2023

Fall Undergraduate Research Expo
FALL UNDERGRADUATE RESEARCH EXPO

SCHEDULE OF EVENTS

NOVEMBER 14, 2023 | PMU SOUTH BALLROOM
9:00AM-10:00AM  Poster Session 1
10:30AM-11:30AM  Poster Session 2
12:00PM-1:00PM  Poster Session 3
1:30PM-2:30PM  Poster Session 4

NOVEMBER 15, 2023 | STEW 214
9:00AM-5:00PM  Research Talks

NOVEMBER 14-21, 2023 | ONLINE
Virtual presentations
Available at purdue.edu/undergrad-research/conferences/fall

We encourage those with a Purdue account to provide feedback to presenters. To submit feedback, please scan this QR code with your device’s camera!
<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Mentor(s)</th>
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</thead>
<tbody>
<tr>
<td>1000</td>
<td>Julieta Aguilar†</td>
<td>Mentor(s): Jeremy Reynolds</td>
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<tr>
<td>1001</td>
<td>Abdulrazzaq Altarawat†; Elizabeth Lawson†; Alexandra Wildridge†</td>
<td>Mentor(s): Jennifer Brown; Stephen Beegle; Luis Gomez</td>
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<tr>
<td>1002</td>
<td>Sarah Alvarez†; Sajal Salim‡</td>
<td>Mentor(s): Mike Reppert; Jacob Hnatusko Wat</td>
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<tr>
<td>1003</td>
<td>Aditi Anand†; Amrutha Vaidyan†; Adithya Chandrasekar‡; Christin Huene‡</td>
<td>Mentor(s): Somali Chaterji</td>
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<tr>
<td>1004</td>
<td>Ethan Baird†</td>
<td>Mentor(s): Mark Johnson</td>
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<tr>
<td>1005</td>
<td>Samyukta Balaji†; Aditya Sivathanu†; Ava Fasano†; Cassidy Brown†</td>
<td>Mentor(s): Aaron Ault; James Ogg</td>
</tr>
<tr>
<td>1006</td>
<td>Joe Basti†; Grant Capps‡; Eric Wang‡; Mario Arenas‡; Max Kerkho‡</td>
<td>Mentor(s): Shreya Ghosh</td>
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<tr>
<td>1007</td>
<td>Emma Benefiel†</td>
<td>Mentor(s): Reuben Dass</td>
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<td>1008</td>
<td>Anna Brantley†</td>
<td>Mentor(s): Denny Yu; Marian Obuseh</td>
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<tr>
<td>1009</td>
<td>Jaden Brooks†</td>
<td>Mentor(s): Sydney Trask; Kimberly Kinzig; Brent Bachman; Erisa Met Hoxha</td>
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<td>1010</td>
<td>Phuong Bui†</td>
<td>Mentor(s): Paul Parsons; Prakash Shukla</td>
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<td>1011</td>
<td>Living Che†</td>
<td>Mentor(s): Jo Davisson; Amr Mohamed Elkabanny</td>
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<td>1012</td>
<td>Evan Chen†; Andrew Huang†</td>
<td>Mentor(s): Shreya Ghosh</td>
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<td>1013</td>
<td>Ethan Chiao†; Stephanie Close†</td>
<td>Mentor(s): Lucas Cohen</td>
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<td>1014</td>
<td>Ronald Cutler†</td>
<td>Mentor(s): Julia Laskin; Hugo Samayoa-Oviedo</td>
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<td>1015</td>
<td>Sophia Dietz†</td>
<td>Mentor(s): Fai Leung; Beichen Wang</td>
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<td>1016</td>
<td>Alivia Dwire†</td>
<td>Mentor(s): Alex Pasternak; Alyssa Smith</td>
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<td>1017</td>
<td>Vincent Feliciano†</td>
<td>Mentor(s): Linda Wang; Clayton Gentilcore; Cagri Un; Daniel Hristov</td>
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<td>1018</td>
<td>Nicholas Ganino†</td>
<td>Mentor(s): Wenzhuo Wu; Nachiket Vatkar; Don Perera</td>
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<td>1019</td>
<td>Braden Garretson†</td>
<td>Mentor(s): Danny Milisavljevic</td>
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<td>1020</td>
<td>Rygel Ginete†</td>
<td>Mentor(s): Michelle Garrison; Abrianna Anderson; Garrett Price</td>
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<td>1021</td>
<td>Maren Gingrich†</td>
<td>Mentor(s): Gudrun Schmidt</td>
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<td>1022</td>
<td>Nina Gruteser†</td>
<td>Mentor(s): Michael Johnson</td>
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<td>1023</td>
<td>Rohin Gupta†</td>
<td>Mentor(s): Michael Johnson</td>
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<td>1024</td>
<td>Tyler Hsieh†</td>
<td>Mentor(s): Rua Williams; Michelle Garrison</td>
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<tr>
<td>1025</td>
<td>Sierra Hunnicutt†; Luca Iacobucci*; Hannah Reyes Charles*; Abigail Seybert*; Anthony Tan*</td>
<td>Mentor(s): Kristen Bellisario</td>
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<td>1026</td>
<td>Keila Jellings†</td>
<td>Mentor(s): Leonor Chagas Boavida</td>
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<td>1027</td>
<td>Ashwin Kidambi†</td>
<td>Mentor(s): Liang Pan; Justin Weibel; Zekun Wu</td>
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<td>1028</td>
<td>Delaney Knipstein†</td>
<td>Mentor(s): Annabelle Atkin</td>
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<td>1029</td>
<td>Courtney Lacy†; Mary Noonan†</td>
<td>Mentor(s): Nilupa Gunaratna; Savannah O'Malley; Yumary Ruiz; Jason Reed; Ramya Ambikapathi</td>
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<td>1030</td>
<td>Ryan Lee†</td>
<td>Mentor(s): Ryan Altman; Andrew Intelli</td>
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<td>1031</td>
<td>Kathryn Lund†</td>
<td>Mentor(s): Yang Yang; Brody Deming; Jingliang Zhang</td>
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</tbody>
</table>

