SCHEDULE OF EVENTS

APRIL 9, 2024 | PMU BALLROOMS

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

APRIL 11, 2024 | STEW 214 & 218

9:00AM-5:00PM  Research Talks
10:00AM-4:00PM  Literature, Linguistics, Languages, & Culture Colloquium

APRIL 9 - 16, 2024 | ONLINE
Virtual presentations
View them at purdue.edu/undergrad-research/conferences/spring

We encourage those with a Purdue account to provide feedback to presenters.
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Posters are delivered in the Purdue Memorial Union North and South Ballrooms on April 9, 2024.

Posters sorted by last name of first author within each session.

**FIRST POSTER SESSION | 9:00AM-10:00AM**

<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Presenting Undergraduate Author</th>
<th>Contributing Undergraduate Author</th>
<th>Undergraduate Acknowledgement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>Teagan Ames-Majeski†</td>
<td>Mentor(s): Matthew Scarpelli; Joseph Speth; R. Timothy Bentley</td>
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<tr>
<td>1001ΩΔ</td>
<td>Anahita Amipour†; Grace Turner*; Amanda Veile*</td>
<td>Mentor(s): Amanda Veile</td>
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<tr>
<td>1002</td>
<td>Nathan Arnold†; Alexander Eiguren†; Anna Radulski†; Grant Sims†; Alan Chao†</td>
<td>Mentor(s): James Goppert; Nicole Adams; Nan Kong; Worawis Sribunna</td>
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<td>1003</td>
<td>Janathan Balakrishnan†</td>
<td>Mentor(s): James Gibert; Hongcheng Tao</td>
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<td>1004</td>
<td>Hannah Bard†; Perry Curtis*; Tamia Austin*</td>
<td>Mentor(s): Ellen Wells</td>
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<tr>
<td>1005</td>
<td>Ella Barnes†; Emily Klaiber†</td>
<td>Mentor(s): Soojung Jo; Min Sook Park; Yeseol Cho</td>
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<tr>
<td>1006</td>
<td>Olivia Battaglia†; Jacqueline O'Malley†</td>
<td>Mentor(s): Arielle Borovsky; Philip Curtis</td>
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<td>1007</td>
<td>Kara Benbow†; Gabriela Surdyka†</td>
<td>Mentor(s): Joe Kokini; Harrison Helmick</td>
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<td>1008</td>
<td>Michael Bezick†; Vea Iyer†</td>
<td>Mentor(s): Alexandra Boltasseva; Blake Wilson</td>
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<tr>
<td>1009</td>
<td>Anika Bhoopalam†</td>
<td>Mentor(s): Letian Dou; Arun Mannodi Kanakkithodi</td>
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<tr>
<td>1010Ω</td>
<td>Sarah Bhuiya†</td>
<td>Mentor(s): Melissa Franks; Alexander Francis</td>
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<tr>
<td>1011</td>
<td>Livia Bogdan†</td>
<td>Mentor(s): Angeline Lyon; Kadidia Samassekou</td>
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<tr>
<td>1012ΨΔ</td>
<td>Lucy Bolles†; Emma Johnson†</td>
<td>Mentor(s): Logan Strother</td>
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<td>1013</td>
<td>Emily L Bond†</td>
<td>Mentor(s): Yumary Ruiz; Madeline Moser</td>
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<td>1014</td>
<td>Lindsay Brncick†; Boxi Gong‡; Julia Flowers‡</td>
<td>Mentor(s): Quihong He; MacKenzie McIntosh; Boxi Gong</td>
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<td>1015</td>
<td>Jaden Brooks†</td>
<td>Mentor(s): Kim Kinzig; Sydney Trask; Brent Bachman; Erisa Met Hoxha</td>
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<td>1016</td>
<td>Tori Burke†; Roma Kama†; Parker Davis†</td>
<td>Mentor(s): Julia Chester; Soyol Enkh-Amgalan</td>
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<td>1017Ω</td>
<td>Lorenzo Cacciaputo†</td>
<td>Mentor(s): Mark Johnson; John Peterson</td>
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<td>1018</td>
<td>Alexis Carroll†; Aidan Dibble†; Ann Marie Uhlmansiek†; Amanda Wolf†</td>
<td>Mentor(s): Adam Quinn; Daphne Fauber; AJ Gin; Harry Ashbaugh; Kari Clase</td>
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<td>1019</td>
<td>Jonah Chang†</td>
<td>Mentor(s): Pat Kerstein; Labony Khandokar</td>
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<td>1020</td>
<td>Yuan-Jung Chen†; Andre Ponsot‡; Angus Moore†</td>
<td>Mentor(s): Kendra Erk; Ala Eddin Douba; Akul Seshadri</td>
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<td>1021</td>
<td>Briana Chen†; Ashley Ortiz†</td>
<td>Mentor(s): Danny Milisavljevic</td>
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<td>1022</td>
<td>Yashvi Choudhary†; Sirish Kayam†; AnhThu Pham†</td>
<td>Mentor(s): Jeffrey Dick; Vanshika Gupta</td>
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<td>1023</td>
<td>Vladimir Condino†; Jaiveer Dutta†; Andrew Nilsson†; James Strayhorn†; Andrew Coleman†</td>
<td>Mentor(s): Andreas Jung; Santosh Bhandari</td>
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<td>1024</td>
<td>Catherine Conway†</td>
<td>Mentor(s): Michael Johnson</td>
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<td>1025Ω</td>
<td>Ashton Cotton†</td>
<td>Mentor(s): Taimoor Qazi; Scotty Secrist</td>
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<td>1026</td>
<td>Soumalya Das†</td>
<td>Mentor(s): Debayan Das</td>
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<td>1027</td>
<td>Vamsi Deeduvanavu†; Tanvi Dhawade†; Alexander Aylward†; Nihar Atri†; Ron Natarajan†; Akshath RagHAV Ravikiran†; Adrien Q†</td>
<td>Mentor(s): Yung-Hsiang Lu</td>
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<td>1028Ψ</td>
<td>Luke DeLion†; Alyson Owen†; Nicholas Zolnierczuk†; Junezuh Chang‡</td>
<td>Mentor(s): AJ Gin; Harry Ashbaugh; Adam Quinn; Daphne Fauber; Kari Clase</td>
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</table>

