

Summer 2023 Undergraduate Research Symposium: *Engineering*

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 #107 presented 7/27 @ 10:00-11:30am	Abigail Miller† (Front Range Community College)	Brandon Allen (Engineering)
Poster #119 presented 7/27 @ 10:00-11:30am	Ja'Quan Battle† (Engineering)	Dharmendra Saraswat (Agriculture)
Poster #121 presented 7/27 @ 10:00-11:30am	Alaina Gartner† (Agriculture, Engineering)	Dennis Buckmaster (Agriculture)
Poster #125 presented 7/27 @ 10:00-11:30am	Ellarose Strasser† (Agriculture)	Dennis Buckmaster (Agriculture) Andrew Balmos (Engineering)
Poster #142 presented 7/27 @ 10:00-11:30am	Valentina Aguirre Garrido† (Universidad de los Andes)	Barrett Caldwell (Engineering) Cassandra McCormack (Engineering)
Poster #144 presented 7/27 @ 10:00-11:30am	Karla Alvarado† (Engineering) Jinyang Du‡ (Engineering)	Luis Solorio (Engineering) Siting Zhang (Engineering) Claudia Benito Alston (Engineering)
Poster #148 presented 7/27 @ 10:00-11:30am	Sachi Barnaby† (University of New Mexico)	Philip Paré (Engineering) Brooks Butler (Engineering)
Poster #149 presented 7/27 @ 10:00-11:30am	Amina Basharat† (Engineering)	Tamara Kinzer-Ursem (Engineering) Agnes Doszpoly (Engineering)
Poster #151 presented 7/27 @ 10:00-11:30am	Gavin Bidna† (Engineering)	Arun Mannodi Kanakkithodi (Engineering) Habibur Rahman (Engineering) Jiaqi Yang (Engineering)
Poster #152 presented 7/27 @ 10:00-11:30am	Harrison Booker† (Engineering) Aditya Anhiba‡ (Engineering) Ansh Mishra* (Georgia Institute of Technology) Sumaira Khan* (Habib University) Yuto Tanaka* (Engineering)	Ran Dai (Engineering)
Poster #154 presented 7/27 @ 10:00-11:30am	Lorenzo Cacciapuoti† (Engineering)	Krishna Jayant (Engineering) Hammad Khan (Engineering) Shulan Xiao (Engineering)
Poster #155 presented 7/27 @ 10:00-11:30am	Brandon Camp† (Engineering)	Matthew Krane (Engineering) Kevin Trumble (Engineering)
Poster #156 presented 7/27 @ 10:00-11:30am	Chevaugn Campbell† (Kenyon College)	Jeffrey Youngblood (Engineering) Carlos Martinez (Engineering) Ronaldo Franjul (Engineering) Elizabeth Malek (Engineering)
Poster #157 presented 7/27 @ 10:00-11:30am	Malina-Elena Cantemir† (Grinnell College)	Lia Stanciu (Engineering) Abbey Koneru (Engineering)
Poster #158 presented 7/27 @ 10:00-11:30am	Chijhi Chang† (Engineering)	Robert Loweth (Engineering)

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Presentation	Students	Mentors
Poster #159 presented 7/27 @ 10:00-11:30am	Hyunwoo Cho† (Engineering)	Antonio Bobet (Engineering) Juan Jimenez (Engineering)
Poster #161 presented 7/27 @ 10:00-11:30am	Adam Covert† (University of New Mexico)	Brandon Pitts (Engineering) Maya Luster (Engineering)
Poster #162 presented 7/27 @ 10:00-11:30am	Mitchell Cox† (Engineering)	Paul Mort (Engineering) Kendra Erk (Engineering) Kayli Henry (Engineering)
Poster #164 presented 7/27 @ 10:00-11:30am	An Dang† (University of Maryland, Baltimore County) Ishika Jindal‡ (Engineering)	Brandon Boor (Engineering) Nusrat Jung (Engineering) Satya Patra (Engineering)
Poster #166 presented 7/27 @ 10:00-11:30am	Autumn Denny† (Engineering)	Ankita Raturi (Engineering) Juliet Norton (Agriculture) Steven Doyle (Engineering)
Poster #167 presented 7/27 @ 10:00-11:30am	Jinyang (Jessie) Du† (Engineering) Karla Alvarado‡ (Engineering)	Luis Solorio (Engineering) Claudia Alston (Engineering) Siting Zhang (Engineering)