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Mentor(s): Gudrun Schmidt

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Mentor(s): Pramey Upadhyaya; Abhishek Solanki

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Mentor(s): Michael Johnson

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Mentor(s): John Tesmer; Priyanka Naik

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Mentor(s): Kristine Marceau

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Kenneth Rodriguez-Lopez†
Mentor(s): Shalini Low-Nam; Kevin Scruders; Suriya Selvarajan

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Diya Singh†
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Morgan Gyger†; Brandon Mar†
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Claire Keiri†
Mentor(s): Jennifer Brown; Stephen Beegle; Sofia Rubi; Luis Gomez

Junhyeok Kil†
Mentor(s): Eduardo Barocio

Carolina Kim†
Mentor(s): GuangJun Zhang; Ziyu Dong

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Mentor(s): Garam Kim; Sungjun Choi

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Mentor(s): Kirstin Gotway; Lana Newhart-Kellen

Andree Kolliegebo†
Mentor(s): Nadia Lanman

Dominic LaRouche†
Mentor(s): Elena Benedicto; Kathleen Wagner

Ju Na Lee†
Mentor(s): Wenzhuo Wu; Ruifang Zhang

Simon Lin†; Ryan Sellert†; Matt Elliott†
Mentor(s): Garam Kim; Jacob Montrose; Timothy Ropp

Ethan Lu†; Colby Acton†; Vinay Jagan†; Marvin Lim†; Ruth Sugiarto†; Weicheng Lee†; K Annapoorna Prabhu†; Yi-Ruei Weng†; Suraj Kadajii†; Alex Beuerle*
Mentor(s): Qiang Qiu; Wei Zakharov; Zichen Miao

Avery Mann†
Mentor(s): Sarah Eason

Shamiso Marondera†; Brynne Mills†
Mentor(s): Elena Benedicto; Eunice Opoku

Audrey Middaugh†
Mentor(s): Annabelle Atkin; Nathan Lieng; Rich Lee; Amelia Blankenau

Cole Murphy†; Sean Wall†; Bornik Nag†; Fabiana Correa†
Mentor(s): Robin Carpenter

Brian Ng†; Haichang Li†; Samantha Sudhoff†; Tim Nadolsky*; Joshua Kamphuis*
Mentor(s): Kristen Yeon-Ji Yun; Yung-Hsiang Lu

Haley Oliver†
Mentor(s): Chris Rochet; Bryce Colon; Aswathy Chandran

Aditya Pillai†
Mentor(s): Sidney Ducleroir

Alana Powell†; Oluwapamimo J. Fafowora†; Anayra Maldonado†
Mentor(s): Kathryn LaRoche; Sophie Shank

Adithi Praveenkumar†; Ishaan Bajpai†; Julia Dolpies†; Brian Qi†
Mentor(s): Santiago Arias

Santosh Ramesh†
Mentor(s): Wenzhuo Wu; Robert Ccorahua

Jared Robbins†; Taylor Clark†; Sarah Keller†; Liam Robinson†; Lukas Hecht*
Mentor(s): Kristen Bellisario

Rahul Saproo†; Rohan Aryan†
Mentor(s): Seema Mattoo; Sherlene Brown
1240 Roxanne Schwab†
Mentor(s): Beate Allert

1241 Reva Simmons†; Harry Lee‡
Mentor(s): Garam Kim

1242 Prisha Singhal†; Mahad Faruqi†; Nathon Tubbs*
Mentor(s): Ali Shakouri; Jabir Jahangir

1243 Jack Snelling†; Paraj Goyal†
Mentor(s): Tho Le

1244 Jacob Strietelmeier†; Alex Carroll†; Akshith Karri†
Mentor(s): Andreas Jung

1245 Maia Talbert†; Ana Rojas†
Mentor(s): Pamela Sari; Manabu Takefani; Stewart Chang Alexander

1246 Summer Thomlison†
Mentor(s): Alex Pasternak; Alyssa Smith; Devon Anderson

1247 Benjamin Traylor†; Joel Jarrett†; Joon Kang†
Mentor(s): Jim Tanoos

1248 Caelan Tucker-Camou†; Tayden White†; Anirudh Emani†; Aryan Jumani†
Mentor(s): Andreas Jung; Robin Carpenter

1249 Jacob Valdez†; Sayantan Mukhut†; Swami Karunakaran†
Mentor(s): Karen Marais

1250 Katherine Veth†
Mentor(s): Bill Truitt; Andrew Burke

1251 Vincent Wang†; Jacob Valdez‡; Gabriel Oliviera‡; Josh Mansky‡; Max Lantz‡; Katie Kneeland‡
Mentor(s): Alina Alexeenko; Tony Cofer; Steven Pugia; Jesus Meza-Galvan

1252 Elena Warble†; Anaelle Gackiere†; Mattia Moran†; Elainna Papandrea†; Marissa Santia†; Abigail Rosborough†; Jack Bonnell†; Anesh Podduturu†; Subhi Sathy†; Katharine Czech‡
Mentor(s): Laura Moffat