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement  
Ω Interdisciplinary Project; Ψ Archival Project; Δ Digital Humanities Project
| 1029 | Aniket Dev Roy† | Mentor(s): Jonathan Delph |
| 1030Ω | Tanvi Dhawade† | Mentor(s): Qingchun Li; Noori Kim; Tianle Duan |
| 1031Ω | Brian Dodd†; Fraser Dougall‡ | Mentor(s): Peter Bermel; Stylianos Chatzidakis; Allen Garner |
| 1032 | Sohil Doshi† | Mentor(s): Deepak Suthar |
| 1033 | Nikita Dubrovsky†; Abhishek Kini*; Aayush Iyengar* | Mentor(s): Ran Dai |
| 1034 | Gavin Duffy†; Ruth Weit | Mentor(s): Caitlin Proctor; Aliya Ehde |
| 1035 | Molly Dye†; Nicole Nagel† | Mentor(s): Bradley Duerstock; Thomas Everett; Mitchell Sanchez |
| 1036 | Mary Earp† | Mentor(s): Shubhra Bansal; Haohan Guo |
| 1037Ω | Youssef Errihani† | Mentor(s): Steve Lindemann; Miguel Gonzales |
| 1038 | Elizabeth Christine Farrell† | Mentor(s): Qing Deng; Tyler Pikes; Scotty Secrist |
| 1039Ω | Abigail Foley† | Mentor(s): Melissa Franks; Alexander Francis |
| 1040 | John Frandina†; Gabrielle Pedigo† | Mentor(s): Aaron Specht; Chandler Burgos |
| 1041 | Roy Galazka†; Raymond Glowner†; Devyani Tyagi†; Tiancheng Zhang† | Mentor(s): Danny Milisavljevic; Ziwei Ding |
| 1042 | Rohan Gangaraju†; Pranav Srisankar†; Sean Greenley† | Mentor(s): Mark Johnson; Cole Nelson |
| 1043 | Brianna Gast†; Lauren Jones‡; Addison Hill‡; Michayla Dinn‡; Ellie Ketcham‡ | Mentor(s): Theresa Casey; Linda Beckett |
| 1044 | Madelyn Gearld†; Julia Flowers† | Mentor(s): Kathryn LaRoche |
| 1045 | Brandon Goepner† | Mentor(s): Shreya Ghosh |
| 1046Ω | Samuel Gomez† | Mentor(s): Sudip Vhaduri |
| 1047Ω | Son Ha†; Jonah Nichols†; Vinay Gupta†; Aadiyta Doiphode† | Mentor(s): David Purpura; Avery Closser |
| 1048 | Jaya Hari†; Alice Dragnea†; Dheepa Hari†; Yash Ashtekar†; Aryan Srivastava†; Nikhil Saxena†; Shuangdong He†; Nikitha Suraj†; Geerwan Bhatcharjee† | Mentor(s): Yung-Hsiang Lu; Kylie Sommer-Kohrt |
| 1049 | Ashley Hartman†; Madeline Douglas† | Mentor(s): Laura Claxton; Paige Thompson |
| 1050 | Kyle Harvey†; Nicholas Bogat† | Mentor(s): Gustavo Rodriguez-Rivera |
| 1051 | Khaleel Ibrahim Hassan† | Mentor(s): Muhammad Hussain; Andres Castillo |
| 1052 | Amirah Hawai†; Isabela Ramirez Ortiz* | Mentor(s): Amanda Deering; Hansel Mina; Adriana Vanegas Torres |
| 1053 | Zachery Heppner†; Drake Strait†; Hudson Schneider†; Michael Perrin†; Derek Temple†; Katherine DeMarco† | Mentor(s): Adam Quinn; Harry Ashbaugh; Aj Gin; Daphne Fauber; Kari Clase |
| 1054Ω | Brogan Holt‡; Daniel Wu*; Tristan Darby*; Dylan Hall*; Zach Tan*; Carl Chandra*; Ayan Hossain*; Apoorva Bahl*; Kexin Han*; Grant Goldsmith* | Mentor(s): John Sheffield |
| 1055 | Jon Hurley† | Mentor(s): Soojung Jo; Tatiana Ringenberg |
| 1056 | Luca Iacobucci†; Sierra Hunnicutt‡; Hannah Reyes Charles‡; Katie Hong‡; Zhixin Cai‡; Ryan Feller‡; Anthony Tan‡ | Mentor(s): Kristen Bellisario |
| 1057 | Lourdes Ignacio†; Selina Lin†; Shreeya Etireddy† | Mentor(s): Brett Meyers; Pavlos Vlachos |
| 1058 | Rachel Issac†; Maria Armenta† | Mentor(s): Bridgette Kelleher; Wei Siong Neo |
| 1059 | Clayton Jarosinski†; Claire Middendorf† | Mentor(s): Marika Santagata; Luis-Enrique Garzon-Sabogal |
| 1060 | Lauren Jones†; Addison Hill‡; Brianna Gast‡; Ellie Ketcham‡ | Mentor(s): Theresa Casey; Linda Beckett |
| 1061 | Christina Joslin† | Mentor(s): Nadia Gkritza; Bruno Cesar Krause |
| 1062 | Elisabeth Justice† | Mentor(s): Aaron Thompson; Yiwei Huang; Erin Percevault |
Connie Kang†; Rongbo Hu†; Nicholas Martel†; Qinjia Xu‡; Jessica Lyng‡; Jiaming Fang‡
Mentor(s): Abolfazl Hashemi; Shivam Bhat; Zijian He

Temirlan Karataev†; Tim Nadolsky†; Calvin Tseng†; Caasi Boaky‡; Shrish Senthilkumar‡; Ping-Hung Ko‡; Rixin Chen‡; Minsoo Oh†
Mentor(s): Yung-Hsiang Lu; Kristen Yeon-Ji Yun

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Mentor(s): Lara Balian; Jacqueline Linnes; Natalia Rodriguez

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Mentor(s): Lisa Welp

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Mentor(s): Denny Yu; Guoyang Zhou

Debora Kim†; Elliott Shi†
Mentor(s): Michelle Garrison; Garrett Price

Caleb Klopfenstein†
Mentor(s): Pat Kerstein; AJ Alqahtani

Anna Klupshas†; Jacob Strietelmeier†
Mentor(s): Andreas Jung; Lingqiang He

Rachel Kuhn†; Kayleigh Jennings‡
Mentor(s): Kranthi Varala; Rajeev Ranjan

Andy Lam‡; Yu-Wei Chang‡; Yiyuan Zhang†
Mentor(s): Edward Delp

Megan Lawson†
Mentor(s): Cat Searle; Paradyse Blackwood

Sangjin Lee†; Andrew Liu‡; Benjamin Miller‡; Ansh Gangapurkar‡; Hyun (Eric) Kang‡; Rahul Menon†
Mentor(s): Tillmann Kubis; Logan Melican; Daniel Lemus

Harry Lee†
Mentor(s): Eduardo Barocio

Sarah LeFever†
Mentor(s): John Mulrow

Sydney Leohr†
Mentor(s): Seema Mattoo; Ben Watson

Isabella Levine†
Mentor(s): Peter Bermel; Sayan Roy; Stylianos Chatzidakis; Allen Garner

Brianna Lewis†; Alexis Hawkins‡; Claire Maurer†
Mentor(s): Pavlos Vlachos; Brett Meyers; Rozhin Derakhshandeh

Selina Lin‡; Chris Farber*; Neel Sarathy*
Mentor(s): Soojung Jo; Min Sook Park

Erica Long†
Mentor(s): Tim Johnson; Isabela Garcia Mendes de Araujo Santos; Madison Simonds; Ruth Centeno Martinez; Jacquelyn Boerman

Noah Lyon†
Mentor(s): Cathie Aime; Samira Fatemi

Yashwanth Reddy Mahesh Kumar†
Mentor(s): Deniz Besiktepe

Carson Mann†
Mentor(s): Matthew Scarpelli; Mackenzie Coon

Gabe Martinez‡; Abhilash Saravana‡; Christopher Lee‡; Nandini Pand‡
Mentor(s): Edward Delp

Annie McCarthy†
Mentor(s): Michael Johnson

Aidan McDonough†
Mentor(s): Denny Yu; Ryan Villarreal

Karrick McGinty†; Mason Giachet‡; Travis Hastreiter*
Mentor(s): Andreas Jung; Andrew Wildridge; Yao Yao; Ethan Colbert

Stan Melkumian‡; Elizaveta Filippova‡; Prakhar Saxena‡; Adam Weber‡; Ethan Shatz‡; Dean Stornello‡
Mentor(s): Adam Quinn; Daphne Fauber; Harry Ashbaugh; AJ Gin; Kari Clase