Poster #168 presented 7/27 @ 10:00-11:30am	Jorge Duarte† (New Jersey Institute of Technology)	Nadia Gkritza (Engineering) Ricardo Chahine (Engineering) Prasanna Humagain (Engineering)
Poster #176 presented 7/27 @ 10:00-11:30am	Peter Hayst† (Engineering)	Lance Parson (Engineering) Morgan Broberg (Engineering) Lisa Choe (Purdue University) Amit Varma (Engineering)
Poster #178 presented 7/27 @ 10:00-11:30am	Jack Herremat† (Engineering)	Janelle Wharry (Engineering) Grayson Nemets (Engineering) Elliot Marrero Jackson (Engineering)
Poster #182 presented 7/27 @ 10:00-11:30am	Jonathan Ibinson† (The Ohio State University)	Vitaliy Rayz (Engineering) Mohammadreza Balouchestani Asl (Engineering) Neal Patel (Engineering)
Poster #183 presented 7/27 @ 10:00-11:30am	Ambrosia Ingoglia† (Engineering)	Brandon Pitts (Engineering) Maya Luster (Engineering)
Poster #185 presented 7/27 @ 10:00-11:30am	Smit Kapadia† (Engineering) Nikolai Baranov* (Engineering)	Li Qiao (Engineering) Holman Lau (Engineering)
Poster #188 presented 7/27 @ 10:00-11:30am	Sumaira Khan† (Engineering) Aditya Arjun Anibha‡ (Engineering)	Ran Dai (Engineering)
Poster #191 presented 7/27 @ 10:00-11:30am	Breana Lavallee† (North Carolina State University)	Melba Crawford (Engineering) Ana Morales Ona (Agriculture) Daniel Quinn (Agriculture)
Poster #194 presented 7/27 @ 10:00-11:30am	Rashmika Manipati† (Engineering)	Nusrat Jung (Engineering) Brandon Boor (Engineering) Jordan Cross (Engineering)
Poster #203 presented 7/27 @ 10:00-11:30am	Douglas Nyberg† (University of Montana) Matthew Beecher‡ (New Mexico Tech)	Neera Jain (Engineering)
Poster #204 presented 7/27 @ 10:00-11:30am	Gerald Obuseh† (Truman State University)	Denny Yu (Engineering) Guoyang Zhou (Engineering)
Poster #207 presented 7/27 @ 10:00-11:30am	Laurel Patterson† (Western Kentucky University)	Tae Yoon Kim (Engineering) Jeffery Coulter (Engineering) Donghyun Yim (Engineering)
Poster #210 presented 7/27 @ 10:00-11:30am	Heiner A. Quintero† (Engineering)	Fang Huang (Engineering) Yilun Li (Engineering)
Poster #211 presented 7/27 @ 10:00-11:30am	Graham Ragland† (Engineering)	Deva Chan (Engineering) Rahaf Salim (Education) Cameron Villarreal (Engineering)

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Presentation	Students	Mentors
Poster #213 presented 7/27 @ 10:00-11:30am	Tyler Ramsey† (Engineering)	Justin Hess (Engineering) Andrew Gray (Engineering)
Poster #214 presented 7/27 @ 10:00-11:30am	Lainie Rapp† (Engineering)	Maggie Perlman (Engineering) Joshua Harmon (Engineering) Lisa Choe (Engineering) Amit Varma (Engineering)
Poster #218 presented 7/27 @ 10:00-11:30am	Claire Russell† (Engineering)	Michael Titus (Engineering) Kenneth Sandhage (Engineering) Akhil Bejjipurapu (Engineering)
Poster #219 presented 7/27 @ 10:00-11:30am	Jefte Santiago† (Engineering)	James Goppert (Engineering) Worawis Sribunma (Engineering) Jaehyeok Kim (Engineering)
Poster #222 presented 7/27 @ 10:00-11:30am	Samuel Spears† (Engineering)	Pritee Pahari (Engineering) Pritee Pahari (Engineering)
Poster #224 presented 7/27 @ 10:00-11:30am	Priyadarshini Subramaniam† (Engineering) Shayak Chatterjee* (Engineering)	Steve Wereley (Engineering) Pranshul Sardana (Engineering) Hui Ma (Engineering) Zhengwei Chen (Engineering) Jacqueline Linnes (Engineering)