1253 Bruce Ward†
Mentor(s): Jeff Lucas; Jonathan Jenkins

1254 Tayden White†
Mentor(s): Michael Johnson

1255 Cecilie Wuiff†; Dhruv Sharma†; Castor Yuan†
Mentor(s): James Garrison

1256 Daniel Zou†
Mentor(s): Severin Schneebei; Anthony Mena

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**POSTER SESSION 3 | 12:00PM-1:00PM**

1400 Mukul Agarwalt†; Mayank Hothur†; Kodiak Ortiz†; Isaac Meit†; Branden Cho†; William White†; Daniel Yang†; Sanya Dod‡; Joshua Kamphuis‡
Mentor(s): Yung-Hsiang Lu; Kristen Yeon-Ji Yun

1401 Lillian Andist†
Mentor(s): Alex Pasternak

1402 Nathan Arnold†; Jatin Soni†; Alexander Eigurn†; Alan Chao†; Grant Sims†; Om Muthyala†
Mentor(s): James Goppert; Nicole Adams; Kong

1403 Kara Benbow†; Gabriela Surdyka†
Mentor(s): Joe Kokini; Harrison Helmick

1404 Tori Burke†; Roma Kamatt†
Mentor(s): Julia Chester; Soyol Enkh-Amgalan

1405 Adrian Calderon†
Mentor(s): Gaurav Nanda

1406 Jacob Chappell†
Mentor(s): Mark Johnson

1407 Arunima Chowdhury†; Esharaqa Jihad†; Sami Zagha†; Mert Ryan Kiroglu†
Mentor(s): Renee Murray; Frederick Berry

1408 Nicholas Cline†
Mentor(s): Yan Xin

1409 Peyton Dow†
Mentor(s): Sidney Ducleroir

1410 Avi Dube†; Isaac Fuksman†; Peter Zakariya†; Sully Cisco‡; Rishabh Agarwal†; Justin Gan‡; Derek Matthei‡; Annie Miten‡; Renee Patton‡; Dinesh Ruben‡
Mentor(s): Shreyas Sundaram; Younggil Chang

1411 Delilah Flora†
Mentor(s): Harm HogenEsch; Ahmed Hassan; Raluca Ostafo

1412 Alaina Gartner†; Keila Jellings‡
Mentor(s): Leonor Chagas Boavida

1413 Anjali Gupta†
Mentor(s): Bryan Duarte
Denison Guvenoz†; Avery Kruppe†  
Mentor(s): Sooyeon Jeong; Dong Won Lee

Jaya Hari†; Dheepa Hari†; Alice Dragnea†; Junpei Ota†; Aryan Srivastava†; Natasha Gundapaneni‡; Sarah Sawhney‡  
Mentor(s): Yung-Hsiang Lu; Jiwoo Rachel Kim; Worawis Sribunma

Alden Hartman†  
Mentor(s): Sidney Ducleroir

Timothy Heint†; Miguel Israel Teran†  
Mentor(s): Mark Johnson; Conor Green; Swapnil Bansal

Allison Herr†; Duc Le‡; Vicky Zheng‡; Ethan Lin‡; Devin Reynolds‡; Yen-Hsi Lai‡; Sienna Moon*; Linda Zou*; Kayla Gaerte*  
Mentor(s): Laura Moffat; Katharine Czech; Alec Punnunzio

Cami Howard†  
Mentor(s): Julia Chester; Soyol Enkh-Amgalan

Kyochul Jang†; Jacob Carroll†; Ilhoon Lee†; David Cho†; David Lender†  
Mentor(s): Matthew Swabey

Mateusz Jaszczyk†  
Mentor(s): Akshay Jacob Thomas

Yuvaraj Jhanwar†  
Mentor(s): Michael Johnson

Megan Johnson†; Rafaela Besse†  
Mentor(s): Andrew DeWoody; Natalie Allen

Christine Kaylor†  
Mentor(s): Tugba Karabiyik

Mingyu Kim†; Heesoo Kim†  
Mentor(s): James Davis; Wenxin Jiang

Anna Klupshast†; Emanuel Borror†; Timur Uxukbayev†; Quinten Sanders†  
Mentor(s): Andreas Jung; Lingqiang He; Amelia Binau

William Koppin†  
Mentor(s): Sidney Ducleroir

Parth Kulkarni†  
Mentor(s): Sidney Ducleroir

Aditya Kuniyil Katil†  
Mentor(s): Sidney Ducleroir

Max Lantz†; Jacob Valdez†; Josh Mansky†; Gabriel Oliveira†; Vincent Wang†; Katie Kneeland†  
Mentor(s): Jesus Meza-Galvan; Steven Pugia; Tony Cofer; Alina Alexeenko

Felix Li†  
Mentor(s): Michael Johnson

Jiawe Li†  
Mentor(s): Zhihong Chen; Joerg Appenzeller

Kenneth Liendo†; Darbin Oh†; Benjamin Toifi†; Gangsan Lee†; Ryan Bailey†; Ho Jun Lee†; Jensen Lee†; Jiawei Li†; Armaan Kanchant†; Joshua Kim‡; Lyu-Jia Su‡; Cheng-En Yeh‡; Brett Chen†  
Mentor(s): Zhihong Chen; Joerg Appenzeller; Richard Harlan; Ronald Reger

