Summer 2023 Undergraduate Research Symposium: *SURF*

This list is inclusive of all presentations where, within the application, the student presenter indicated the specified program. Spelling of names 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 #142 presented 7/27 @ 10:00-11:30am	Valentina Aguirre Garrido†	Barrett Caldwell Cassandra McCormack
Poster #143 presented 7/27 @ 10:00-11:30am	Mustapha AL Hassan† Lev Titov‡	Sandro Matosevic Soumyajit Das Shambhavi Borde
Poster #144 presented 7/27 @ 10:00-11:30am	Karla Alvarado† Jinyang Du‡	Luis Solorio Siting Zhang Claudia Benito Alston
Poster #145 presented 7/27 @ 10:00-11:30am	Sarah Alvarez† Sajal Salim‡	Mike Reppert Jacob Hnatusko
Poster #146 presented 7/27 @ 10:00-11:30am	Umar Arshad†	Chen-Lung Hung
Poster #147 presented 7/27 @ 10:00-11:30am	David Arteaga†	Andrea Kasinski Zulaida Soto-Vargas Humna Hasan Ikjot Sohal
Poster #148 presented 7/27 @ 10:00-11:30am	Sachi Barnaby†	Philip Paré Brooks Butler
Poster #149 presented 7/27 @ 10:00-11:30am	Amina Basharat†	Tamara Kinzer-Ursem Agnes Doszpoly
Poster #150 presented 7/27 @ 10:00-11:30am	Mariana Benavides†	Severin Schneebeli Anthony Mena
Poster #151 presented 7/27 @ 10:00-11:30am	Gavin Bidna†	Arun Mannodi Kanakkithodi Habibur Rahman Jiaqi Yang
Poster #152 presented 7/27 @ 10:00-11:30am	Harrison Booker† Aditya Anhiba‡ Ansh Mishra* Sumaira Khan* Yuto Tanaka*	Ran Dai
Poster #153 presented 7/27 @ 10:00-11:30am	Aidan Brown†	Jonathan Wilker Aaron Mena
Poster #154 presented 7/27 @ 10:00-11:30am	Lorenzo Cacciapuoti†	Krishna Jayant Hammad Khan Shulan Xiao
Poster #155 presented 7/27 @ 10:00-11:30am	Brandon Camp†	Matthew Krane Kevin Trumble
Poster #156 presented 7/27 @ 10:00-11:30am	Chevaugn Campbell†	Jeffrey Youngblood Carlos Martinez Ronaldo Franjul Elizabeth Malek
Poster #157 presented 7/27 @ 10:00-11:30am	Malina-Elena Cantemir†	Lia Stanciu Abbey Koneru
Poster #158 presented 7/27 @ 10:00-11:30am	Chijhi Chang†	Robert Loweth

Presentation	Students	Mentors
Poster #159 presented 7/27 @ 10:00-11:30am	Hyunwoo Cho†	Antonio Bobet Juan Jimenez
Poster #160 presented 7/27 @ 10:00-11:30am	Nicholas Colvin†	Christina Li William Swann
Poster #161 presented 7/27 @ 10:00-11:30am	Adam Cover†	Brandon Pitts Maya Luster
Poster #162 presented 7/27 @ 10:00-11:30am	Mitchell Cox†	Paul Mort Kendra Erk Kayli Henry
Poster #163 presented 7/27 @ 10:00-11:30am	Fiona Crenshaw†	Bruno Roseguini Bohyun Ro
Poster #164 presented 7/27 @ 10:00-11:30am	An Dang† Ishika Jindal‡	Brandon Boor Nusrat Jung Satya Patra
Poster #165 presented 7/27 @ 10:00-11:30am	Aislinn Davis†	Daniel Suter Paola Vega Rodriguez
