

Summer 2023 Undergraduate Research Symposium: *Science*

This list is inclusive of all presentations where either at least one student or at least one mentor is linked to the specified division. Students' and Mentors' names and their divisions are based on information submitted in conference applications, except for the following:

- If student's division is missing from the application, their divisions listed are based on institutional data.
- If a mentor's division is missing from the application, their division listed is based on their primary appointment at Purdue. Some Mentors' divisions may be missing or incorrect.
- For non-Purdue students or mentors, their primary institution/organization is listed instead.
- Spelling of names and appear as submitted in the conference application, with minor corrections for formatting or obvious errors.

Student Role Notation: †Presenting Author, ‡ Contributing Author, *Acknowledgement

Presentation	Students	Mentors
Poster #100 presented 7/27 @ 10:00-11:30am	Keriany Fuentes† (Science)	Hilkka Kenttämä (Science) Annika Little (Science)
Poster #101 presented 7/27 @ 10:00-11:30am	Tierah Macon† (Vanderbilt University)	Graham Cooks (Science) L. Edwin Gonzalez (Science) Thomas Sams (Science) Eric Dziekonski (Science)
Poster #102 presented 7/27 @ 10:00-11:30am	Philip Mancino† (Purdue University, Cornell University)	Lauren Ann Metskas (Science) Ryan Gray (Science) Debbie Mettle (Science) Rose Wilfong (Science)
Poster #103 presented 7/27 @ 10:00-11:30am	Taylor Ortiz† (Science)	Gaurav Chopra (Science) Caitlin E. Randolph (Science) Pooja Saklani (Science) Connor H. Beveridge (Science)
Poster #104 presented 7/27 @ 10:00-11:30am	Nicole Plein† (Webster University)	Andy Tao (Science) Will LeFever (Science)
Poster #106 presented 7/27 @ 10:00-11:30am	Michael Vullo† (Science)	Jeffrey Dick (Science) Joshua Reyes Morales (Science) Saptarshi Paul (Science) Myles Edwards (Science)
Poster #110 presented 7/27 @ 10:00-11:30am	Alex Caint† (Virginia Wesleyan University)	Seema Mattoo (Science) Sherlene Brown (Agriculture)
Poster #114 presented 7/27 @ 10:00-11:30am	Ethan A. Muñoz Carrasco† (University of Puerto Rico-Humacao and Purdue University)	Catherine Searle (Science) Aura Y. Muñoz Torres (Science)
Poster #116 presented 7/27 @ 10:00-11:30am	Cynthia Vazquez† (Science)	Scott Briggs (Agriculture) Justin Gregor (Agriculture)
Poster #123 presented 7/27 @ 10:00-11:30am	Emma Newton† (Agriculture, Engineering)	Mark Daniel Ward (Science) Luiz Brito (Agriculture)
Poster #141 presented 7/27 @ 10:00-11:30am	Madelyn Whitaker† (Engineering) Catie Fleming* (Engineering) Will Townsend* (Engineering) Alex Mate* (Engineering) Emily Spicuzza* (Science)	Caitlin Proctor (Agriculture)
Poster #145 presented 7/27 @ 10:00-11:30am	Sarah Alvarez† (Science) Sajal Salim‡ (HHS)	Mike Reppert (Science) Jacob Hnatusko (Science)
Poster #146 presented 7/27 @ 10:00-11:30am	Umar Arshad† (Science)	Chen-Lung Hung (Science)

