positive Bacteria	10:30-11:30
153	Alyssa Rzasa	Karin Wuertz-Kozak	Initial Exploration of Plant-Derived EVs for the Treatment of Lung Fibrosis	3-4
154	Liam Brown	Karin Wuertz-Kozak	CRISPR-Based Fluorescent Tagging for EV Characterization and Isolation	10:30-11:30

Biology, Microbiology and Health Sciences

Biomedical Engineering and Bioimaging

Poster Presentations

SHED Atriums

Biomedical Engineering and Bioimaging

Poster	Researcher	Advisor	Title	Time
155	Owen Faust	Thomas Gaborski	Shear Stress Regulates Endothelial ICAM-1: Image and Texture Analysis	3-4

Chemistry & Materials Science

156	Mariam Rainauli	Paul Craig	Python Integrated Chemistry Learning: How to Engage Students of Chemistry	10:30-11:30
157	Zachary Hill, Zach Burpee, Michael Grant	Poornima Padmanabhan	Exploring Helical Polymer Self-Assembly Through Active Learning	3-4
158	Carolynn Mish	Nathan Eddingsaas	Quantifying Microplastic Shedding from Polypropylene Takeout Containers	10:30-11:30
159	Avery Antonacci	Jairo A. Diaz	Colloidal Size Control Through Condition Matching	3-4
160	Nikita Robinson	Lea Vacca Michel	Extracellular Vesicles as Countermeasures to Pathogen-Induced Inflammation	10:30-11:30
161	Orazio Ippolito	Jairo A. Diaz Amaya	Colloidal Crystallization Inhibition through Photopolymerization Gradients	3-4
162	Adam Vining-Recklitis	Poornima Padmanabhan	Investigation of PIPS with POEA and a solvent	10:30-11:30
163	Sabrina Tivedo	Nathan Eddingsaas	Characterizing E-Liquids Using Chromatography and NMR	3-4
164	Brooke Moran	Christopher Lewis	Investigating Characterization of UV Vat Polymerization 3D Printing Kinetic	10:30-11:30
165	Natalie Bedolla-Mortensen	Jairo A. Diaz A.	Optimizing Bulk Polymerization of Colloids Exhibiting Controlled Morphology	3-4
166	Madison Newsome	Jeremy Cody	Development of Folate-Targeted Multimodal Dye Conjugates for Cancer Imaging	10:30-11:30
167	Carl Tsegah, Patrick Oliver, Samara De Souza, Keenan Repicky	Scott Williams	Exploring Surfactant Effects on Selenium Nanowires	3-4
168	Emerson Blin	Jian Liu	Refining the Synthesis of the Metal Organic Framework PCN-222	10:30-11:30

Poster Presentations

SHED Atriums

Chemistry and Materials Science

Comp Science, Theory, Math and Algorithms

Cultural Heritage Imaging and Research

Deaf/Hard of Hearing (DHH), Accessibility and Inclusion

Poster	Researcher	Advisor	Title	Time
169	Sergio Aaron Serrano	Lea Vacca Michel	Isolation and Characterization of Grape-Derived Extracellular Vesicles	3-4
170	Kaitlyn Sheinhart, Lam Mach	Lea Vacca Michel	Development and Characterization of an Extracellular Vesicle-Based Vaccine	10:30-11:30
171	Ava Campos	Nathan Eddingsaas	Investigative and chemical analysis on the darkening of e-liquid components	3-4
172	Evan Sharp-Ballinger	Varsha Dani	Python tool for Testing Congested Clique Algorithms	10:30-11:30
173	Iris Angello, Carter Laubach	Karen Braun	Digital Twins of Cultural Heritage Artifacts	3-4
174	Katie Lawson	Juilee Decker	Data Driven and Art Historical Analysis of Harry William's Career	10:30-11:30
175	Patrick Showers	Juilee Decker	Applying and Making MISHA Accessible to Local and State History Museums	3-4
176	Emily Taylor	Jamison Heard, Reynold Bailey, Cecilia Alm	Perceptions of Trust in an Assistive Robot for d/DHH Students	10:30-11:30
177	Nickolas Slayter	Reynold Bailey	Preferences in Multimodal Communication: Social Robots for d/DHH Students	3-4
178	Anastasia Falkowski	Matt Dye	Improving Identification of Cortical Auditory Evoked Potential Components	10:30-11:30
179	Alexandra Cassella	Juliee Decker	Metadata & Folksonomy of the MISHA System: Making Collections Accessible	3-4
180	Jovan Champ	Reynold Bailey	Analyzing lexical diversity of LLM-L2 texts across models parameters	10:30-11:30