Poster #166 presented 7/27 @ 10:00-11:30am	Autumn Denny†	Ankita Raturi Juliet Norton Steven Doyle
Poster #167 presented 7/27 @ 10:00-11:30am	Jinyang (Jessie) Du† Karla Alvarado‡	Luis Solorio Claudia Alston Siting Zhang
Poster #168 presented 7/27 @ 10:00-11:30am	Jorge Duarte†	Nadia Gkritza Ricardo Chahine Prasanna Humagain
Poster #169 presented 7/27 @ 10:00-11:30am	Paige Edens†	Alexander Chubykin Sanghamitra Nareddula Michael Zimmerman
Poster #170 presented 7/27 @ 10:00-11:30am	David Flores†	Richard Voyles Upinder Kaur
Poster #171 presented 7/27 @ 10:00-11:30am	Madeline Frasure-Lauth†	Paula Coelho Gracie Fitzgerald Paula Belmont
Poster #172 presented 7/27 @ 10:00-11:30am	Paula Galindo Moreno†	Catherine Searle Jonathan Lopez
Poster #173 presented 7/27 @ 10:00-11:30am	Braden Garretson†	Dan Milisavljevic
Poster #174 presented 7/27 @ 10:00-11:30am	Mason Giacchetti† Sean Flanary* Karrick McGinty*	Andreas Jung Andrew Wildridge
Poster #175 presented 7/27 @ 10:00-11:30am	Gabriel Goodwin† Lauren Bell*	Arnab Banerjee Jhinkyu Choi
Poster #176 presented 7/27 @ 10:00-11:30am	Peter Hays†	Lance Parson Morgan Broberg Lisa Choe Amit Varma
Poster #177 presented 7/27 @ 10:00-11:30am	Elizabeth Hernandez Perez†	Stanton Gelvin Nana Liu Lan-Ying Lee
Poster #178 presented 7/27 @ 10:00-11:30am	Jack Herrema†	Janelle Wharry Grayson Nemets Elliot Marrero Jackson
Poster #179 presented 7/27 @ 10:00-11:30am	Emma Hoffman†	Julia Laskin Syeda Nazifa Wali

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Presentation	Students	Mentors
Poster #180 presented 7/27 @ 10:00-11:30am	Sophia Horn†	Maria Sepúlveda Anna Bushong Tyler Hoskins
Poster #181 presented 7/27 @ 10:00-11:30am	Jungeun Hwang† Son Ha†	Dharmendra Saraswat Varun Aggarwal Aanis Ahmad
Poster #182 presented 7/27 @ 10:00-11:30am	Jonathan Ibinson†	Vitaliy Rayz Mohammadreza Balouchestani Asl Neal Patel
Poster #183 presented 7/27 @ 10:00-11:30am	Ambrosia Ingoglia†	Brandon Pitts Maya Luster
Poster #184 presented 7/27 @ 10:00-11:30am	Shreya Ompreeti Ippili†	Lin Tan Jiang
Poster #185 presented 7/27 @ 10:00-11:30am	Smit Kapadia† Nikolai Baranov*	Li Qiao Holman Lau
Poster #186 presented 7/27 @ 10:00-11:30am	Ethan Kaser†	Anjali Iyer-Pascuzzi Abbie Rogers
Poster #187 presented 7/27 @ 10:00-11:30am	Faarza Khan†	Greg Michalski
Poster #188 presented 7/27 @ 10:00-11:30am	Sumaira Khan† Aditya Arjun Anibha‡	Ran Dai
Poster #189 presented 7/27 @ 10:00-11:30am	Carolina Kim†	GuangJun Zhang Ziyu Dong
Poster #190 presented 7/27 @ 10:00-11:30am	Kyung Min Ko†	Lin Tan Jiang
Poster #191 presented 7/27 @ 10:00-11:30am	Breana Lavallee†	Melba Crawford Ana Morales Ona Daniel Quinn