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Presentation	Students	Mentors
Poster #147 presented 7/27 @ 10:00-11:30am	David Arteaga† (Science)	Andrea Kasinski (Science) Zulaida Soto-Vargas (Science) Humna Hasan (Science) Ikjot Sohal (Science)
Poster #150 presented 7/27 @ 10:00-11:30am	Mariana Benavides† (Los Andes University)	Severin Schneebeli (Pharmacy) Anthony Mena (Science)
Poster #160 presented 7/27 @ 10:00-11:30am	Nicholas Colvin† (Science)	Christina Li (Science) William Swann (Science)
Poster #165 presented 7/27 @ 10:00-11:30am	Aislinn Davis† (Science)	Daniel Suter (Science) Paola Vega Rodriguez (Science)
Poster #169 presented 7/27 @ 10:00-11:30am	Paige Edens† (Agriculture)	Alexander Chubykin (Science) Sanghamitra Nareddula (Science) Michael Zimmerman (Engineering)
Poster #172 presented 7/27 @ 10:00-11:30am	Paula Galindo Moreno† (Science)	Catherine Searle (Science) Jonathan Lopez (Science)
Poster #173 presented 7/27 @ 10:00-11:30am	Braden Garretson† (Science)	Dan Milisavljevic (Science)
Poster #177 presented 7/27 @ 10:00-11:30am	Elizabeth Hernandez Perez† (Science)	Stanton Gelvin (Science) Nana Liu (Science) Lan-Ying Lee (Science)
Poster #179 presented 7/27 @ 10:00-11:30am	Emma Hoffman† (Engineering)	Julia Laskin (Science) Syeda Nazifa Wali (Science)
Poster #180 presented 7/27 @ 10:00-11:30am	Sophia Horn† (Science)	Maria Sepúlveda (Agriculture) Anna Bushong (Agriculture) Tyler Hoskins (Agriculture)
Poster #181 presented 7/27 @ 10:00-11:30am	Jungeun Hwang† (Science) Son Ha† (Science)	Dharmendra Saraswat (Agriculture) Varun Aggarwal (Engineering) Aanis Ahmad (Engineering)
Poster #184 presented 7/27 @ 10:00-11:30am	Shreya Ompreeti Ippili† (Science)	Lin Tan (Science) Jiang (Science)
Poster #187 presented 7/27 @ 10:00-11:30am	Faarza Khan† (GIK Institute)	Greg Michalski (Science)
Poster #190 presented 7/27 @ 10:00-11:30am	Kyung Min Ko† (Science)	Lin Tan (Science) Jiang (Science)
Poster #195 presented 7/27 @ 10:00-11:30am	Manuel Francisco Martinez Motta† (Science)	Michelle Thompson (Science) Laura Chaves (Science)
Poster #196 presented 7/27 @ 10:00-11:30am	Kathryn McGregor† (Science)	Arielle Borovsky (HHS) Amanda Yuile (HHS)
Poster #199 presented 7/27 @ 10:00-11:30am	Zach Miles† (Science)	Ruichao Ma (Science) Sheng-Wen Huang (Science) Ramya Suresh (Science) Kevin Barrow (Science) Jian Liao (Science)
Poster #206 presented 7/27 @ 10:00-11:30am	Noor Owayni† (Pharmacy)	Betsy Parkinson (Science) Namuunzul Otgontseren (Science) Christina Martinez-Brokaw (Purdue University)
Poster #208 presented 7/27 @ 10:00-11:30am	Henry Peng† (Science) Ahn Nhu‡ (Science) Yuke Zhang‡ (Science)	Lei Wang (Science) Valentina Castañeda (Science)
Poster #209 presented 7/27 @ 10:00-11:30am	Ethan Pinarski† (Science)	Kyoung-Soo Lee (Science) Vandana Ramakrishnan (Science)
Poster #212 presented 7/27 @ 10:00-11:30am	Yaisa Ramirez† (Engineering) Javier Castillo‡ (Engineering)	Erneto Marinero (Engineering) Juan Carlos Verduzco (Engineering) Sebastian Calderon (Science)