Sydney Ludwig†; Sophia Vargas*; Jackson Murray*  
Mentor(s): Nathan Cheek

Eric Luscher†  
Mentor(s): Eduardo Barocio; Pasita Pibulchinda; R Byron Pipes

Jenna Ma†  
Mentor(s): Michael Johnson

Camila Andrea Martinez Montes†  
Mentor(s): Eduardo Barocio; R Byron Pipes; Garam Kim

Stephen Mills†  
Mentor(s): Chris Oakley

Areej Mirani†; Zihao Ye‡; Brandon Orbach‡; Sejal Kumar‡  
Mentor(s): Yung-Hsiang Lu

Andrew Modin†; Daniel Wu†; Mariam Ghoneima†; Brogan Holt†; Max Cervantes†; Catherine Mayer†; Dylan Hall†; Zach Tan†; Josh Beigel†; Hey Chuck Lo†  
Mentor(s): John Sheffield

Jason Packard†  
Mentor(s): Ethan Adams

Patrick Pannier†; Sierra Norris†; Jackson Murray*; Sydney Ludwig*; Michelle Zhao*  
Mentor(s): Nathan Cheek

Sucheta Parthasarathy†  
Mentor(s): Sidney Ducleroir

Rohini Pillai†  
Mentor(s): Michael Johnson

Matthew Pung†  
Mentor(s): Lisa Bosman

Paulo Ramirez†; Tejas Kamdi†; Yahor Lechanka†; Benjamin Roeder†; Shreya Sandu†; Matt Wheeler†  
Mentor(s): Alina Alexeenko; Jesus Meza-Galvan; Steven Pugia

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
RESEARCH TALKS

RESEARCH TALK SESSION 1 | 9:00AM-10:00AM

ROOM: STEW 214A
9:00 Odometry for Autonomous Motorsports
7000 Rishi Mantri†
Mentor(s): Shreya Ghosh

9:20 Characterizing Intervertebral Disc Strain under Dynamic Loading Conditions Using Ultrasound
7001 Texture Analysis
Radhika Kulkarni†
Mentor(s): Craig Goergen; Elnaz Ghajar-Rahimi; Grace O’Connell; Shiyin Lim; Reece Huff

9:40 Cooperative learning strategies and their effect on the social-emotional development of students with Autism Spectrum Disorder
7002 Anshi Shastry†; Marley Houin†
Mentor(s): Youli Mantzicopoulos-James

ROOM: STEW 214B
9:00 Low-Power Computer Vision Challenge
7003 Shubham Saluja Kumar Agarwal†; Vidisha Singh‡; Dennis Dai‡; Leo Chen‡
Mentor(s): Yung-Hsiang Lu

9:20 RISC-V Vector Processing for Embedded Microcontroller
7004 Maxwell Michalec†; Om Gupta†; Fahad Aloufi†
Mentor(s): Mark Johnson; Cole Nelson

9:40 Understanding Social Acceptance and Safety Aspects of Sidewalk Delivery Robots
7005 Areli Viveros†; Hoang Hua†
Mentor(s): Tho Le
RESEARCH TALK SESSION 2 | 10:00AM-11:00AM

ROOM: STEW 214A
10:00 RETHi: Fire Resilience in Space Habitats
7006 Krish Thakkar†; Ben Krugman†; Audrey DeKoninck†; Ella Richardson†; Meredith Clark†; Kathleen Martinus†
Mentor(s): Xiaoyu Liu

10:20 Research and Development in IoT and Edge Processing
7007 Maximillian Farrell†; Jack Scarfo†; Arjun Gupte†; Anish Asthi†; Akshath Raghav†; Sergio Montalvo*
Mentor(s): Matthew Swabey; Jaeun Kim

10:40 Pulse Flow Reverse Osmosis System for Applications in Vertical Farming
7008 Emerson Zubb†
Mentor(s): José Garcia

ROOM: STEW 214B
10:00 Effect of Marburg virus VP40 matrix protein mutations on virion assembly and budding
7009 Mahesh Gupta†
Mentor(s): Rob Stahelin; Balindile Motsa; Roopashi Saxena

10:20 Quantum Metrology for New-Era Electronics
7010 Joseph Lopez†
Mentor(s): Pramey Upadhyaya; Abhishek Solanki

10:40 Assessing How Parasite Exposure Frequency and Dosage Influences Infection Risk in PFAS-exposed Grey Tree Frogs
7011 Alyssa Johnson†
Mentor(s): Jason Hoverman

ROOM: STEW 214C
10:00 AI-Based Learning and Stressors: Stumbling up the Learning Curve
7012 Leland Huey†
Mentor(s): Jerod White; Tara Behrend

10:20 A Psychological Investigation of Crisis Center Volunteer Well-being
7013 Sierra Allen†
Mentor(s): Sang Woo

10:40 The effects of chronic PFOS exposure on motor behavior
7014 Hurshal Pol†
Mentor(s): Jason Cannon; Josephine Brown; Fatema Currim; Tauqueerunnisa Syeda

ROOM: STEW 214D
10:00 The Effect of Weaning and Transportation Stress on Subsequent Performance of Average Piglets
7015 Isabel Turner†
Mentor(s): Alex Pasternak

10:20 African American Studies and Research Center Undergraduate Summer Research Internship Program
7016 Nah'Shon Williams†
Mentor(s): Cornelius Bynum; Amy Childress

10:40 Purdue’s AI Usage
7017 Anjana Kidambi†
Mentor(s): Michael Johnson

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
RESEARCH TALK SESSION 3 | 11:00AM-12:00PM