Breeann Mild†
Mentor(s): Jennifer Freeman

Mickayla Miller†
Mentor(s): Ximena Bernal; Katherine González

Giovanni Minghetti‡; Seth Jimenez‡; Adelaide Bullard†; Lillian Woolley†
Mentor(s): AJ Gin; Harry Ashbaugh; Daphne Fauber; Adam Quinn; Kari Clase

Hannah Murawski†
Mentor(s): Kristine Marceau; Li Yu

Kathryn Myers†
Mentor(s): Ximena Bernal; Katherine González

Andrew Nelson†; Noor Owainy†
Mentor(s): Betsy Parkinson; Noah Moriarty

Aarohi Panzade†; Akhil Kasturi†; Rahul Ghosh†
Mentor(s): David Purpura; Avery Closser

Karina Paone†
Mentor(s): Chad Carroll; Eric Gutierrez

Mitul Patel†
Mentor(s): Riyi Shi; Martina Dalolio

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
Ω Interdisciplinary Project; Ψ Archival Project; Δ Digital Humanities Project
SECOND POSTER SESSION | 10:30AM-11:30AM

1200 Shams Adigozalzade†
Mentor(s): Betty Feng

1201 Divij Agarwal†; Vasileios Kalaitzidis†; Liam Gallagher†
Mentor(s): Andreas Jung; Husheng Guan

1202 Maggie Anderson†
Mentor(s): Tesfaye Mengiste; Madylin Schaider; Chao-Jan Liao

1203 Lillian Andis†
Mentor(s): Alex Pasternak; Alyssa Smith

1204 Megan Ashby†
Mentor(s): Alex Pasternak

1205 Kyala Augustin†
Mentor(s): Michael Johnson

1206 Tamia Austin†
Mentor(s): Ellen Wells

1207 Aaron Banks†
Mentor(s): Jan-Anders Mansson; Patrick Cavanaugh; Teal Dowd

1208 Shawn Belongia†
Mentor(s): Vilas Pol; Annie Sun

1209 Saraf Bhuiya†
Mentor(s): Jennifer Freeman

1210 Rachit Bisht†; Ayian Alam†
Mentor(s): Marco Hadisurya

1211 Alexandra Britto†; Kayla Osen†
Mentor(s): Keith Cherkauser; Zhi Zhou

1212 Meghan Brown†
Mentor(s): Lisa Welp; Alexandra Meyer

1213 Sydney Brown†
Mentor(s): Alexandria Johnson; Gouri Prabhakar

1214 Alexa Burke†
Mentor(s): Daniel Suter; Laura Pulido Cifuentes

1215 Joseph Carrig†; Jingyu Xiao†; Massimo Lapina†
Mentor(s): James Garrison; Archana Choudhari

1216 Jacob Carroll†; David Lender†; William Jiang†; Dogyu Ryu†; Mihika Sharma†; Anthony Petrescu†
Mentor(s): Matthew Swabey

1217 Kaubfar Changkanjana†
Mentor(s): Matthew Scarpelli; Philip Durham; Mackenzie Coon

1218Ω Leo Chen†; Adarsh Veerapaneni*; Amy Tong*; Saandiya KPS Mohan*; Jadden Picardal*; Zilu (Johnny) Jin*; Ata Ulas Guler*; Alicia Zhou*; Jin Hyun Kim*
Mentor(s): Dave Barbarash

1219 Jingyu Chen†
Mentor(s): Garam Kim; Waterloo Tsutsui

1220 Veronica Cheng†
Mentor(s): Shubhra Bansal; Faharia Hasan Bhuiyan

1221 Ella Rose Chianist†
Mentor(s): Brittany Allen-Petersen; Samantha Tinsley

1222 Yu Chung†; Sophie Mbongo‡
Mentor(s): Amanda Veile

1223 Meredith Clark†; Benjamin Krugman†
Mentor(s): Xiaoyu Liu

1224 Quinn Clemenz†; Lauren Voss*; Olivia Richter*; Samantha Maari*
Mentor(s): Elliot Friedman

1225 Alexander Collinš†; Adrian Romo-Loomis*; Doren Cohen*; Jackson Thompson*; Prahlaid Shelvapille*
Mentor(s): Shreya Ghosh

1226 Gabby Conjelko†; Sam King‡
Mentor(s): Emily Dykhuizen

1227 Aaron Coppeta†
Mentor(s): Deva Chan; Alex Nguyen

1228 Matthew Corson†; Sofia Schumann‡
Mentor(s): Jason Cannon; Fatema Currim; Josephine Brown-Leung; Reeya Tanwar

1229 Wyatt Crain†
Mentor(s): Adam Wasserman; Yuming Shi; Alvin Uppgård

1230 Lauryn Crumbley†; Ryan Mason*; Kinaya Hines*
Mentor(s): Michael Johnson

1231 Perry Curtis†; Hannah Bard*; Tamia Austin*
Mentor(s): Ellen Wells; Edem Sededji

1232Ψ Arianna Dejoie†
Mentor(s): Yvonne Pitts; Scotty Secrist

1233 Aryaman Dewan†
Mentor(s): Raluca Ostafe

1234Ψ Sophia DeWitt†
Mentor(s): Michele Buzon; Sarah A Schrader

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
Ω Interdisciplinary Project; Ψ Archival Project; Δ Digital Humanities Project

Page 6
Fraser Dougall†; Brian Dodd‡
Mentor(s): Peter Bermel; Stylianos Chatzidakis; Allen Garner

Avi Dubet; Peter Zakariya†; Sully Cisco*; Justin Gan*; Sahithi Gokavaranpu*; Josh Krohn*; Derek Matthei*; Anne Mitten*; Pranati Patchigolla*
Mentor(s): Shreyas Sundaram; Younggil Chang

Elena Eberwine†
Mentor(s): Dan Foti; Kimberly Galvez-Ortega; Kaylin Hill

Jiaming Fang†; Qinjia Xu‡; Zay Linn Htet*; Drew Philhower*; Rongbo Hu*
Mentor(s): Abolfazl Hashemi; Zijian He

Chris Farber†; Neel Sarathy‡; Selina Lin‡
Mentor(s): Soojung Jo; Min Sook Park

Maximillian Farrell†; Jack Scarfo†; Anish Asthi†; Minh Vu†; Vinh Tran†; Mateo Hackett†; Michael Piper†; Anthony Wachowski†; Avinash Ignaczak†
Mentor(s): Matthew Swabey; Jaeun Kim

Mia Fleisher-de Kozan†
Mentor(s): Aaron Bowman; Anke Tukker; Jennifer Schmitz

Mason Fleming†
Mentor(s): Peter Bermel; Hannah Pike

Madison Flowers†
Mentor(s): Mark Lipton; Kaif Rashid Khan

Madyson Foster†
Mentor(s): Wayne Campbell

Ethan Fox†
Mentor(s): Daniel Raudabaugh; Cathie Aime

David Fries†
Mentor(s): Hana Hall; Kendall Cottingham

Anaelle Gackiere†
Mentor(s): Shelley MacDermid Wadsworth

Darshak Gadagkar†
Mentor(s): Riley Barta

Kylene Gall†
Mentor(s): Lisa Hilliard

Mridulla Ganesh†
Mentor(s): Lisa Bosman

Ansh Gangapurkar†; Sangjin Lee*; Andrew Liu*; Rahul Menon*; Hyun (Eric) Kang*
Mentor(s): Tillmann Kubis; Logan Melican

Andrew Gangstad†; Shaiv Mehra†; Tommy Mullin†; Joshua Sexton†
Mentor(s): Sherry Harbin; Stacey Halum; Theodore Puls

Junezuh Ghang†
Mentor(s): Teresa Carvajal

Grace Gilbert†; Trina Tagamolila‡; Sarah Ramsey‡
Mentor(s): Sarah Karalunas; Sarah Pieper