Poster #192 presented 7/27 @ 10:00-11:30am	Edwin Legall†	richard kuhn Jacqueline Anderson
Poster #193 presented 7/27 @ 10:00-11:30am	Andy Liu†	Kurt Ristroph
Poster #194 presented 7/27 @ 10:00-11:30am	Rashmika Manipati†	Nusrat Jung Brandon Boor Jordan Cross
Poster #195 presented 7/27 @ 10:00-11:30am	Manuel Francisco Martinez Motta†	Michelle Thompson Laura Chaves
Poster #196 presented 7/27 @ 10:00-11:30am	Kathryn McGregor†	Arielle Borovsky Amanda Yuile
Poster #197 presented 7/27 @ 10:00-11:30am	Jenna McLean†	Ranjie Xu Yanru Ji
Poster #198 presented 7/27 @ 10:00-11:30am	Alexander McQuade†	Lia Stanciu Amit Barui Sunil Vasu
Poster #199 presented 7/27 @ 10:00-11:30am	Zach Miles†	Ruichao Ma Sheng-Wen Huang Ramya Suresh Kevin Barrow Jian Liao
Poster #200 presented 7/27 @ 10:00-11:30am	Angus Moore†	Ala Eddin Douba Kendra Erk
Poster #201 presented 7/27 @ 10:00-11:30am	Kyle Mundy†	Majid Kazemian Luopin Wang

Presentation	Students	Mentors
Poster #202 presented 7/27 @ 10:00-11:30am	Erbol Nishanov†	GuangJun Zhang
Poster #203 presented 7/27 @ 10:00-11:30am	Douglas Nyberg† Matthew Beecher‡	Neera Jain
Poster #204 presented 7/27 @ 10:00-11:30am	Gerald Obuseh†	Denny Yu Guoyang Zhou
Poster #205 presented 7/27 @ 10:00-11:30am	Rio Ohtake†	Danzhou Yang Sarah Dagher Yichen Han
Poster #206 presented 7/27 @ 10:00-11:30am	Noor Owayni†	Betsy Parkinson Namuunzul Otgontseren Christina Martinez-Brokaw
Poster #207 presented 7/27 @ 10:00-11:30am	Laurel Patterson†	Tae Yoon Kim Jeffery Coulter Donghyun Yim
Poster #208 presented 7/27 @ 10:00-11:30am	Henry Peng† Ahn Nhu‡ Yuke Zhang‡	Lei Wang Valentina Castañeda
Poster #209 presented 7/27 @ 10:00-11:30am	Ethan Pinarski†	Kyoung-Soo Lee Vandana Ramakrishnan
Poster #210 presented 7/27 @ 10:00-11:30am	Heiner A. Quintero†	Fang Huang Yilun Li
Poster #211 presented 7/27 @ 10:00-11:30am	Graham Ragland†	Deva Chan Rahaf Salim Cameron Villarreal
Poster #212 presented 7/27 @ 10:00-11:30am	Yaisa Ramirez† Javier Castillo‡	Erneto Marinero Juan Carlos Verduzco Sebastian Calderon
Poster #213 presented 7/27 @ 10:00-11:30am	Tyler Ramsey†	Justin Hess Andrew Gray
Poster #214 presented 7/27 @ 10:00-11:30am	Lainie Rapp†	Maggie Perlman Joshua Harmon Lisa Choe Amit Varma
Poster #215 presented 7/27 @ 10:00-11:30am	Karlianie Rivera†	Qing Deng Shelly Tan
Poster #216 presented 7/27 @ 10:00-11:30am	Cristian D. Rosario-Marcano†	Chris Staiger Weiwei Zhang
Poster #217 presented 7/27 @ 10:00-11:30am	Ryan Rushing† Bianca Caminada‡ Eleazar Gonzalez*	Ken Ritchie
Poster #218 presented 7/27 @ 10:00-11:30am	Claire Russell†	Michael Titus Kenneth Sandhage Akhil Bejjipurapu