ROOM: STEW 214A
11:40 Examination of Racial Tensions at Midwest Waffle Houses
7018 Mia Rodriguez†
Mentor(s): Youli Mantzicopoulos-James; Spencer Headworth; Brenda Shein; Phoebe Pham; Xiang Zhou

ROOM: STEW 214B
11:00 Revolutionizing Autonomous Driving: Enhancing YOLOv4 with Vision Transformers for Robust Computer Vision
7019 William Stevens†; Mykhailo Tsyss†; Vishal Urs†; Karthik Selvaraj†; Gabriel Torres†
Mentor(s): Edward Delp; Carla Zoltowski
11:20 Investigation of Tactile and Strain Sensing Utilizing Carbon-Fiber Network in Silicone Elastomer Matrix
7020 Harry Lee†
Mentor(s): Garam Kim; Eduardo Barocio
11:40 3D Printed Porous Structure For Mircobump Bonding
7021 Cole Stephens†
Mentor(s): Tiwei Wei

ROOM: STEW 214C
11:00 Effect of Social Demands on Occurrence of Repetitive Behaviors in Children with Autism
7022 Riley Rozniarek†; Anna Hodge‡; Mallory Schrof‡
Mentor(s): Brandon Keehn
11:20 Which Attitudinal Risk Factors for Sexual Violence Predict Sexual Objectification Perpetration Among College Men?
7023 Marie Blankenberger†
Mentor(s): Chris Eckhardt; Daniel Oesterle; Niamh Christie
11:40 Nutritional Nudges in US-based East Asian Restaurants
7024 Clay Watkins†; Ansley Smith*; Shuhan Sun*
Mentor(s): Karen Byrd

ROOM: STEW 214D
11:00 Russian Media Language and Techniques in Turbulent Times
7025 Evan Landau†
Mentor(s): Olga Lyanda-Geller
11:20 Analyzing the Dynamics of Online Political Discourse through Temporal Community Detection
7026 Juniper Rodriguez†
Mentor(s): Jeremy Foote; Mirta Galesic
11:40 Linguistic Changes in the Economic and Business Domains of the Russian and Ukrainian Languages
7027 Davyd Revenko†
Mentor(s): Olga Lyanda-Geller
RESEARCH TALK SESSION 4 | 12:00PM-1:00PM

ROOM: STEW 214A

12:00  Modeling and Simulating Initial Task Allocation in Multi-Human Multi-Robot Teams
6028  Arjun Gupte†
Mentor(s): Byung-Cheol Min; Ruiqi Wang

12:20  Additively Manufactured Dissolvable Packaging for Recycle and Reuse of Chips for Sustainable
6029  Reduction of E-Waste
Sunehra Saleha†; Hannah Houston‡; Carl Hahn‡
Mentor(s): Muhammad Hussain; Dhiya Belkadi; Min Sung Kim

12:40  Quantification of intervertebral disc strain from high-resolution ultrasound imaging during dynamic
6030  loading
Diya Sakhrani†; Radhika Kulkarni*; Grace Rennekamp*
Mentor(s): Craig Goergen; Elnaz Ghajar-Rahimi

ROOM: STEW 214B

12:00  Structural and Functional Characterization of Phospholipase C β3
6031  Kennedy Outlaw†
Mentor(s): Angeline Lyon; Isaac Fisher

12:20  Heterogenous Multicore for Embedded Applications
6032  Malcolm McClymont†; Burkay Sahin†; Devin Singh†
Mentor(s): Mark Johnson; Cole Nelson

12:40  PEAVS: Parallel Encrypted Arithmetic Vector Scheduling
6033  Dulani Wijayarathne†; Sreevickrant Sreekanth†
Mentor(s): Milind Kulkarni; Raghav Malik

ROOM: STEW 214C

12:00  Racial and Ethnic Disparities in Service Referral and Use Among High-Risk Children Diagnosed
6034  with Autism Spectrum Disorder
Aaliyah Saunders†; Victoria Bozinovski‡; Sarah Langdon‡
Mentor(s): Brandon Keehn

12:20  Analysis of heavy metals in wine using portable X-ray fluorescence (XRF)
6035  Anthony Bovenschen†
Mentor(s): Jae Hong Park; Subin Han; Johnathan Klicker-Wiechmann

12:40  You have the right to remain pregnant: Exploring patient experiences pre- and post- Dobbs in
6036  Indiana
Alexandra Finlayson†; Gracia Bujambi*
Mentor(s): Kathryn LaRoche; Scotty Secrist

ROOM: STEW 214D

12:00  How Has Purdue Supported Students’ Physical Health on Campus?
6037  Andrew Nilsson†
Mentor(s): Michael Johnson

12:20  Nurturing Students’ Opportunities to Learn Elementary Mathematics in a Crowded Curricular
6038  Landscape
Bronwyn Rigsby†
Mentor(s): Jill Newton; Doris Fulwider; Bima Sapkota

12:40  Exploring the Integration of Generative AI, ChatGPT, in Higher Education: A Case Study of Purdue
6039  University.
Muhammad Hamza†
Mentor(s): Michael Johnson

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
## RESEARCH TALK SESSION 5 | 1:00PM-2:00PM

### ROOM: STEW 214A

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Mentors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:20</td>
<td>A Feynman-Kac Type Theorem for ODEs: Solutions Of Second Order ODEs as Modes of Diffusions</td>
<td>Hudson Hochstedler†</td>
<td>Harsha Honnappa; Zachary Selk</td>
</tr>
<tr>
<td>1:40</td>
<td>Efficient simulation of degenerate optical parametric oscillator networks for combinatorial optimization</td>
<td>Spencer Bowles†; Michael Foster‡</td>
<td>Peter Bermel; Jie Zhu</td>
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### ROOM: STEW 214B