Jennifer Gillette†; Jaron Hunt‡; Danny Thornewelt†
Mentor(s): Shreya Ghosh; Samuel Labi

Emma Gordon†
Mentor(s): Kathryn LaRoche

Paige Greenfield†
Mentor(s): Tillmann Kubis; William LeFever

Kayla Grennes†
Mentor(s): Ying Li; Ryan Patrick

Vinay Gupta†; Shrienidhi Gopalakrishnan†
Mentor(s): Alejandro Strachan; Brian Lee

Riddhi Gupta†
Mentor(s): Lisa Bosman

Jarren Haggard†; Katie Peterson*
Mentor(s): Sarah Renkert

Anna Hardy†
Mentor(s): Brandon Kistler

Audrey Harrison†
Mentor(s): Edward Bartlett; Meredith Ziliak

Abigail Heppelmann†
Mentor(s): Steve Steinhubl

Marco Herbsommer†
Mentor(s): Vikas Tomar; Sushrut Karmarkar; Meghana Sudarshan; Mahavir Singh

Addison Hill†; Lauren Jones‡; Brianna Gast‡; Ellie Ketcham‡
Mentor(s): Theresa Casey; Linda Beckett

Seoyeon Hong†
Mentor(s): Maria Olivero-Acosta

Hoang Hu†; Areli Viveros-Hernandez†
Mentor(s): Tho Le

Sierra Hunnicutt†; Zhixin Cai†; Ryan Feller‡; Katie Hong†; Luca Iacobucci‡; Hannah Reyes Charles‡; Anthony Tan‡
Mentor(s): Kristen Bellisario
Dabin Jung†
Mentor(s): Chitta; Rishi Patel; Zach Budimir; Yu Nishio; Betsy Parkinson

Alex Karns†
Mentor(s): Steven Son; James Cooper; Tim Manship

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

Andree Kolliengbo†
Mentor(s): Nadia Lanman

Molly Koshi†
Mentor(s): Sharon Kessler; Sienna Ogawa

Ashlyn Kwan†
Mentor(s): Matthew Scarpelli; Scotty Secrist

Mia Martinez†; Paige Davis‡
Mentor(s): Gaurav Chopra; Guang Yang; Pooja Saklani; Harshit Arora; Caitlin Randolph

Samantha Maari†; Lauren Voss*; Quinn Clemenz*; Olivia Richter*
Mentor(s): Elliot Friedman

Rohan Malavathu†
Mentor(s): Alexandra Boltasseva; Blake Wilson

Lillian Maldia†
Mentor(s): Caitlin Proctor

Mia Martinez†; Paige Davis‡
Mentor(s): Gaurav Chopra; Guang Yang; Pooja Saklani; Harshit Arora; Caitlin Randolph

Michael Maslowski†
Mentor(s): Nandhini Giri

Kathryn McGregor†; Ellen Densmore*; Madison Miller*; Katelyn Decker*
Mentor(s): Amanda Yuile; Arielle Borovsky

Vihaan Merchant†
Mentor(s): Michael Johnson

Valentina Micolisin†; Emily Bell‡; Andy Navarro†
Mentor(s): Edward Bartlett; Meredith Ziliak

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

Joanna Miller†
Mentor(s): Christopher Oakley; Samuel Mantel

Lillian Millsbaugh†
Mentor(s): Sarah Karalunas; Madelyn Blake Heise

Nicholas Mitchell†
Mentor(s): Ellen Wells

Alexander Nishio†; Dhanush Tipparaju†; Jayson Stansbury*
Mentor(s): Abolfazl Hashemi; Zijian He; Shivam Bhat

Darbin Oh†; Benjamino Tofili†; Gangsan Lee*; Cheong Eun Kim*; Lyu Jia Sue*; Rakhmatilokhon Abdulovaev*; Jozue Kim*
Mentor(s): Zhihong Chen; Joerg Appenzeller

Kennedy Outlaw†
Mentor(s): Angeline Lyon; Isaac Fisher

Raahil Pattan†
Mentor(s): Akanshu Sharma; Gaurav Chobe

Adam Piaseczny†
Mentor(s): Christopher Brinton; Eric Ruzomerka; Rohit Parasnis

Holly Picket†
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Mentor(s): Anne Sereno; Daniel Larranaga

Olivia Richter†; Lauren Voss*; Quinn Clemenz*; Samantha Maari*
Mentor(s): Elliot Friedman

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1468 Kathryn Lund†
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1469 Kailin Ma†; Anh Duong†
Mentor(s): Brandon Keehn; Yesol Kim

1470 Brandon Mart†; Morgan Gyger†
Mentor(s): Kari Clase

1471 Nicholas Martel†; Tom O'Donnell†; Thomas Greer†; Yash Mehta‡
Mentor(s): Carla Zoltowski; Zijian He; Shivam Bhat

1472 Malcolm McLymont†; Burkay Sahin†; Devin Singh†
Mentor(s): Mark Johnson; Cole Nelson

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Mentor(s): Christopher Oakley

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1500 Tanishaa Shah†; Cheng-Hao (Ryan) Chen*; Samantha Sudhoff*; Cole Scheidler*; Yu-Hsu (Josh) Chang*; Sai Meda*
Mentor(s): Yung-Hsiang Lu; Kristen Yeon-Ji Yun

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<td>Faith Scott†</td>
<td>Mentor(s): Uma Aryal; Rodrigo Mohallem; Allison Schaser</td>
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<td>1708</td>
<td>Sharma Kashish†; Vanessa Grace Uy*</td>
<td>Mentor(s): Akanshu Sharma; Dheeraj Waghamare</td>
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<td>1709</td>
<td>Anvit Sinha†; Shruti Goyal†; Zachary Will Sy†</td>
<td>Mentor(s): Andres Bejarano; Ethan Dickey</td>
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<td>1710ΨΩ</td>
<td>Hyerin Sohn†</td>
<td>Mentor(s): Michael Johnson</td>
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<td>1711</td>
<td>Braeden Strahm†</td>
<td>Mentor(s): Tatiana Ringenberg</td>
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<td>1712</td>
<td>Daanish Suhail†; Kshiti Shah†; Jack Willard†; Troy Madden†; Pryce Tharpe†</td>
<td>Mentor(s): Chih-Chun Wang; David Love; James Krogmeier; Manish Kumar Krishne Gowda</td>
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<td>1713</td>
<td>Trisha Suresh†; Paul Michael Vasquez†; Joshua Fan*</td>
<td>Mentor(s): Greg Michalski</td>
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<td>1714</td>
<td>Maheen Syed†</td>
<td>Mentor(s): Denny Yu; Marian Obuseh</td>
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<td>1715</td>
<td>Ethan Szajko†</td>
<td>Mentor(s): Daniel Szymanski</td>
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<td>1716</td>
<td>Pranav Tallapaka†</td>
<td>Mentor(s): Shauna Adams</td>
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<td>1717</td>
<td>Sarthak Tandon†; Advay Welling†</td>
<td>Mentor(s): Blake Wilson; Vahagn Mkhitaryan</td>
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<td>1718</td>
<td>Shou-Fu Tseng†; Brandon Farber†</td>
<td>Mentor(s): Tho Le</td>
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<td>1719</td>
<td>Lauren Urban†</td>
<td>Mentor(s): Anita Panjwani; Bridgette Kelleher; Regan Bailey; Steve Lindemann</td>
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<td>Alex Valdes†</td>
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<td>Theoni Vlachost†; Sophia Vlachost†</td>
<td>Mentor(s): Peristera Paschou; Apostolia Topaloudi</td>
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<td>1722</td>
<td>Lauren Voss†; Quinn Clementz*; Olivia Richter*; Samantha Maari*</td>
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<td>1723</td>
<td>Samantha Wadas†; Caden Cowles†; Sinhong Park††</td>
<td>Mentor(s): Garam Kim; Jacob Montrose; Noori Kim</td>
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<td>1724</td>
<td>Nicole Wang†; Asav Gandhi†; Stephen Fetterman†</td>
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<td>Dulani Wijayarathne†; Siddharth Prabakar*; Shah Mahir*</td>
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<td>1726ΨΩ</td>
<td>Nah’shon Williams†</td>
<td>Mentor(s): Ashima Krishna</td>
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<td>1727</td>
<td>Austin Willis†</td>
<td>Mentor(s): Gouri Prabhakar</td>
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<td>1728</td>
<td>Clayton Wimmersberger†</td>
<td>Mentor(s): Michael Johnson</td>
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<tr>
<td>1729</td>
<td>Sucheol Woo†; Min Yong Chun†; Seongyun Kim†</td>
<td>Mentor(s): Garam Kim; Ronald Sterkenburg; Yuwei He; Kangseok Lee</td>
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<tr>
<td>1730</td>
<td>Lexing Xu†; Anish Tilak†; Alexandre Chevalier*; Nicholas Erikson*</td>
<td>Mentor(s): Andreas Jung; Sushrut Karmarkar</td>
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<tr>
<td>1731Ω</td>
<td>Yahan You†</td>
<td>Mentor(s): Erin Percevault; Yiwei Huang; Aaron Thompson</td>
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</table>
RESEARCH TALKS