Poster Presentations

SHED Atriums

Engineering

Environmental Science and Sustainability

Poster	Researcher	Advisor	Title	Time
181	Ian Alexis Frias Lara	Amanda Bao	Resiliency of Integral Abutment Bridges under Natural Disasters	3-4
182	Colten Vincent, Erik Callejas	Steven Weinstein	Designing Novel Chemistry for Manufacturing	10:30-11:30
183	Tiana Allen	Denis Cormier	Development of a 3D-Printed Vibratory Bowl Feeder	3-4
184	Jason Chen	MD Ahasan Habib	Controlling Mechanical Properties of FDM parts with Math-Based Infill	10:30-11:30
185	Priya Musuku	Isaac Bernabe Perez Raya	Transient Fluid Flow Simulation of a Gear Pump with Narrow Gap Regions	3-4
186	Hajer Enaami, Natalie Pflum	Tom Gaborski	Optimization of AEX Following TFF for Purification of E.coli EVs	10:30-11:30
187	Syed Azmain Sultan	Yangming Lee	Touch Before You Grasp: Tactile- Guided Compliant Robotic Sorting	3-4
188	Sharif Jafari	Jun Han Bae	ROV (Remotely Operated Vehicle)- based Microplastic Sampling System	10:30-11:30
189	Remy Terjanian	Hwan Shim	Open-source neuro-steered hearing device prototype using EEG	3-4
190	Sam Gitelson	Hwan Shim	Gamified neurofeedback training using LSL between a ¼Controller and MATLAB	10:30-11:30
191	JX MacMillan	Hwan Shim	Earbud-type electroencephalography device for smartphones	3-4
192	Sierra Stonehouse	Carmody McCalley	Characterizing the impacts of EAB on nutrient cycling in forested wetlands	10:30-11:30
193	Rebecca Leonard	Elena Lopez Peredo	A Novel Process to Depollute Water Using Terrestrial Soil Microalgae	3-4
194	Sofia Lin-Liang	Karl Korfmacher	Effects of Diet on Black Soldier Fly Larvae in Biofuel Production	10:30-11:30

Poster Presentations

SHED Atriums

Environmental Science and Sustainability

Poster	Researcher	Advisor	Title	Time
195	Andrew Secor	Karl Korfmacher	Effects of Organic Soil Amendments on Plant Growth	3-4
196	Allison Zon	Kaitlin Stack Whitney	Habitat quality of RIT greenspaces for bees and butterflies	10:30-11:30
197	Julia Bognaski, Andrew Meyer	Anthony Leggiero	Rheoimpedence Studies for the Development of Lithium-Ion Anode Slurries	3-4
198	Elliott Hogan, Joseph Pili, Kadence Ostheller	Howard Tu	Improving Energy	10:30-11:30
199	Isabelle Leonard, Maddie Mason	Christy Tyler	Environmental Drivers of Biofilm Development on Plastics in Freshwater	3-4
200	Sophia Leonard	David Messinger	Quantitative Principal Component Analysis in Cultural Heritage Imaging	10:30-11:30
201	Ducheng Tan	Michael Cromer	Inverse Approximation of Extensible Freely Jointed Chain	3-4
202	Lun Kong	Michael Cromer	Capillary Thinning of Thixotropic Elastoviscoplastic Fluids	10:30-11:30
203	Clara Hardison	Lucia Carichino	Modeling the Effects of Realistic Ocular Shapes on Contact Lens Wear	3-4
204	Christis Shepard	Juilee Decker	From the Palace to the Polis; A Digital Exhibit of Aegean Womenhood	10:30-11:30
205	Nkodia Ndongala	Diana Sachmpazidi	Graduate Student Experiences with Traditional Teaching in Physics Courses	3-4
206	Harlow Kung	Scott Franklin	The Space Inside a Haystack: Voids and Paths in Packed Rods	10:30-11:30