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<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Mentors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00</td>
<td>Hardware Multithreading on RISC-V Microcontroller</td>
<td>Rohan Gangaraju†; Pranav Srisankar†; Sean Greenley†</td>
<td>Mark Johnson; Cole Nelson</td>
</tr>
<tr>
<td>1:20</td>
<td>Forecasting EV Demand for Demand Response Applications</td>
<td>Byung Wook Kim†; Hyunjun Park†; Spencer Gries†; Kisal Wijesooriya†</td>
<td>Sivaranjani Seetharaman</td>
</tr>
<tr>
<td>1:40</td>
<td>Integrating Young Mothers into an Engineering School</td>
<td>Abigail Frank†</td>
<td>Kirsten Davis; DeBoer; Claussen; Nyambura</td>
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### ROOM: STEW 214C

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Mentors</th>
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<tbody>
<tr>
<td>1:00</td>
<td>Revealing the lipid landscape: Microglial lipid droplets in Alzheimer’s disease.</td>
<td>Shailee Patel†</td>
<td>Gaurav Chopra</td>
</tr>
<tr>
<td>1:20</td>
<td>Organophosphate (OP) exposure, particularly to chlorpyrifos, causes dopaminergic neurotoxicity and is associated with Parkinson's Disease (PD).</td>
<td>Sofia Schumann†; Matthew Corson‡</td>
<td>Jason Cannon; Reeya Tanwar; Currim; Brown</td>
</tr>
<tr>
<td>1:40</td>
<td>Being Asian American in the Midwest: Reflections as a Student Researcher</td>
<td>James Zhou†</td>
<td>Stewart Chang Alexander</td>
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### ROOM: STEW 214D

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<th>Time</th>
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<tbody>
<tr>
<td>1:00</td>
<td>Role of KMT5C in EGFRi Resistance in Non-Small Cell Lung Cancer</td>
<td>Maximillian Hellrung†</td>
<td>Andrea Kasinski; Jihye Son</td>
</tr>
<tr>
<td>1:20</td>
<td>How can acoustic monitoring and AI-CNN technology predict the influence that other mesocarnivores have on bobcat (Lynx rufus) habitat selection in a midwestern river valley?</td>
<td>Luca Iacobucci‡; Abby Seybert*; Anthony Tan*; Hannah Reyes Charles*; Sierra Hunnicutt*</td>
<td>Kristen Bellisario</td>
</tr>
<tr>
<td>1:40</td>
<td>Poetry in the Classroom</td>
<td>Adeline Waltz†</td>
<td>Mary Ellen Lennon</td>
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</table>
# RESEARCH TALK SESSION 6 | 2:00PM-3:00PM

## ROOM: STEW 214A

<table>
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<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
<th>Mentors</th>
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<tbody>
<tr>
<td>2:00</td>
<td>Material Stiffness Sensing using DEAs</td>
<td>Pranav Parigi†</td>
<td>Alex Chortos; Jue Wang</td>
</tr>
<tr>
<td>2:20</td>
<td>Centrality and Adversarial Attacks in Decentralized Federated Learning Networks</td>
<td>Adam Piaseczny†</td>
<td>Chris Brinton; Eric Ruzomberka; Rohit Parasnis</td>
</tr>
<tr>
<td>2:40</td>
<td>The Impact of Directionality and Infill on Detonations of High Explosives</td>
<td>Jack Martin†</td>
<td>Diane Collard; Steven Son</td>
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## ROOM: STEW 214B

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<th>Time</th>
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<th>Mentors</th>
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</thead>
<tbody>
<tr>
<td>2:00</td>
<td>Generation and Detection of Synthetic Cartoon Faces Using Generative Adversarial Networks</td>
<td>Avigdor Roytman†; Ashwin Sreedhar†; Abhiram Nambiar†; Kris Gurung†</td>
<td>Edward Delp; Carla Zoltowski</td>
</tr>
<tr>
<td>2:20</td>
<td>Applying the Critical Incident Technique in Biomedical Engineering in Regards to Faculty Researchers</td>
<td>Tyler Ramsey†</td>
<td>Justin Hess</td>
</tr>
<tr>
<td>2:40</td>
<td>Mining Pre-Trained Models in Open-Source Software</td>
<td>Dulani Wijayarathne†; Anika Bajpai†</td>
<td>James Davis; Jason Jones</td>
</tr>
</tbody>
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## ROOM: STEW 214C

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<th>Mentors</th>
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<tbody>
<tr>
<td>2:00</td>
<td>Miscarriage impacts on Women of Color</td>
<td>Gracia Bujambi†</td>
<td>Kathryn LaRoche</td>
</tr>
<tr>
<td>2:20</td>
<td>The Liking/Learning Gap for Immersive Versus Desktop Virtual Reality</td>
<td>Ben Blachly†</td>
<td>Tara Behrend; Jerod White; Brad Pitcher</td>
</tr>
<tr>
<td>2:40</td>
<td>PP2A-EGFR crosstalk in PDAC: a novel activating role</td>
<td>Ella Rose Chianis†; Sydney Clifford‡</td>
<td>Brittany Allen-Petersen; Claire Pfeffer; Garima Baral</td>
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## ROOM: STEW 214D