Research talk presentations are delivered in Stewart Center, Room 214 on April 11, 2024.

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

ROOM: STEW 214A

9:20 Impact of Structured Revision Intervention During the Peer Review Process on Scientific Writing
7000 Self-Efficacy in Undergraduate Biology Students
Allison Peterson†; Gwyneth Wong*; Emelia Koester*
Mentor(s): Stephanie Gardner; Jill Cornell

9:40 Teaching Applied Ethics in the context of Artificial Intelligence to Facilitate Peer Discourse
7001 Parth Joshi†
Mentor(s): Alejandra Magana; Lucas Wiese

ROOM: STEW 214B

9:00 Various Repetitive Behavior Types Lead to Changes in Facial Affect
7002 Riley Rozniarek†; Anna Hodge*; Mallory Schrof*
Mentor(s): Brandon Keehn

9:20 Evaluating the Perception of Vocal Fry
7003 Emily Clark†
Mentor(s): Alexander Francis

9:40 Navigating Health Information: Factors Influencing Decision Making in Emerging Adults
7004 Nicole Stepp†; Samantha Ky†; Evan Coblentz*; Caroline Packee*
Mentor(s): Monica Kasting; Andrea DeMaria; Trexie Rudd

ROOM: STEW 214C

9:00 Livestock Predation Patterns by Lions, Leopards, and Spotted Hyenas in the Ngorongoro Conservation Area, Tanzania
7005 Shayden Jones†; Max Zeltsar‡
Mentor(s): Ingela Jansson; Bernard Kissui; Emmanuel Charles

9:20 Orange Corn-based diet improves total antioxidant capacity in layer pullets compared to traditional yellow corn diets.
7006 Serena Wesley†
Mentor(s): Greg Fraley; Sara Cloft; Darrin Karcher; Torbert Rocheford; Evan Rocheford

9:40 Exploring Black Heritage in Greater Lafayette through Cultural Places, Spaces, and Landscapes
7007 Johnny Dong†
ΨΩ Mentor(s): Ashima Krishna

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
Ω Interdisciplinary Project; Ψ Archival Project; Δ Digital Humanities Project
RESEARCH TALK SESSION 2 | 10:00-11:00

**ROOM: STEW 214A**
10:00 Exploring Gut Microbiome Interventions in Age-Related Osteoarthritis Progression: Insights from Mouse Model Studies
   7008 *Noah Jasinkiewicz†; Sarah Staller‡*
   Mentor(s): Deva Chan; Cameron Villarreal; Zachary Davis
10:20 Factors Affecting the Microbiome of Hydroponics Systems
   7009 *Aanya Doshi†*
   Mentor(s): Caitlin Proctor; Emily Spicuzza
10:40 Real-Time Volatile Chemical Screening of Environmental Media to Support Disaster Response
   7010 *Grayson Wittbrodt†*
   Mentor(s): Brandon Boor; Nusrat Jung; Jianglin Jiang; Xiaosu Ding

**ROOM: STEW 214B**
10:00 Dosimetry Testing for a New In-Vivo X-Ray Fluorescence Measurement System
   7011 *Daniel Read†*
   Mentor(s): Aaron Specht; Chandler Burgos
10:20 Spatial Modifications In Pulmonary Lipids Following Nanoparticle Exposure
   7012 *Nicolas Medel†*
   Mentor(s): Jonathan Shannahan; Christina Ferreira
10:40 Role Differentiated Bimanual Manipulation in Home Environment For Infants Two Years Old and Younger
   7013 *Stephanie Koopman†; Riya Karpe†*
   Mentor(s): Laura Claxton; Paige Thompson

**ROOM: STEW 214C**
10:00 Intersectional Inequalities in Hiring: The Effects of Gender and a Criminal Record
   7014 *John Targett†*
   Mentor(s): Trent Mize
10:20 Racial inequality on Mturk: Racial Differences in Gig Worker’s Satisfaction with Schedules
   7015 *Julieta Aguilar†*
   Mentor(s): Jeremy Reynolds; Reilly Kincaid
10:40 Artificial Infrastructures: Framing Young Professional Experience
   7016 *Teah Good†; Jefferey Chen†; Ean Hunt†; Eva Voelker†; Carissa Bauerband‡*
   Mentor(s): Michael Salvo

**ROOM: STEW 214D**
10:00 The Role of Conductive Cooling and Moringa oleifera Supplementation of Heat Stressed Sows on the Cheek Lipidome of Neonatal Piglets
   7017 *Evy Tobolski†*
   Mentor(s): Theresa Casey; Leriana Garcia Reis; Linda Beckett; Allan Schinckel; Christina Ferreira
10:20 Rapid Inference and Theoretically Driven Forecasting of Supernovae using Amortized Posterior Inference
   7018 *Braden Garretson†*
   Mentor(s): Danny Milisavljevic
10:40 Tool for Runtime Analysis and Complexity Evaluator (TRACE)
   7019 *Shubhaang Agarwal†; Benson Tsai*; Tzung-Ying Hsieh*; Aanya Jha*; Jiarui Xie*; Nilisha Bhandari*
   Mentor(s): Andres Bejarano

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
Ω Interdisciplinary Project; Ψ Archival Project; Δ Digital Humanities Project
# RESEARCH TALK SESSION 3 | 11:00-12:00

## ROOM: STEW 214A

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenting Undergraduate Author</th>
<th>Contributing Undergraduate Author(s)</th>
<th>Mentors(s)</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Investigating the Implication of Delta-Like 1 Intracellular Domain Over-expression on Muscle Stem Cell Differentiation</td>
<td>Kashyap Akkinapally†</td>
<td>Shihuan Kuang; Sara Scinto</td>
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<tr>
<td>11:20</td>
<td>Withdrawn</td>
<td></td>
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<tr>
<td>11:40</td>
<td>Differences in Gut Microbial Patterns between Individuals with Angelman Syndrome and their First-Degree Relatives.</td>
<td>Carina Crisan†</td>
<td>Steve Lindemann; Anita Panjwani; Bridgette Kelleher; Regan Bailey</td>
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## ROOM: STEW 214B