Poster #226 presented 7/27 @ 10:00-11:30am	Stefanie Surdyka† (Engineering)	Paula Coelho (Engineering) Paula Coelho (Engineering)
Poster #228 presented 7/27 @ 10:00-11:30am	Hareem Tariq† (Engineering)	Tamara Kinzer-Ursem (Engineering) Agnes Doszpoly (Engineering)
Poster #229 presented 7/27 @ 10:00-11:30am	William Townsend† (Engineering) Madelyn Whitaker‡ (Engineering) Alex Mate‡ (Engineering)	Caitlin Proctor (Agriculture) Emily Spicuzza (Engineering)
Poster #230 presented 7/27 @ 10:00-11:30am	Ryan Toy† (Engineering)	Denny Yu (Engineering) Marian Obuseh (Engineering) Nicholas Anton (Indiana University)
Poster #233 presented 7/27 @ 10:00-11:30am	Nicolas Vivas Rincon† (Engineering)	Ana Estrada Gomez (Engineering) Manni Zhang (Engineering)
Poster #234 presented 7/27 @ 10:00-11:30am	Liam West† (Engineering) Nicholas Babusis‡ (Engineering)	Alexey Shashurin (Engineering) Lee Organski (Engineering)
Poster #237 presented 7/27 @ 10:00-11:30am	Rachel Zheng† (Agriculture, Engineering)	Kurt Ristroph (Agriculture)
Poster #241 presented 7/27 @ 10:00-11:30am	Samuel Hyde† (Engineering)	Rahim Rahimi (Engineering) Sina Nejadi (Engineering)
Poster #243 presented 7/27 @ 10:00-11:30am	Siya Sharma† (Engineering)	Jim Ogg (Purdue University) Aarom Ault (Engineering)
Poster #309 presented 7/27 @ 1:00-2:30pm	Alex Mate† (Engineering) Madelyn Whitaker‡ (Engineering) William Townsend‡ (Engineering) Emily Spicuzza‡ (Agriculture)	Caitlin Proctor (Agriculture)
Poster #310 presented 7/27 @ 1:00-2:30pm	Jhon Brandol Munoz Romero† (Engineering)	Gabriel Aguirre Cruz (Engineering) Lia Stanciu (Engineering)
Poster #315 presented 7/27 @ 1:00-2:30pm	Zhujin Xia† (Agriculture, Engineering)	Mike Ladisch (Engineering) Fernanda da Cunha (Engineering) Diana Ramirez Gutierrez (Engineering) Xueli Chen (Engineering)
Poster #318 presented 7/27 @ 1:00-2:30pm	Ricardo Andrés Calvo Méndez† (Universidad Nacional de Colombia) Parth Doshi* (Engineering) Kyle Alexander Robinson* (Engineering)	James Davis (Engineering) Paschal Chukwuebuk Amusuo (Engineering)

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Presentation	Students	Mentors
Poster #320 presented 7/27 @ 1:00-2:30pm	Alison Mesa† (Engineering)	Rakesh Agrawal (Engineering) Shubhanshu Agarwal (Engineering)
Poster #326 presented 7/27 @ 1:00-2:30pm	Petra Schwaab† (Engineering)	Melba Crawford (Engineering) Cary Troy (Engineering) Keith Cherkauer (Engineering) Zhi Zhou (Engineering) Sheng Tan (Engineering)
Poster #329 presented 7/27 @ 1:00-2:30pm	Xihui Zhao† (Engineering)	Chongli Yuan (Engineering) Shichen Wu (Engineering)
Poster #330 presented 7/27 @ 1:00-2:30pm	Ellison Zhu† (Engineering) Dongting Cai‡ (Engineering)	Rebecca Ciez (Engineering) Meenakshi Narayanaswami (Engineering) Ivan Arturo Nunez (Engineering)
Poster #358 presented 7/27 @ 1:00-2:30pm	Javier Joel Diaz Laboy† (University of Puerto Rico at Ponce)	Fang Huang (Engineering) Cheng Bi (Engineering)
Poster #363 presented 7/27 @ 1:00-2:30pm	Marcelo Inaki Guerrero Montalvan† (Agriculture)	Steve Lindemann (Agriculture) Miguel Alvarez (Engineering)
Poster #364 presented 7/27 @ 1:00-2:30pm	Avi Amalanshu† (Engineering)	David Inouye (Engineering)