Poster #219 presented 7/27 @ 10:00-11:30am	Jefte Santiago†	James Goppert Worawis Sribunma Jaehyeok Kim
Poster #220 presented 7/27 @ 10:00-11:30am	Faith Scott†	Uma Aryal Rodrigo Mohallem
Poster #221 presented 7/27 @ 10:00-11:30am	Stuti Shah†	Martin Kruczenski Derek Ping Syeda Neha Zaidi
Poster #222 presented 7/27 @ 10:00-11:30am	Samuel Spears†	Pritee Pahari Pritee Pahari

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Presentation	Students	Mentors
Poster #223 presented 7/27 @ 10:00-11:30am	Grace Stanton†	David Porterfield Manisha Dagar Alexander Baena Marshall Tabetah
Poster #224 presented 7/27 @ 10:00-11:30am	Priyadarshini Subramaniam† Shayak Chatterjee*	Steve Wereley Pranshul Sardana Hui Ma Zhengwei Chen Jacqueline Linnes
Poster #225 presented 7/27 @ 10:00-11:30am	Kiran Sultana†	John Howarter Jeffrey Youngblood Geeta Pokhel
Poster #226 presented 7/27 @ 10:00-11:30am	Stefanie Surdyka†	Paula Coelho Paula Coelho
Poster #227 presented 7/27 @ 10:00-11:30am	Amani Talbert†	Deva Chan Janice Evans Aritra Chatterjee Dhulika Ravinuthala
Poster #228 presented 7/27 @ 10:00-11:30am	Hareem Tariq†	Tamara Kinzer-Ursem Agnes Doszpoly
Poster #229 presented 7/27 @ 10:00-11:30am	William Townsend† Madelyn Whitaker‡ Alex Mate‡	Caitlin Proctor Emily Spicuzza
Poster #230 presented 7/27 @ 10:00-11:30am	Ryan Toy†	Denny Yu Marian Obuseh Nicholas Anton
Poster #231 presented 7/27 @ 10:00-11:30am	Corin Tuinstra†	Joe Sinfield
Poster #232 presented 7/27 @ 10:00-11:30am	Hector Valenzuela†	Richard Voyles Upinder Kaur
Poster #233 presented 7/27 @ 10:00-11:30am	Nicolas Vivas Rincon†	Ana Estrada Gomez Manni Zhang
Poster #234 presented 7/27 @ 10:00-11:30am	Liam West† Nicholas Babusis‡	Alexey Shashurin Lee Organski
Poster #235 presented 7/27 @ 10:00-11:30am	Yichu Xu† Sydney Belk* Jackson Truitt*	Jeffrey Youngblood Michael Titus David Johnson Rodrigo Orta Guerra Lipi Roy
Poster #236 presented 7/27 @ 10:00-11:30am	Tongwei Zhang†	Denny yu Guoyang Zhou
Poster #237 presented 7/27 @ 10:00-11:30am	Rachel Zheng†	Kurt Ristroph
Poster #238 presented 7/27 @ 10:00-11:30am	Daniel Zou†	Severin T. Schneebeli Olav Vestrheim
Poster #239 presented 7/27 @ 10:00-11:30am	McKenna Clinch†	Christina Li Joanna Rosenberger
Poster #240 presented 7/27 @ 10:00-11:30am	Brendan Duffy† Rongkai Yu*	Ganesh Subbarayan Sean Lai Sukshitha Achar Carol Handwerker
Poster #241 presented 7/27 @ 10:00-11:30am	Samuel Hyde†	Rahim Rahimi Sina Nejati

Presentation	Students	Mentors
Poster #242 presented 7/27 @ 10:00-11:30am	Rongkai Yu† Brendan Duffy*	Ganesh Subbarayan Carol Handwerker Sean Lai Sukshitha Achar