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenting Undergraduate Author(s)</th>
<th>Mentors(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Racial and Ethnic Disparities in Service Referral and Use Among High-Risk Children Diagnosed with Autism Spectrum Disorder</td>
<td>Aaliyah Saunders†; Sarah Langdon‡</td>
<td>Brandon Keehn; Rebecca McNally Keehn; Angela Paxton</td>
</tr>
<tr>
<td>11:20</td>
<td>Evaluation of the Collection Efficiency of the Size-Selective Inlet Used for the Lab-Made Bioaerosol Sampler</td>
<td>Anthony Bovenschen†</td>
<td>Jae Hong Park; Subin Han</td>
</tr>
<tr>
<td>11:40</td>
<td>School Environmental Factors and Substance Use Disparities in Indiana Adolescent</td>
<td>Tanya Pinthapataya†</td>
<td>Shandey Malcolm; Rita Chukwu</td>
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</table>

## ROOM: STEW 214C

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<tr>
<th>Time</th>
<th>Title</th>
<th>Presenting Undergraduate Author</th>
<th>Contributing Undergraduate Author(s)</th>
<th>Mentors(s)</th>
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<tbody>
<tr>
<td>11:00</td>
<td>The Well-being of Habitat for Humanity’s Partner Families</td>
<td>Casey Kaufman†</td>
<td>Jason Ware</td>
<td></td>
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<tr>
<td>11:20</td>
<td>Engineering Faculty Perceptions of Participating in a SoTL Professional Development Intervention</td>
<td>Rhea Dutta†</td>
<td>Lisa Bosman</td>
<td></td>
</tr>
<tr>
<td>11:40</td>
<td>Exploring Innovative Methods for Teaching Semiconductors to young children</td>
<td>Salam Zaid Alkilani†; Sebastian Arthur‡</td>
<td>Rosa Diaz</td>
<td></td>
</tr>
</tbody>
</table>
RESEARCH TALK SESSION 4 | 12:00-1:00

ROOM: STEW 214A
12:00 Autonomous in-air charging for UAVs
7029 Craig Cheung†; Abhishek Kini†; Aayush Iyengar†; Nikita Dubrovskiy†
Mentor(s): Ran Dai; Yooseung Choi
12:20 In-air Charging of Unmanned Aerial Vehicles
7030 Aayush Iyengar†; Craig Cheung‡; Yooseung Choi‡; Abhishek Kini‡; Nikita Dubrovskiy‡; Megan Collins‡; Ethan Walker‡; Clifford Gamble‡
Mentor(s): Ran Dai
12:40 Convolutional Neural Networks for Enhanced Subvisible Particle Analysis
7031 Anika Mathur†; Sohum Thadani†
Mentor(s): Brett Meyers; Pavlos Vlachos

ROOM: STEW 214B
12:00 Overview of the Child Automated Speech to Text (CAST) Project
7032 Akshitha Kartigueyan†; Aadya Pawar†; Bruna Jasinowodolinski†
Ω Mentor(s): David Purpura; Avery Closser
12:20 Implementing Campus-Wide Vaccine Clinics Through Interdisciplinary and Community Partnerships
7033 Samantha Ky†; Nicole Stepp†; Evan Coblentz‡; Sathveka Sembian‡; Caroline Packee*
Ω Mentor(s): Monica Kasting; Andrea DeMaria; Trexie Rudd; Kaitlyn Koch
12:40 Upcycling Biomass to Sustainable Aviation Fuel via Far-Equilibrium Electrification
7034 Simone Moulton†
Ω Mentor(s): Tony Dong; Tian Li; Abhirup Sen

ROOM: STEW 214C
12:00 Digitalized Manufacturing of Fiber-reinforced Composite Patching for Steel Bridge Girder Repair
7035 Clayton Cobb†; Jeremy Rashkin†; Chloe Graham†
Mentor(s): Garam Kim; Sung Jun Choi; Timothy Ropp; Kyubyung Kang
12:20 Investigation on the Impact of Target Surfaces in Relation to Rotorcraft Fuel Tank Drop Test
7036 Certification Processes.
    Matthew Elliott†; Ryan Seller†; Simon Lin†
Mentor(s): Garam Kim; Jacob Montrose; Waterloo Tsutsui
12:40 Acoustic-based sensing for detection of potato tuber
7037 Stephane Duval†; Parikshit Sah†
Mentor(s): Suranjian Panigrahi

ROOM: STEW 214D
12:00 The Making of the BGA: Black Games Archive
7038 Joanna Senff†
Δ Mentor(s): Samantha Blackmon
12:20 The Effectiveness of Protest Strategies: An ACT UP Analysis
7039 Kris Sass†
Ψ Mentor(s): Kathryn Brownell
12:40 Accurate Iron Quantification in Cells
7040 Sidney Schwartz†
Mentor(s): Matthew Scarpelli
RESEARCH TALK SESSION 5 | 1:00-2:00

ROOM: STEW 214A
1:00 Placing Electric Vehicle Charging Stations: An Optimization Problem and Unsupervised Machine Learning Solution
Bharath Anand†
Mentor(s): Ananth Grama

1:20 Spatial and Temporal Diffusion of Secondary Injury Markers following Localized Brain Injury In Vitro
David Kim†
Mentor(s): Riyi Shi; Timothy Beauclair

1:40 Material Stiffness Sensing using DEAs
Pranav Parigi†
Mentor(s): Alex Chortos

ROOM: STEW 214B
1:00 Disrupting the Binary in Laboratory Paradigms: Validation of a New Measure of Emotional Variation in Cognitive Control
Mads Owen†
Mentor(s): Sarah Karalunas; McKenzie Figuracion

1:20 The effects of COVID-19 vaccine on hormone levels in adolescence and disparity between sexes
Prudence Regacho†
Mentor(s): Kristine Marceau

1:40 Latent Learning Trends Using AI and VR
Leland Huey†
Mentor(s): Jerod White; Tara Behrend

ROOM: STEW 214C
1:00 Noncanonical regulation of genes by KMT5C-H4K20me3 in EGFR inhibitor resistance in non-small cell lung cancer
Alexandra Glaws†
Mentor(s): Andrea Kasinski; Jihye Son

1:20 Diagnostic gas-phase ion-molecule reactions for the identification of hydroxy-substituted N-nitrosamines in tandem mass spectrometry
Daria Tsoneva†
Mentor(s): Hilkka Kenttamaa; Annika Little

1:40 Withdrawn

ROOM: STEW 214D
1:00 Exploring the Quantitative Impact Medical Marijuana Dispensaries Have on Residential Sale Prices in Oklahoma
Joshua Clark†
Mentor(s): Michael Delgado

1:20 What factors influence the willingness to pay and consumption frequency of different meats in Chinese consumers?
Jemima Baributsa†
Mentor(s): Holly Wang; Yizhou Hua

1:40 Estimation of Genetic Parameters for Twinning Rate in Holstein Cattle
Hsin-Yu (Sinyu) Hou†
Mentor(s): Hinayah Rojas de Oliveira; Henrique Mulim; Jacquelyn Boerman; Luiz Brito

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
Ω Interdisciplinary Project; Ψ Archival Project; Δ Digital Humanities Project
**RESEARCH TALK SESSION 6 | 2:00-3:00**