Poster #365 presented 7/27 @ 1:00-2:30pm	Valentina Andrade Pérez† (Engineering)	Xiaoping Bao (Engineering) Yun Chang (Engineering) Jingqiao Shen (Engineering)
Poster #366 presented 7/27 @ 1:00-2:30pm	Kathryn Ault† (Engineering)	Linda Wang (Engineering) Cagri Un (Engineering) Clayton Gentilcore (Engineering)
Poster #368 presented 7/27 @ 1:00-2:30pm	Matthew Beecher† (New Mexico Institute of Mining and Technology) Douglas Nyberg‡ (University of Montana)	Neera Jain (Engineering)
Poster #369 presented 7/27 @ 1:00-2:30pm	Dongting Cai† (University of Minnesota, Morris) Ellison Zhu‡ (Engineering)	Rebecca Ciez (Engineering) Meenakshi Narayanaswami (Engineering) Ivan Arturo Nunez (Engineering)
Poster #370 presented 7/27 @ 1:00-2:30pm	Alan Chen† (Santa Clara University)	David Cappelleri (Engineering) Aarya Deb (Engineering) Kitae Kim (Engineering)
Poster #371 presented 7/27 @ 1:00-2:30pm	Conor Costello† (Engineering)	Steve Son (Engineering) Thomas Hafner (Engineering)
Poster #372 presented 7/27 @ 1:00-2:30pm	Hyungjun Doh† (Engineering)	Karthik Ramani (Engineering) Rahul Jain (Engineering) Jingyu Shi (Engineering)
Poster #373 presented 7/27 @ 1:00-2:30pm	Connor Durkin† (Grinnell College)	James Krogmeier (Engineering) Sneha Jha (Engineering)
Poster #374 presented 7/27 @ 1:00-2:30pm	Newt Fey† (Engineering)	James Gibert (Engineering) Xinhao Quan (Engineering)
Poster #375 presented 7/27 @ 1:00-2:30pm	Evan Frishholz† (Engineering) Donovan Simonton‡ (Engineering) William Appel* (Engineering) Morgan Smith* (Engineering)	Yi Xie (Engineering)
Poster #376 presented 7/27 @ 1:00-2:30pm	Emmanuel Gichaba† (Engineering)	Adrian Buganza-Tepole (Engineering) Elsje Pienaar (Engineering) Norma Perez-Rosas (Engineering)
Poster #378 presented 7/27 @ 1:00-2:30pm	Bora Haller† (Engineering)	Carlo Scalo (Engineering) Forrest Lim (Purdue University) Vaibhav (Havi) Rajora (Engineering)
Poster #379 presented 7/27 @ 1:00-2:30pm	Tejaswini Haraniya† (Engineering)	Letian Dou (Engineering) Qixuan Hu (Engineering)

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Presentation	Students	Mentors
Poster #380 presented 7/27 @ 1:00-2:30pm	Sahda Haroon† (Engineering)	David Warsinger (Engineering) Xavier Morgan-Lange (Engineering)
Poster #382 presented 7/27 @ 1:00-2:30pm	Connie Kang† (Engineering)	David Inouye (Engineering) Surojit Ganguli (Engineering)
Poster #383 presented 7/27 @ 1:00-2:30pm	Nachiketh Karthik† (Engineering)	Karthik Ramani (Engineering) Runlin Duan (Engineering)
Poster #384 presented 7/27 @ 1:00-2:30pm	Kashif Khan† (University of Kansas)	Vivek Narsimhan (Engineering) George Curtis (Engineering)
Poster #385 presented 7/27 @ 1:00-2:30pm	Ohik Kwon† (Iowa State University)	Tiwei Wei (Engineering) Shuhang Lyu (Engineering)
Poster #386 presented 7/27 @ 1:00-2:30pm	Tim Lane† (Engineering) Donovan Simonton* (Engineering) Andrew Bergeon* (Engineering)	Shripad Revankar (Engineering) Derek Kultgen (Engineering)
Poster #387 presented 7/27 @ 1:00-2:30pm	Qingyuan Li† (Engineering)	Milind Kulkarni (Engineering) Vidush Singhal (Engineering)
Poster #388 presented 7/27 @ 1:00-2:30pm	Darren Lie† (Engineering) Maxwell Bolt* (Engineering) Andrew Showalter* (Engineering)	David Warsinger (Engineering) Sandra Cordoba (Engineering)
Poster #389 presented 7/27 @ 1:00-2:30pm	Josephine Lesley Liebrata† (Engineering)	Michael Harris (Engineering) Che-yu Chou (Engineering)