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Presentation	Students	Mentors
Poster #215 presented 7/27 @ 10:00-11:30am	Karlianie Rivera† (University of Puerto Rico - Mayaguez)	Qing Deng (Science) Shelly Tan (Science)
Poster #221 presented 7/27 @ 10:00-11:30am	Stuti Shah† (University of Rochester)	Martin Kruczenski (Science) Derek Ping (Science) Syeda Neha Zaidi (Science)
Poster #223 presented 7/27 @ 10:00-11:30am	Grace Stanton† (Science)	David Porterfield (Engineering) Manisha Dagar (Engineering) Alexander Baena (Engineering) Marshall Tabetah (Engineering)
Poster #227 presented 7/27 @ 10:00-11:30am	Amani Talbert† (Morehouse College)	Deva Chan (Engineering) Janice Evans (Science) Aritra Chatterjee (Engineering) Dhulika Ravinuthala (Science)
Poster #236 presented 7/27 @ 10:00-11:30am	Tongwei Zhang† (Science)	Denny yu (Engineering) Guoyang Zhou (Engineering)
Poster #238 presented 7/27 @ 10:00-11:30am	Daniel Zout† (Science)	Severin T. Schneebeli (Pharmacy) Olav Vestrheim (Science)
Poster #239 presented 7/27 @ 10:00-11:30am	McKenna Clinch† (University of Kentucky)	Christina Li (Science) Joanna Rosenberger (Science)
Poster #300 presented 7/27 @ 1:00-2:30pm	Emma Bartley† (Agriculture) Dylan Seets† (Science) Andrew Keck† (Science)	Darrin Karcher (Agriculture) Carl Kroger (Agriculture)
Poster #304 presented 7/27 @ 1:00-2:30pm	Hope Harlow† (Pharmacy) Muhan Wang* (Pharmacy) Conrad Otterbacher* (Science)	Yang Yang (Pharmacy) Maria Olivero-Acosta (Pharmacy)
Poster #307 presented 7/27 @ 1:00-2:30pm	Logan Kitts† (Science) William Lock Falcon‡ (Science) Emma Jeffries‡ (Science) Maren Gingrich‡ (Science)	Gudrun Schmidt (Science)
Poster #313 presented 7/27 @ 1:00-2:30pm	Krishna Shah† (Science)	Ximena Bernal (Science) Richa Singh (Science)
Poster #319 presented 7/27 @ 1:00-2:30pm	Mariana Guzman Sanchez† (Science)	Steve Lindemann (Agriculture) Rubesh Raja (Agriculture)
Poster #327 presented 7/27 @ 1:00-2:30pm	Nellie Walthery† (Science)	Andrew Flachs (Liberal Arts) Steve Hallett (Agriculture)
Poster #328 presented 7/27 @ 1:00-2:30pm	Megan Webb† (Science)	Karin Ejendal (Engineering) Tamara Kinzer-Ursem (Engineering)
Poster #353 presented 7/27 @ 1:00-2:30pm	Connor Murray† (Connecticut College)	Stan Gelvin (Science) Lan-Ying Lee (Science)
Poster #356 presented 7/27 @ 1:00-2:30pm	Adriana A. Bustos Torres† (Science)	Ximena Bernal (Science) Ana Maria Ospina (Science)
Poster #357 presented 7/27 @ 1:00-2:30pm	Alexander Crook† (Science)	John Tesmer (Science) Chun-Liang Chen (Science) Pooja Yadav
Poster #359 presented 7/27 @ 1:00-2:30pm	Marielle Denise Melendez† (Science)	Leifu Change (Science) Dan Xie (Science)
Poster #360 presented 7/27 @ 1:00-2:30pm	Hugo Ortiz-Garcia† (Science)	Seema Mattoo (Science) Ben G Watson (Science)
Poster #361 presented 7/27 @ 1:00-2:30pm	Kanishka Singh† (Science)	Ximena Bernal (Science) Richa Singh (Science)
Poster #367 presented 7/27 @ 1:00-2:30pm	Eshaana Aurora† (Engineering, Science)	Peter Bermel (Engineering) Geoffrey Sanchez (Engineering) Changkyun Lee (Engineering)

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Presentation	Students	Mentors
Poster #405 presented 7/27 @ 1:00-2:30pm	Arghya Sarkar† (Science)	Neera Jain (Engineering) Madeleine Yuh (Engineering)
Poster #411 presented 7/27 @ 1:00-2:30pm	Yashaswini Subramaniam† (Science)	Arvind Sundaram (Engineering) Tyler Lewis (Engineering) Hany Abdel-Khalik (Engineering)
Poster #439 presented 7/27 @ 1:00-2:30pm	Yiyang Shui† (Engineering) Boheng Zhao‡ (Engineering, Science) Edmund Leung‡ (Engineering)	Mark Johnson (Engineering) Cole Nelson (Engineering)
Research Talk #502 presented 7/27 @ 9:40am	Charles Thrift† (Agriculture)	Shihuan Kuang (Agriculture) Madigan Snyder (Science)
Research Talk #505 presented 7/27 @ 9:40am	Misa Meadowst† (Belhaven University)	Andrew Mesecar (Agriculture) Uttara Jayashankar (Science) Sydney Beechboard (Agriculture) Emma Lendy (Agriculture)
Research Talk #517 presented 7/27 @ 10:40am	Jack Morehouse† (Science) Sarah Pfisterer* (Agriculture) Connor Adamek* (Agriculture)	Jason Hoverman (Agriculture) Devin Jones (Agriculture)
Research Talk #518 presented 7/27 @ 10:00am	Ryan Yin†	Zhao-Qing Luo (Science) Kayla Perri (Science)
Research Talk #525 presented 7/27 @ 10:20am	Darin Tsai† (Engineering, Science)	Patrick Hyun (Engineering) Shijun Zhou (Engineering)
Research Talk #534 presented 7/27 @ 11:20am	Sydney Moeller† (Science)	Ximena Bernal (Science) Shilpi Singh (Science) Richa Singh (Science) Sam Freedlund (Engineering)
Research Talk #535 presented 7/27 @ 11:40am	Jeremy Harrist† (Science)	Gouri Prabhakar (Science) Christopher Rapp (Science)
Research Talk #539 presented 7/27 @ 11:00am	Joshua Kamphuis† (Engineering) Tim Nadolsky‡ (Science) Kevin Kwon* (Engineering) Tanin Padungkirtsakul* (Engineering) Sanya Dod* (Engineering) Kareena Patel* (Liberal Arts) Rochelle Xue* (Engineering) Haichang Li* (Engineering)	Yung-Hsiang Lu (Engineering) Kristen Yeon-Ji Yun (Liberal Arts) Purvish Jajal (Engineering)
Research Talk #540 presented 7/27 @ 11:20am	Anusha Sarraf† (Science)	James Davis (Engineering) Purvish Jajal (Engineering)
Research Talk #551 presented 7/27 @ 1:00pm	Sarthak Mangla† (Science)	Craig Goergen (Engineering) Conner Earl (Engineering) Guang Lin (Science)
Research Talk #557 presented 7/27 @ 2:00pm	Amanda Marchi† (Science)	Bryon Drown (Science) Jacob Seay (Science)
Research Talk #562 presented 7/27 @ 2:40pm	Gustavo Sáez Cruz† (Science) Jessica John Britto† (Science)	Arnab Banerjee (Science) Varadharajan Muruganandam (Science) Sayan Roy (Engineering) Bishnu Prasad Belbase (Science) KEERTHI KUMARAN ALAGARSAMY MANIKANDAN (Science)
Research Talk #563 presented 7/27 @ 2:00pm	Son Ha† (Science) Jungeun Hwang‡ (Science)	Dharmendra Saraswat (Agriculture) Varun Aggarwal (Engineering) Aanis Ahmad (Engineering)
Research Talk #565 presented 7/27 @ 2:40pm	Emily Bell† (Science) Andres Navarro‡ (Science)	Ed Bartlett (Science) Meredith Ziliak (Engineering)