**ROOM: STEW 214A**

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<tbody>
<tr>
<td>2:00</td>
<td>Mechanosynthesis of Urea-Gypsum Cocrystals</td>
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<td>2:05</td>
<td>Tovia Owens†</td>
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<tr>
<td>Ω</td>
<td>Mentor(s): Kingsly Ambrose; Vidya Nagaraju</td>
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<tr>
<td>2:20</td>
<td>Decoding fNIRS Neural Responses: A Machine Learning Approach</td>
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<tr>
<td>2:25</td>
<td>Dalton Aaker†</td>
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<tr>
<td>Ω</td>
<td>Mentor(s): Maureen Shader</td>
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<tr>
<td>2:40</td>
<td>Predicting EV Charging Station Demand: A Novel Approach Utilizing Traffic Flows</td>
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<td>2:45</td>
<td>Hsin-Wei (Ryan) Hsieh†; Hyunsang (Ethan) Cho†; Jaewon Cho†; Zachary Witeck†; Byung Wook Kim†; Hyunjun Park†; Spencer Gries†; Kisal Wijesooriya†; Thilak Babu*</td>
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<td>Mentor(s): Siwaranjani Seetharaman</td>
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**ROOM: STEW 214B**

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<tr>
<td>2:00</td>
<td>Development and evaluation of a ferritin-Izumo1 protein vaccine for immunocontraception of wildlife.</td>
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<tr>
<td>2:05</td>
<td>Gangmin Kim†; Delilah Flora‡</td>
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<td>Mentor(s): Harm HogenEsch; Ahmed AbdelKhalek; Raluca Ostafe</td>
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<tr>
<td>2:20</td>
<td>Examining Neuron Density in human-derived Cortical Organoids Carrying Epilepsy-Related SCN2A</td>
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<td>Mutation L1342P</td>
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<td>Hope Harlow†</td>
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<td>Mentor(s): Yang Yang; Maria Olivero-Acosta</td>
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**ROOM: STEW 214C**

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<tr>
<td>2:00</td>
<td>Benchmarking Quantum Error Correction Codes Against Realistic Error Models for Superconducting Qubits</td>
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<tr>
<td>2:05</td>
<td>Santiago Lopez†; Jonathan Andrade Plascencia*</td>
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<td>Mentor(s): Alex Ruichao Ma; Gabriel Perdue</td>
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<tr>
<td>2:20</td>
<td>Cold Spot Crater Characterization on the Moon Using an Unsupervised Neural Network</td>
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<td>2:25</td>
<td>Sara Cuevas-Quiñones†</td>
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<td>Mentor(s): Ali Bramson†; Lior Rubanenko</td>
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<th>Time</th>
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<tr>
<td>2:40</td>
<td>How skin color modulates behavioral fever in Northern leopard frogs</td>
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<td>2:45</td>
<td>Ethan Guardado†</td>
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<td>Mentor(s): Cat Searle; Jonathan Lopez</td>
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**ROOM: STEW 214D**

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<th>Time</th>
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<tr>
<td>2:00</td>
<td>Impact of Freedom School At Purdue For Students K-5</td>
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<tr>
<td>2:05</td>
<td>Teagan Drumm†; Lauren Spedale*</td>
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<tr>
<td></td>
<td>Mentor(s): Breanya Hogue; Youli Mantzicopoulos</td>
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<tr>
<td>2:20</td>
<td>A Metanalysis over Autism Spectrum Disorder and Math Word Problem Intervention</td>
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<tr>
<td>2:25</td>
<td>Nicholas Cline†</td>
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<td>Mentor(s): Yan Ping Xin</td>
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</table>
RESEARCH TALK SESSION 7 | 3:00-4:00

ROOM: STEW 214A
3:00  High-throughput platform for macromolecular transport screening
7063  Crystal Jiang†
Mentor(s): Julie Liu; Paulina Babiak
3:20  An in vivo assessment of cardiac remodeling during chronic hypertension in pregnancy
7064  Sarah Grev†
Mentor(s): Craig Goergen; Elnaz Ghajar-Rahimi; Adalyn Meeks; Kyoko Yoshida; Molly Kaissar
3:40  Enhancing Solid Propellant Burning Rate Predictions through Machine Learning Modeling
7065  Camille Jorenby†
Mentor(s): Steven Son; Shane Oatman

ROOM: STEW 214B
3:00  The International Congress of Women and Transnational Advocacy Networks
7066  Annelise May†
Ψ  Mentor(s): Melissa Will
3:20  Constructing Carol: Racial Science, Eugenics, Biological Essentialism, and Carcerality
7067  August Trepanier†
Ψ  Mentor(s): Yvonne Pitts
3:40  Examining how Mitochondrial Content Differences in Twin Plant Sperm Cells Impact Double Fertilization
7068  Keila Jellings†
Mentor(s): Leonor C. Boavida

ROOM: STEW 214C
3:00  Scaling limit of asymptotically-free self-interacting random walks to Brownian Motion perturbed at Extrema
7069  Xiaoyu Liu†
Mentor(s): Jonathon Peterson; Thomas Mountford
3:20  A Genomic Analysis of the Global House Dust Mite Allergen Diversity
7070  Sarah Bennett†
Mentor(s): Qixin He; Pavel Klimov
3:40  Quantifying the impact of cone opponency on predictions of color discrimination.
7071  Lilianne Brush†
Mentor(s): Esteban Fernandez-Juricic; Carlay Latour Teed

ROOM: STEW 214D
3:00  Does Consuming Mushrooms with a Healthy Mediterranean-style Diet Pattern Affect Indexes of Brain Health in Adults?
7072  Nok In Chan†
Ω  Mentor(s): Wayne Campbell; Dan Foti
3:20  Developmental Exposure of Human Induced Pluripotent Stem Cell-derived Cortical Cultures to Methylmercury Induces Persistent Functional Effects
7073  Madeleine Strom†
Ω  Mentor(s): Aaron Bowman; Anke Tukker
3:40  Designing, Implementing, and Evaluating a Sex Trafficking & Domestic Violence Training Program for Licensed Salon Professionals in Indiana
7074  Juliana St. Denis†; Abhinaya Nagalla†; Ashton Allen†; Jordan Cooley†; Alexandria Bedard†; Sophie Shank‡; Evan Coblentz‡
Ω  Mentor(s): Kathryn Seigfried-Spellar; Andrea DeMaria; Alexandra Hughes-Wegner

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement  Ω Interdisciplinary Project; Ψ Archival Project; Δ Digital Humanities Project
RESEARCH TALK SESSION 8 | 4:00-5:00

ROOM: STEW 214A
4:00 Water Quality Assessment of Air Conditioning Condensate for Onsite Use
7075 Jackie De Leon†
Mentor(s): David Warsinger; Andrew Fix; Andrew Freeman
4:20 Demonstrating Space Planning Possibilities using Trend and Outlier Analysis of International Space Station Data
7076 Davi Carvalho†; Chirag Pimpale†
Mentor(s): Xiaoyu Liu
4:40 Engineered Collagen Polymeric Materials Maintain Tissue Volume and Support Regenerative Remodeling after Volumetric Muscle Loss
7077 Joshua Sexton†
Mentor(s): Sherry Harbin; Stacey Halum; Lujuan Zhang; Rachel Morrison

ROOM: STEW 214B
4:00 Nitrous Oxide and its Agents of Influence
7078 Lila McMahill†
Mentor(s): Rich Grant
4:20 Systematic Development and Optimization of Helix Stabilized Stapled Peptides for Inhibitory Use Against the Viral Oncoprotein, HPV-E6
7079 Elizabeth Andersen†; Karthik Arcot‡; Sophie Zhou‡
Mentor(s): Jo Davisson; Vallabh Suresh; Dino Petrov