Poster #390 presented 7/27 @ 1:00-2:30pm	Andrew Lykken† (Engineering)	Mark Johnson (Engineering) Cole Nelson (Engineering)
Poster #391 presented 7/27 @ 1:00-2:30pm	Jalen Magee† (Savannah State University)	Ivan Christov (Engineering) Pranay Nagrani (Engineering) Shrihari Pande (Engineering)
Poster #392 presented 7/27 @ 1:00-2:30pm	Christine Mayo† (Engineering)	Alina Alexeenko (Engineering) Petr Kazarin (Engineering) Andrew Strongrich (Engineering)
Poster #393 presented 7/27 @ 1:00-2:30pm	Dhruv Mendpara† (Engineering) Jayden Pierce* (Engineering)	Rex Reklaitis (Engineering) Yan-Shu Huang (Engineering) Marcial Gonzalez (Engineering) Zoltan Nagy (Engineering)
Poster #394 presented 7/27 @ 1:00-2:30pm	Nodebechukwu Mgbodille† (Engineering)	Bryan Boudouris (Engineering) Dharini Varadharajan (Engineering) Letian Dou (Engineering)
Poster #395 presented 7/27 @ 1:00-2:30pm	Nathan Miles† (Engineering)	Glynn Gallaway (Engineering)
Poster #396 presented 7/27 @ 1:00-2:30pm	Ansh Mishra† (Engineering)	David Warsinger (Engineering) Jinwoo Oh (Engineering) Setareh Heidari (Engineering)
Poster #397 presented 7/27 @ 1:00-2:30pm	Lukas Peng† (Engineering)	Bryan Boudouris (Engineering) Hyunki Yeo (Engineering)
Poster #399 presented 7/27 @ 1:00-2:30pm	Khoi Pham† (Engineering) Alina Stuleanu‡ (Engineering)	Alexander Kildishev (Engineering) Samuel Peana (Engineering) Vladimir Shalaev (Engineering)
Poster #401 presented 7/27 @ 1:00-2:30pm	Hithesh Rai Purushothama† (Arizona State University)	Letian Dou (Engineering) Ke Ma (Engineering) Jiaonan Sun (Engineering)
Poster #402 presented 7/27 @ 1:00-2:30pm	Amritanshu Ranjan† (Engineering)	David Inouye (Engineering) Surojit Ganguli (Engineering)
Poster #403 presented 7/27 @ 1:00-2:30pm	Rodrigo Romero† (Engineering)	Dezhi Wang (Engineering) Luis Gomez (Engineering)

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Presentation	Students	Mentors
Poster #404 presented 7/27 @ 1:00-2:30pm	Luke Sanders† (Savannah State University)	Ivan Christov (Engineering) Shrihari Pande (Engineering) Pranay Nagrani (Engineering)
Poster #407 presented 7/27 @ 1:00-2:30pm	Michael Solmos† (Engineering)	Hany Abdel-Khalik (Engineering) Arvind Sundaram (Engineering)
Poster #409 presented 7/27 @ 1:00-2:30pm	Ashwin Sreedhar† (Engineering) David Fall‡ (Engineering) Nikhil Pisolkar‡ (Engineering)	Hany Abdel-Khalik (Engineering) Arvind Sundaram (Engineering)
Poster #410 presented 7/27 @ 1:00-2:30pm	Sreevickrant Sreekanth† (Engineering) Dulani Wijayarathne‡ (Engineering)	Milind Kulkarni (Engineering) Raghav Malik (Engineering)
Poster #412 presented 7/27 @ 1:00-2:30pm	Brooklin Toombs† (Engineering)	Amy Reibman (Engineering)
Poster #413 presented 7/27 @ 1:00-2:30pm	Nathon Tubbs† (Engineering)	Airehenbuwa Blessing (Birck Nanotechnology Center)
Poster #414 presented 7/27 @ 1:00-2:30pm	Amanda Walenciak† (University of Central Florida)	Luis Gomez (Engineering) David Czerwonky (Engineering)
Poster #416 presented 7/27 @ 1:00-2:30pm	Benjamin Wassgren† (Engineering)	Xianfan Xu (Engineering) Yikang Chen (Engineering)
Poster #417 presented 7/27 @ 1:00-2:30pm	Dulani Wijayarathne† (Engineering) Sreevickrant Sreekanth† (Engineering)	Milind Kulkarni (Engineering) Raghav Mailk (Engineering)