Imaging Science

Mathematical Modeling

Museums, Archeology and Women's Studies

Physics and Astronomy

Poster Presentations

SHED Atriums

Poster	Researcher	Advisor	Title	Time
207	Jesse Knott	Mike Zemcov	Modeling THEMIS using CIBER-2 Designs	3-4
208	Shivani Hancock	Jie Qiao	Fabrication of 3D Waveguides Using Ultra-fast Laser Inscription	10:30-11:30
209	Will Szalay	Jeyhan Kartaltepe	Machine Learning Applications for Identifying Gravitational Lenses	3-4
210	Josh Lanka	Michael Zemcov	Simulating The Extragalactic Sky	10:30-11:30
211	Maddi Williams	Diana Sachmpazidi	What Sustains Change? An Investigation of Physics Program Culture	3-4
212	Mia Gerber	Michael Zemcov	Implementing Raster Scanning to Collect Intensity Data of a Simulated Sky	10:30-11:30
213	Mallory Cooper, Nishi Vesuwala, Michael Surowiec	George Thurston	X-ray scattering and mass spectrometry of eye lens protein mixtures	3-4
214	Kohl Shepherd, Md Sorique Aziz Momin	Lishibanya Mohapatra	Computational Modeling of the Life Cycle of Epithelial Microvilli	10:30-11:30
215	Savannah Head	Joshua Faber	A Dance with Darkness: Light Trajectory Around a Black Hole	3-4
216	Samantha Lichtenstein	Michael Zemcov	Using SPHEREx to Interpret Rates and Energies of Cosmic Rays	10:30-11:30
217	Rose Khoobyar	Caroline DeLong	Global and local visual processing in goldfish (<i>Carassius auratus</i>)	3-4
218	Maya Garaway	Caroline DeLong	Investigating Abstract Concept Learning in Goldfish (<i>Carassius auratus</i>)	10:30-11:30
219	Casey Large, Emma Lenchenkova	Elena Fedorovskaya	Multisensory Perception of Alcohol Cues in Young Adult Binge Drinkers	3-4

Physics and Astronomy

Psychology, Neuroscience and Mental Health

Poster Presentations

SHED Atriums

Psychology, Neuroscience and Mental Health

Poster	Researcher	Advisor	Title	Time
220	Lauren Aldrich	Alex Ororbia, Cecilia Alm, Reynold Bailey	Neurobiological Basis of Spiking Neural Network Predictive Coding	10:30-11:30
221	Isaac Bauliah, Pavith Pethiyagoda	Rebecca Houston	Cognitive Reserve Domains and Cognitive Performance in Young Adults	3-4
222	Emma Lenchenkova, Casey Large	Elena Fedorovskaya	Alzheimer's Familial History and Neural Activity in Young Adults	10:30-11:30
223	Jada Farquharson	Lilia Rissman	Individual Differences in Animacy Attribution	3-4
224	Kamyah Johnson	Rebecca Houston	Associations Between Internalizing Symptoms, Impulsivity, and Substance Use	10:30-11:30
225	Antonio Caldaroni	Dustin Haraden	Predicting Actigraphic Sleep Disruption via Mobile Sensing	3-4
226	Nathaniel Kilbridge	Richard Fadok	Measuring Disenfranchised Grief Relating to Bird-Window Collisions	10:30-11:30

Sociology and Anthropology

227	Aniyah Torres	Uli Linke	The Afterlives of Slavery: Governing Black Women's Futures by Blood & Race	3-4
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Software, Application Development

228	Carla Lopez	Carlos Rivero	Analyzing Software Vulnerabilities Using a Neo4j Knowledge Graph Model	10:30-11:30
229	Xander Bhalla	Professor Varsha Dani	Practical Limitations for Computing Maximum Cardinality Matchings	3-4
230	Igor Polotai	Aaron Nieboer	MAGIC Maker Program: Office Party Panic	
	Ramon Miland, Seth Vandivere, Jeff Goehring, David Morse, Joshua Ward	Aaron Nieboer	MAGIC Maker Program - Unholy Roller Game Showcase	
	Edison Pan, Dylan Nicholas, Ashwin Jagadeesh	Rajendra K. Raj	InstructDelta: Working Towards Responsible LLMs	

Media Displays

232	Igor Polotai	Aaron Nieboer	MAGIC Maker Program: Office Party Panic
SHED Screen	Ramon Miland, Seth Vandivere, Jeff Goehring, David Morse, Joshua Ward	Aaron Nieboer	MAGIC Maker Program - Unholy Roller Game Showcase
SHED Screen	Edison Pan, Dylan Nicholas, Ashwin Jagadeesh	Rajendra K. Raj	InstructDelta: Working Towards Responsible LLMs

Thank you!

Thank you for attending the 35th Annual Undergraduate Research Symposium.

We also want to acknowledge this event would not have been possible without the support of:

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