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<tbody>
<tr>
<td>2:00</td>
<td>Girls Excelling in Math and Science (GEMS) Clubs: Stories of the Original GEMS Girls</td>
<td>Meredith Chasse†</td>
<td>Jill Newton</td>
</tr>
<tr>
<td>2:40</td>
<td>Social Emotional Learning for English Learning Students</td>
<td>Yilin Huang†</td>
<td>Youli Mantzicopoulos-James</td>
</tr>
</tbody>
</table>

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
RESEARCH TALK SESSION 7 | 3:00PM-4:00PM

ROOM: STEW 214A
3:00 Contribution of Home Demographics and Environmental Factors to Indoor Surface Dust Concentrations in Urban and Suburban Homes in the U.S.
7063 Ishika Jindal†; Sienna Grey†
Mentor(s): Brandon Boor; Satya Patra; Nusrat Jung
3:20 Identifying Vaginal Microbes and Metabolites with Pro- and Anti-Histamine Potential
7064 Reagan Bushok†
Mentor(s): Leopold Green; Douglas Brubaker; Damilola Lawore; Smrutiti Jena
3:40 Terahertz time-domain spectroscopy and Raman spectroscopy for polymer identification
7065 Marco Herbsommer†
Mentor(s): Vikas Tomar; Sushrut Karmarkar; Mahavir Singh

ROOM: STEW 214B
3:00 Aluminum Nitride-based Heterogeneously Integrated Low-Earth-Orbit Sensors (HILEOS-AlN)
7066 Ethan Kovalant†; Frank Huang†; Yiyun Wang†; Ching Chen†
Mentor(s): Zhihong Chen; Peter Bermel; Saeed Mohammadi
3:20 Time interleaving switched capacitor array true time delay unit for baseband beamforming
7067 Long Nguyen†
Mentor(s): Sutton Hathorn
3:40 Extracting Heart Rate from Strain Gauge Respiratory Signals
7068 Pei-Lun (Patricia) Chen†
Mentor(s): Steve Steinhubl; Matthew Ward; Mohamed Elgendi; Carlo Menon

ROOM: STEW 214C
3:00 Developing Realistic Quantum Error Correction Models
7069 Santiago Lopez†; Jonathan Andrade Plascencia*
Mentor(s): Alex Ruichao Ma; Gabriel Perdue; Botao Du
3:20 Investigation of Optimal Machining Parameters for Fiber Reinforced Thermoplastic Composite Materials
7070 Min Yong Chun†; Harry Lee‡
Mentor(s): Garam Kim; Eduardo Barocio
3:40 CATT: Understanding the Online Behavior of Sex Offenders
7071 Reeya Ramasamy†
Mentor(s): Kathryn Seigfried-Spellar; Tatiana Ringenberg

ROOM: STEW 214D
3:00 Exploring Neurite Complexity in Cortical Neurons Carrying an Epilepsy-Linked SCN2A Mutation: A Human-Induced Pluripotent Stem Cell Study
7072 Hope Harlow†; Muhan Wang*
Mentor(s): Yang Yang; Maria Olivero-Acosta
3:20 Developing a Selective Irreversible Peptidic Inhibitor for CBX2
7073 Sam King†; Gabby Conkelo‡
Mentor(s): Emily Dykhuisen; Sijie Wang; Sandra Ordonez
3:40 Animacy Effects and the Production of Relative Clauses in Mandarin: differences between native speakers and heritage speakers
7074 Yongjia Deng†
Mentor(s): Elaine Francis; Vanessa Sheu
RESEARCH TALK SESSION 8 | 4:00PM-5:00PM

ROOM: STEW 214A
4:00  Real-Time Volatile Chemical Screening of Environmental Media to Support Disaster Response
7075  Grayson Wittbrod†
Mentor(s): Brandon Boor; Nusrat Jung; Jinglin Jiang; Xiaosu Ding
4:20  Rheological Behavior of Cellulose Nanofibril Suspensions with Varied Levels of Fines and Solid
7076  Ethan O’Banion†
Mentor(s): Dr. Siamak Shams Es-haghi

ROOM: STEW 214B
4:00  Analysis of Tight Integration Between Vector and Scalar Compute Units
7078  Johnathan Hong†; Sooraj Chetput†; FangLing Zhang†; Zengxiang Han‡
Mentor(s): Tim Rogers; Mark Johnson; Anusuya Nallathambi; Sharath Shivakumar
4:20  Dynamic Local Planner for High-Speed Autonomous Racecars
7079  Alec Pannunziot
Mentor(s): Sam Labi
4:40  LLM-Assisted Software Energy Optimizations for Data Center
7080  Fah Yen†; Max Chang‡; Samay Nandwana‡
Mentor(s): James Davis

ROOM: STEW 214C
4:00  Sound Archive
7081  Gavin Cloyd†; Jackson Stone†; Sahil Desai‡; Jue Fang‡
Mentor(s): Jason Ware
4:20  Automated Crater Morphology Characterization on the Moon Using an Unsupervised Neural
7082  Sara Cuevas-Quiñones†
Mentor(s): Ali Bramson; Lior Rubanenko
4:40  Why do we need to teach quantum to K-12 and early college students?
7083  Priyam Gupta†; Eric Broyles‡
Mentor(s): Bob Kenley; Dongyang Li; Mahdi Hosseini

ROOM: STEW 214D
4:00  Steven Spielberg’s Bridge of Spies as a Russian Fairy Tale
7084  Umbert Caserest†
Mentor(s): Amina Gabrilov
4:20  Relocation Incentives in Alaska; Or, The Call of the Wild and Transfer Payments
7085  Nathan Miller†
Mentor(s): Jillian Carr

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
VIRTUAL PRESENTATIONS

Presentations available on Fall Expo website November 14-21, 2023.
Presentations sorted by last name of first author.