Poster #418 presented 7/27 @ 1:00-2:30pm	Chloe Yodert† (Engineering)	Hany Abdel-Khalik (Engineering) Arvind Sundaram (Engineering) Tyler Lewis (Engineering)
Poster #419 presented 7/27 @ 1:00-2:30pm	Lijun Zhu† (Engineering)	Ziyi Liu (Engineering)
Poster #420 presented 7/27 @ 1:00-2:30pm	Camden Bettag† (Engineering)	Jeffrey Greeley (Engineering) Luke Pretzie (Engineering) Anik Biswas (Engineering)
Poster #421 presented 7/27 @ 1:00-2:30pm	Jackson Boodry† (Johns Hopkins University) Mahagani Lasciers‡ (North Carolina A&T University)	Raj Gounder (Engineering) Angel Santiago-Colon (Engineering) Justin Rosa-Rojas (Engineering)
Poster #422 presented 7/27 @ 1:00-2:30pm	Carson Felton† (Engineering)	Can Li (Engineering) Kaiyu Cao (Engineering) Asha Ramanujam (Engineering)
Poster #423 presented 7/27 @ 1:00-2:30pm	Kyla Fung† (Engineering)	Raj Gounder (Engineering) Diamarys salome rivera (Engineering) Ricem Diaz Arroyo (Engineering)
Poster #424 presented 7/27 @ 1:00-2:30pm	Rebecca Hurwitz† (Vanderbilt University) Hallie Todd‡ (Pennsylvania State University) Logan Maddox‡ (Milwaukee School of Engineering) Alexa Earle* (Engineering)	Brian Tackett (Engineering) Ashutosh Bhadouria (Engineering)
Poster #426 presented 7/27 @ 1:00-2:30pm	Cora Powell† (Engineering)	Jeffery Miller (Engineering) Ted Kim (Engineering) Wei-Ling Huang (Engineering) Hamta Bardool (Engineering) Shan Jiang (Engineering)
Poster #427 presented 7/27 @ 1:00-2:30pm	Lavinia Barker† (Rice University)	Tiwei Wei (Engineering) Shuhang Lyu (Engineering) Keyu Wang
Poster #428 presented 7/27 @ 1:00-2:30pm	Antariksh Krishnan† (Engineering)	Tiwei Wei (Engineering) Keyu Wang (Engineering) Shuhang Lyu (Engineering)

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Presentation	Students	Mentors
Poster #430 presented 7/27 @ 1:00-2:30pm	Andrew Modint [†] (Engineering)	Tiwei Wei (Engineering) Shuhang Lyu (Engineering) Keyu Wang (Engineering)
Poster #431 presented 7/27 @ 1:00-2:30pm	Kyle Wiegand [†] (Engineering)	Shubhra Bansal (Engineering)
Poster #432 presented 7/27 @ 1:00-2:30pm	Elliot Wong [†] (Engineering)	Peter Bermel (Engineering) Allen Garner (Engineering) Sayan Roy (Engineering)
Poster #436 presented 7/27 @ 1:00-2:30pm	Zeyad Aljaali [†] (Engineering)	Aravind Machiry (Engineering)
Poster #440 presented 7/27 @ 1:00-2:30pm	Benjamin Zout [†] (Engineering) Steven Huang [†] (Engineering) Niels Van Ritbergen* (Engineering) Rauf Erkiletlioglu* (Engineering) Ferati Ogunwemimo* (Engineering) Dila Bodur* (Engineering)	Mark Johnson (Engineering)
Research Talk #504 presented 7/27 @ 9:20am	Daniel Santamaria [†] (Graduate)	Akanshu Sharma (Engineering) Deepak Suthar (Engineering)
Research Talk #507 presented 7/27 @ 9:20am	Aline Krugert [†] (Drew University)	Letian Dou (Engineering) Jiaonan Sun (Engineering)
Research Talk #509 presented 7/27 @ 9:00am	Parth Doshi [†] (Engineering) Ricardo Andres Calvome Mendez‡ (Engineering) Kyle Robinson‡ (Engineering)	James Davis (Engineering) Paschal Amusuo (Engineering)
Research Talk #511 presented 7/27 @ 9:40am	Adam Piaseczny [†] (Engineering)	Christopher Brinton (Engineering) Rohit Parasnis (Engineering)
Research Talk #512 presented 7/27 @ 9:00am	Seyed Kiarash Mossalaei [†] (Engineering)	Jim Braun (Engineering) Parveen Dhillion (Engineering) Do Hyeon Kim (Engineering) Jie Ma (Engineering) W. Travis Horton (Engineering)