ROOM: STEW 214C
4:00 ARTEMIS: AI-driven Robotic Triage Labeling and Emergency Medical Information System
7080 Revanth Krishna Senthilkumaran†; Mridu Prashanth†
Mentor(s): Aniket Bera; Kshitij Tiwari; Hrishikesh Viswanath
4:20 Exploring Protein-bound Chlorophyll a’s Vibrational Spectrum at Room Temperature Through Microsampling and Isotope Substitution
7081 Sarah Alvarez†; Sajal Salim*
Mentor(s): Mike Reppert; Jacob Wat
4:40 Cellular Activation is Sensitive to Abundance and Distribution of Rare Lipids
7082 Alex Alonzo†
Mentor(s): Shalini Low-Nam; Joy Wu; Vinay Menon

JOIN US IN JULY FOR THE
SUMMER SYMPOSIUM
July 25, 2024
# THE LLLC COLLOQUIUM

**THE LITERATURE, LINGUISTICS, LANGUAGES, & CULTURE COLLOQUIUM**

LLLC Colloquium presentations are delivered in Stewart Center, Room 218 on April 11, 2024.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>10:00</td>
<td>LOL or MDR: The Importance of Slang When Teaching a Second Language</td>
<td>Emma Niecikowski†</td>
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<td>Mentor(s): Jessica Sturm</td>
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<td>10:20</td>
<td>“Short” Verb Movement in Gan Hakka</td>
<td>Yongjia Deng†</td>
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<td>Mentor(s): Elena Benedicto</td>
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<td>10:40</td>
<td>Healing Words: A Comparative Exploration of Physician Writers Across Cultures and Centuries</td>
<td>George Francis†</td>
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<td>Mentor(s): Olga Lyanda-Geller</td>
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<td>11:00</td>
<td>Metamorphoses I.294: Context and Implications in Roman Literature</td>
<td>Sophia Cross†</td>
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<td>Mentor(s): Marianne Blickenstaff</td>
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<td>11:20</td>
<td>Expanding Russian Vocabulary through Acquisition of Rocket Propulsion Technology Terminology</td>
<td>Pavit Hooda†</td>
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<td>Mentor(s): Olga Lyanda-Geller</td>
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<td>11:40</td>
<td>Italian Neorealism Influence in Mexican Cinema</td>
<td>Nicandro Diaz Butron†</td>
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<td>Mentor(s): Elena Coda</td>
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<td>12:00</td>
<td>Preserving Your Language: Native Speakers in Another Linguistic Environment</td>
<td>Elina Gorenstein†</td>
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<td>Mentor(s): Olga Lyanda-Geller</td>
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<td>12:20</td>
<td>Anton Chekov’s Observation of Suffering on the Island of Sakhalin</td>
<td>Emily Gervais†</td>
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<td>Mentor(s): Olga Lyanda-Geller</td>
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<td>12:40</td>
<td>Understanding Factors Contributing to the Housing Shortage at Purdue University</td>
<td>Aaron Gonzalez†</td>
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<td>Mentor(s): Michael Johnson</td>
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<td>1:00</td>
<td>Choice of Classifier Handshape in Motion Predicates in ASL</td>
<td>Daniella Simon†; Isabella Davis†</td>
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<td>Mentor(s): Elena Benedicto; Kathleen Wagner</td>
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<td>1:20</td>
<td>Eugenics and Transhumanism in 20th and 21st Century Literature</td>
<td>Emmy Gottsmant†</td>
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<td>Mentor(s): Maren Linett</td>
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<td>1:40</td>
<td>Systemic Racism in the Education of Latinos</td>
<td>Mari lu Perez Castro†</td>
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<td>Mentor(s): Cara Kinnally</td>
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<td>2:00</td>
<td>Analyzing Social and Cultural Determinants of Cancer Outcomes in Latinx Communities</td>
<td>David Arteaga†</td>
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<td>Mentor(s): Cara Kinnally</td>
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<td>2:20</td>
<td>Analysis of Trends and Contents of Russian and Ukrainian Economic Vocabularies of 1990s - 2010s</td>
<td>Davyd Revenko†</td>
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<td>Mentor(s): Olga Lyanda-Geller</td>
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† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
Ω Interdisciplinary Project; Ψ Archival Project; Δ Digital Humanities Project
2:40 Migration Patterns in Renaissance Venice
8014 Alexandra Neikirk†
Mentor(s): Elena Coda

3:00 Purdue Empowers Stress Management Among Students
8015 Marie-Alexan Gnagne†
Mentor(s): Michael Johnson

3:20 The Language of Thought: How Language Affects Thought in Dystopian Literature
8016 Tessa Stahly†
Mentor(s): Elena Coda

3:40 Expressions of “fire” in English, Russian, and Spanish
8017 Rowan Thornton†
Mentor(s): Amina Gabrielov

VIRTUAL PRESENTATIONS

Presentations available on Spring Conference website April 9-16, 2024.
Posters sorted by last name of first author within each session.

9000 Hassan Alalawi†; Varun Vaidyanathan†; Yue Yin†; Derek Chi†
Mentor(s): Mark Johnson; Ryan Montsma; Cole Nelson

9001 Sydney Bansback†
Mentor(s): Kim Kinzig; Brent Bachman

9002 Ishaan Bhatt†; Rithvik Raja‡; Aryan Kadakia‡; Raam Diora‡
Mentor(s): Mark Johnson

9003 Macy Blucher†
Mentor(s): Michael Johnson

9004 Eric Butz†
Mentor(s): Sidney Ducleroir

9005 Ziwen Cai†
Mentor(s): Smriti Bhatt

9006 Jaehong Choi†; Rohan Joshi†; Wen-Bo Hung†; Yunlin Zhang†
Mentor(s): Mark Johnson; Ryan Montsma; Jude Pinto; Maxwell Michalec

9007 Ava Flynn†; Moeyad Omer†; Zion Hackett†; Grant Congdon†; Mia Wilhite†; Divya Manvikat†; Myra Khare†
Mentor(s): Aaron Lottes; Andrew Sivaprakasam

9008 Maelyn Fulton†
Mentor(s): A.J. Schwichtenberg; Amy Janis; Moon West

9009 Huimin Gai†; Qiaoqiao Wang†
Mentor(s): Yu-Chin Chiu

9010 Shrienidhi Gopalakrishnan†; Vinay Gupta‡
Mentor(s): Brian Lee

9011 Renee Hallstein†
Mentor(s): Lynda Peter; Youn Choi

9012 Hyun (Eric) Kang†
Mentor(s): Tillmann Kubis; Logan Melican

9013 Claire Kim†; William Kwon†
Mentor(s): Mark Johnson; Matthew Swabey; Cole Nelson

9014 Woosik Kim†; Guo Yu†; Mengting Xu†
Mentor(s): Qi Guo

9015 Garrett Lai†; Jonathan Huang*; Sudharva Donakonda*
Mentor(s): Cole Nelson

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

9017 Jessica Lyng†; Rongbo Hu†; Sophie Duan*; Qinjia Xu*; Rika Chang*
Mentor(s): Abolfazl Hashemi; Zijian He

9018 Rahul Menon†; Benjamin Miller†; Andrew Liu†; Sangjin Lee†; Ansh Gangapurkar†; Hyun (Eric) Kang†
Mentor(s): Tillmann Kubis; Logan Melican

† Presenting Undergraduate Author; ‡ Contributing Undergraduate Author; * Undergraduate Acknowledgement
Ω Interdisciplinary Project; Ψ Archival Project; Δ Digital Humanities Project
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