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Presentation	Students	Mentors
Research Talk #568 presented 7/27 @ 2:40pm	Hannah Tharrington [†] (Science) Catherine Fleming* (Engineering)	Paula Coelho (Engineering) Paula Coelho (Engineering) Caitlin Proctor (Engineering)
Research Talk #572 presented 7/27 @ 3:00pm	Bobby Estrada [†] (Science)	Wen Jiang (Science) Xiaoqi Zhang (Science)
Research Talk #573 presented 7/27 @ 3:20pm	Soren Spina [†] (Clemson University)	Angeline Lyon (Science) Ketaki Mahurkar (Science) Elisabeth Garland-Kuntz (Science)
Research Talk #574 presented 7/27 @ 3:40pm	Amanda Xu [†] (Cornell University)	Nick Noinaj (Science) Zhong-Yin Zhang (Pharmacy) Evan Billings (Science) Zihan Qu (Science)
Research Talk #578 presented 7/27 @ 3:00pm	Matthew Schiavone [†] (Engineering)	Jianguo Mei (Science) Mustafa Ahmed (Science)
Research Talk #579 presented 7/27 @ 3:20pm	Julia Ku [†] (Engineering) Camila Strachan [‡] (New York University) Matthew Wilson [‡] (Science)	Garth Simpson (Science) Kevin Murati (Science) Gwendylan Turner (Science) Caitlin Dunlap (Science)
Research Talk #580 presented 7/27 @ 3:40pm	Anusha Waseem [†] (Engineering)	Greg Michalski (Science)
Research Talk #587 presented 7/27 @ 4:00pm	Alejandra Johnson [†] (Science)	Richard Kuhn (Science) Thomas Klose (Science) Jacqueline Anderson (Science)
Research Talk #588 presented 7/27 @ 4:20pm	Emmaleigh Shinno [†] (Pennsylvania State University) Andrew Walke [‡] (Science)	Shalini Low-Nam (Science) Andrew Walke (Science) Vinay Menon (Science)
Research Talk #591 presented 7/27 @ 4:20pm	Yuvraj Chauhan [†] (Engineering)	Andreas Jung (Science) Sushrut Karmarkar (Engineering) Benjamin Denos (Engineering)
Research Talk #592 presented 7/27 @ 4:40pm	Kayla Xu [†] (Engineering)	Ming Qu (Engineering) Jaewoo Shin (Science) Dikai Xu (Engineering)
Research Talk #713 presented 7/26-7/31 virtually	Julián Andrés Navarrete Urrego [†] (Science)	Robin Tanamachi (Science)
Research Talk #714 presented 7/26-7/31 virtually	Yu Mo [†] (Science)	Mark Ward (Science)
Research Talk #717 presented 7/26-7/31 virtually	Aneesh Chakravarthula [†] (Science)	Christopher Thompson (Information Technology) Lev Gorenstein (Research Computing)