Research Talk #514 presented 7/27 @ 9:40am	Rohit Jammula [†] (Engineering)	Xianfan Xu (Engineering) Jason Johnson (Engineering)
Research Talk #515 presented 7/27 @ 10:00am	Anya Emerson [†] (Engineering)	Jake Hosen (Agriculture) Zaven Arra (River Restoration Intelligence and Verification Organization (RRIV)) Ken Chong (Agriculture)
Research Talk #519 presented 7/27 @ 10:20am	Molly Dye [†] (Engineering)	Bradley Duerstock (Engineering) Zada Anderson (Engineering) Mitch Sanchez (Engineering) Thomas Everett (Indiana University)
Research Talk #521 presented 7/27 @ 10:00am	Matthew C. Geronat [†] (Rose-Hulman Institute of Technology) Emmanuel Ortiz‡ (University of Delaware)	Jeffrey Miller (Engineering) Ted Taewook Kim (Engineering)
Research Talk #522 presented 7/27 @ 10:20am	Adam Georgopoulos [†] (Engineering)	Rex Reklaitis (Engineering) Rexonni Lagare (Engineering)
Research Talk #523 presented 7/27 @ 10:40am	Hannah Oberg [†] (Engineering)	Brian Tackett (Engineering) Joseph Heil (Engineering)
Research Talk #524 presented 7/27 @ 10:00am	ILo Chen [†] (Engineering)	Qi Guo (Engineering)
Research Talk #526 presented 7/27 @ 10:40am	Guo Yu [†] (Engineering)	Qi Guo (Engineering) Charles Brookshire (Engineering)
Research Talk #527 presented 7/27 @ 10:00am	Joel Laudo [†] (Engineering)	Adrian Buganza Tepole (Engineering) Tina Han (Engineering)

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Presentation	Students	Mentors
Research Talk #528 presented 7/27 @ 10:20am	Alvaro Miguel† (Engineering)	Partha Mukherjee (Engineering) Abhinand Ayyaswamy (Engineering) Bairav Vishnugopi (Engineering)
Research Talk #532 presented 7/27 @ 11:40am	William Retnarajt† (Indian Institute of Technology Kharagpur)	Philip Paré (Engineering)
Research Talk #536 presented 7/27 @ 11:00am	Alina Stuleanu† (Engineering) Viet Khoi Pham Khac‡ (Engineering)	Vladimir Shalaev (Engineering) Samuel Peana (Engineering)
Research Talk #537 presented 7/27 @ 11:20am	Shayak Chatterjee† (Engineering)	Steve Wereley (Engineering) Pranshul Sardana (Engineering) Zhengwei Chen (Engineering)
Research Talk #538 presented 7/27 @ 11:40am	Christina Lumppt† (Engineering)	Monique McClain (Engineering) James Plotzke (Engineering)
Research Talk #541 presented 7/27 @ 11:40am	Luke Fortner† (Engineering)	Muhammad Alam (Engineering) Md. Asaduz Zaman Mamun (Engineering)
Research Talk #542 presented 7/27 @ 11:00am	Justin Rodriguez† (Engineering) Jalal Ahmad Farooka* (Engineering)	Alex Chortos (Engineering) Jue Wang (Engineering) Mina Lee (Engineering)
Research Talk #543 presented 7/27 @ 11:20am	Seungbin Kwon† (Engineering)	Andres F. Arrieta (Engineering) Katherine S. Riley (Engineering) Laura Alvarez (Engineering) Adrian Buganza Tepole (Engineering) Craig Goergen (Engineering)
Research Talk #545 presented 7/27 @ 12:00pm	William Bush† (Engineering)	Thomas Siegmund (Engineering) Elizabeth Montagnino (Engineering) John Howarter (Engineering)
Research Talk #552 presented 7/27 @ 1:20pm	Nikolai Baranov† (Engineering) Smit Kapadia* (Engineering)	Li Qiao (Engineering) Holman Lau (Engineering)
Research Talk #553 presented 7/27 @ 1:40pm	Nicholas Buffo† (Engineering)	Deva Chan (Engineering)
Research Talk #554 presented 7/27 @ 1:40pm	Skyler Campbell† (Duke University)	Mohit Verma (Agriculture) Jiangshan Wang (Engineering) Bibek Raut (Engineering)