9000 Kyle Bautista†; Derek Chit†
Mentor(s): Mark Johnson; Ryan Montsma

9001 Jaehong Choi†; Rohan Joshi†; Wen-Bo Hung†; Yunlin Zhang†
Mentor(s): Mark Johnson; Ryan Montsma; Cole Nelson; Maxwell Michalec; Jude Pinto

9002 Ta-Kuan Chuang†
Mentor(s): Brandon Boor; Nusrat Jung; Chunxu Huang

9003 Lekha Durai†
Mentor(s): Kirsten Davis; Jennifer DeBoer

9004 Samuel Forfang†; Vincent Graciano‡; Pratheek Kotla‡
Mentor(s): Mark Janis

9005 Andrew Fulkerson†
Mentor(s): Carlos Corvalan; Jiakai Lu

9006 Emma Jeffries†; Future Jani‡
Mentor(s): Gudrun Schmidt

9007 Wesley Kestenbaum†
Mentor(s): Michael Johnson

9008 Rushil Khandelwal†; Prahlad Shelvapille†; Jackson Thompson†; Doren Cohen‡; Adrian Romo-Loomis‡; Alexander Collins‡
Mentor(s): Shreyaa Ghosh

9009 Kyung Min Ko†; Gunvanth Reddy Kandula†; Yash Rajendra Ashhtekar†; Kanav Atre‡
Mentor(s): Edward Delp

9010 Pratheek Kotla†
Mentor(s): Sergiy Chernenko

9011 Garrett Lait†; Jonathan Huang‡; Sudhanva Donakonda‡
Mentor(s): Cole Nelson

9012 Yunhao Lan†; Ben Owen‡
Mentor(s): Mark Johnson; Ryan Montsma

9013 Tam Lef‡; Tsai-Shuang Lan†; Andrew Slabach‡; Kerway Tsai†
Mentor(s): Mark Johnson; Boyuan Chen

9014 Michael Lee†; Rauf Emre Erkiletlioglu‡
Mentor(s): Mark Johnson

9015 Pu-Wei Lee†; Woosik Kim†
Mentor(s): Ryan Montsma; Cole Nelson

9016 Yuechan Li†
Mentor(s): Abolfazl Hashemi; Shivam Bhat; Zijian He

9017 Clark Liao†
Mentor(s): Mark Johnson; Jude Pinto

9018 Yung-Chieh Lin†; Qiuyang Huang†
Mentor(s): Sam Labi; Shreyaa Ghosh

9019 Ya-Han Lin†
Mentor(s): Mark Johnson; Jude Pinto

9020 Chia-Hua Lin†
Mentor(s): Sudip Vhaduri; Jinjin Cai

9021 Mateo Llerena†; Shalav Kakati‡; Mridula Naikawadi‡; Aditya Hebbani‡; Luke DeLorenzo‡; Dean Smith‡; Devesh Mehra‡
Mentor(s): Shreyaa Sundaram; Charles D’Onofrio

9022 Jeremy Lu†
Mentor(s): Michael Johnson

9023 Jingxi Ma‡
Mentor(s): Michael Johnson

9024 John Mburu†; Joseph Lopez‡
Mentor(s): Pramey Upadhyaya; Abhishek Solanki

9025 Noah Merz†
Mentor(s): Sidney Ducleroir

9026 Asmi Mukherjee†
Mentor(s): Douglas Brubaker

9027 Saibya Padha†
Mentor(s): Michael Johnson

9028 Adrian Persaud‡; Hana Wong†
Mentor(s): Mark Johnson; Swapnil Bansal; Conor Green

9029 Linh Pham†
Mentor(s): Paul Parsons; Zixu Zhang

9030 Annabelle Redman†
Mentor(s): Kari Clase; Daphne Krutulis

9031 Chelsea Reppert‡
Mentor(s): Inna Abramova; Lyubov Sylayeva

9032 Patrick Robison†
Mentor(s): Michael Johnson

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
9033  Mark Rome†
Mentor(s): Sidney Ducleroir

9034  Ayush Singhal†
Mentor(s): Michael Johnson

9035  Aditya Sood†; Vishnu Lagudu‡
Mentor(s): Mark Johnson; Jude Pinto

9036  Sreevickrant Sreekanth†; Cy Logan‡; Vanamali Vemparala‡; Pratham Agrawal‡
Mentor(s): James Davis

9037  Harshith Suresh†
Mentor(s): Charles D’Onofrio

9038  Keerthana Thirumal†
Mentor(s): Sidney Ducleroir

9039  Tin Tran†; Duc Tri Than†; Duncan Nguyen†
Mentor(s): Mark Johnson; Ryan Montsma; Cole Nelson

9040  Boheng Zhao†
Mentor(s): Conor Green; Mark Johnson

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
Celebrating Purdue’s Thinkers, Creators, & Experimenters

Contact OUR
purdue.edu/undergrad-research
ugresearch@purdue.edu

Save the Dates

- Spring Undergraduate Research Conference
  April 9 & 11, 2024
- Celebrate Purdue’s Thinkers, Creators, and Experimenters
  April 18, 2024
- Summer Undergraduate Research Symposium
  July 25, 2024