Research Talk #555 presented 7/27 @ 1:40pm	Jingqing Liu† (Engineering)	Antonio Bobet (Engineering) Juan Jimenez (Engineering)
Research Talk #560 presented 7/27 @ 2:00pm	David Botana† (Northwestern University) Shaiv Mehra* (Engineering)	Bradley Duerstock (Engineering) Mitchell Sanchez (Engineering)
Research Talk #564 presented 7/27 @ 2:20pm	Mengting Xu† (Engineering)	Andy Tao (Agriculture) Marco Hadisurya (Agriculture)
Research Talk #566 presented 7/27 @ 2:00pm	Shreejit Poudyal† (Clarkson University)	Nadia Gkritza (Engineering) Prasanna Humagain (Engineering) Ricardo Chahine (Engineering)
Research Talk #567 presented 7/27 @ 2:20pm	Nestor Felipe Gonzalez Garcia† (Universidad de los Andes)	Sogand Hasanzadeh (Engineering) Woei-Chyi Chang (Engineering)
Research Talk #569 presented 7/27 @ 2:00pm	Matthew Boyd† (Engineering)	Tae Yoon Kim (Engineering) Md Foysal Rabbi (Engineering)
Research Talk #570 presented 7/27 @ 2:20pm	Charlotte Cleary† (Engineering)	Craig Goergen (Engineering) Elnaz Ghajar-Rahimi (Engineering)
Research Talk #571 presented 7/27 @ 2:40pm	Alyssa Richardst† (Engineering)	Craig Goergen (Engineering) Conner Earl (Engineering) Steven Welc (Indiana University) Larry Markham (Indiana University) Mark Kowala (Indiana Biosciences Research Institute)

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Presentation	Students	Mentors
Research Talk #581 presented 7/27 @ 3:00pm	Grayson Wittbrodt† (Engineering)	Brandon Boor (Engineering) Nusrat Jung (Engineering) Jinglin Jiang (Engineering) Xiaosu Ding (Engineering)
Research Talk #582 presented 7/27 @ 3:20pm	Aditya Arjun Anibha† (Engineering) Harrison Booker‡ (Engineering) Ansh Mishra* (Georgia Institute of Technology) Sumaira Khan* (Habib University) Yuto Tanaka* (Engineering)	Ran Dai (Engineering)
Research Talk #583 presented 7/27 @ 3:40pm	Joseph Meiert† (Engineering)	Tyler Tallman (Engineering) Julio Hernandez (Engineering)
Research Talk #584 presented 7/27 @ 3:00pm	Jarrett Fowler† (Texas A&M University)	Rachel Morrison (Engineering) Sherry Harbin (Engineering)
Research Talk #585 presented 7/27 @ 3:20pm	Leia Schiltz† (Engineering)	Taimoor Qazi (Engineering)
Research Talk #589 presented 7/27 @ 4:40pm	Bharath Anand†	Sarada Krithivasan (Engineering) Michael Lee (Massachusetts Institute of Technology)
Research Talk #595 presented 7/27 @ 4:40pm	Diya Sakhrani† (Engineering)	Craig Goergen (Engineering) Elnaz Ghajar-Rahimi (Engineering)
Research Talk #598 presented 7/27 @ 4:40pm	Hevi (Tash) Medde-Witaget† (Engineering)	Carol Handwerker (Engineering) John Blendell (Engineering) Hannah Fowler (Engineering) Lijia Xie (Engineering)
Research Talk #599 presented 7/27 @ 4:00pm	Nikki Kulkarni† (Engineering)	Taimoor Qazi (Engineering)
Research Talk #600 presented 7/27 @ 4:20pm	Shiv Shukla† (Engineering)	Tamara Kinzer-Ursem (Engineering) Barrett Davis (Engineering)
Research Talk #601 presented 7/27 @ 4:40pm	Ethan John† (University of Evansville)	Tamara Kinzer-Ursem (Engineering) Eugene Kim (Engineering)
Research Talk #710 presented 7/26-7/31 virtually	William Currey† (University of Texas at El Paso)	Adeeba Raheem (College of Engineering)
Research Talk #721 presented 7/26-7/31 virtually	Yunhao Lan† (Engineering)	Mark Johnson (Engineering) Cole Nelson (Engineering)