Poster #364 presented 7/27 @ 1:00-2:30pm	Avi Amalanshu†	David Inouye
Poster #365 presented 7/27 @ 1:00-2:30pm	Valentina Andrade Pérez†	Xiaoping Bao Yun Chang Jingqiao Shen
Poster #366 presented 7/27 @ 1:00-2:30pm	Kathryn Ault†	Linda Wang Cagri Un Clayton Gentilcore
Poster #367 presented 7/27 @ 1:00-2:30pm	Eshaana Aurora†	Peter Bermel Geoffrey Sanchez Changkyun Lee
Poster #368 presented 7/27 @ 1:00-2:30pm	Matthew Beecher† Douglas Nyberg‡	Neera Jain
Poster #369 presented 7/27 @ 1:00-2:30pm	Dongting Cai† Ellison Zhu‡	Rebecca Ciez Meenakshi Narayanaswami Ivan Arturo Nunez
Poster #370 presented 7/27 @ 1:00-2:30pm	Alan Chen†	David Cappelleri Aarya Deb Kitae Kim
Poster #371 presented 7/27 @ 1:00-2:30pm	Conor Costello†	Steve Son Thomas Hafner
Poster #372 presented 7/27 @ 1:00-2:30pm	Hyungjun Doh†	Karthik Ramani Rahul Jain Jingyu Shi
Poster #373 presented 7/27 @ 1:00-2:30pm	Connor Durkin†	James Krogmeier Sneha Jha
Poster #374 presented 7/27 @ 1:00-2:30pm	Newt Fey†	James Gibert Xinhao Quan
Poster #375 presented 7/27 @ 1:00-2:30pm	Evan Frishholz† Donovan Simonton‡ William Appel* Morgan Smith*	Yi Xie
Poster #376 presented 7/27 @ 1:00-2:30pm	Emmanuel Gichaba†	Adrian Buganza-Tepole Elsje Pienaar Norma Perez-Rosas
Poster #377 presented 7/27 @ 1:00-2:30pm	Samuel Greenaway†	Yi Xie
Poster #378 presented 7/27 @ 1:00-2:30pm	Bora Haller†	Carlo Scalo Forrest Lim Vaibhav (Havi) Rajora
Poster #379 presented 7/27 @ 1:00-2:30pm	Tejaswini Haraniya†	Letian Dou Qixuan Hu
Poster #380 presented 7/27 @ 1:00-2:30pm	Sahda Haroon†	David Warsinger Xavier Morgan-Lange
Poster #381 presented 7/27 @ 1:00-2:30pm	Ian Holda†	Kevin Webb Christopher Lacny
Poster #382 presented 7/27 @ 1:00-2:30pm	Connie Kang†	David Inouye Surojit Ganguli
Poster #383 presented 7/27 @ 1:00-2:30pm	Nachiketh Karthik†	Karthik Ramani Runlin Duan

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

Presentation	Students	Mentors
Poster #384 presented 7/27 @ 1:00-2:30pm	Kashif Khan†	Vivek Narsimhan George Curtis
Poster #385 presented 7/27 @ 1:00-2:30pm	Ohik Kwon†	Tiwei Wei Shuhang Lyu
Poster #386 presented 7/27 @ 1:00-2:30pm	Tim Lane† Donovan Simonton* Andrew Bergeon*	Shripad Revankar Derek Kultgen
Poster #387 presented 7/27 @ 1:00-2:30pm	Qingyuan Li†	Milind Kulkarni Vidush Singhal
Poster #388 presented 7/27 @ 1:00-2:30pm	Darren Lie† Maxwell Bolt* Andrew Showalter*	David Warsinger Sandra Cordoba
Poster #389 presented 7/27 @ 1:00-2:30pm	Josephine Lesley Liebrata†	Michael Harris Che-yu Chou
Poster #390 presented 7/27 @ 1:00-2:30pm	Andrew Lykken†	Mark Johnson Cole Nelson
Poster #391 presented 7/27 @ 1:00-2:30pm	Jalen Magee†	Ivan Christov Pranay Nagrani Shrihari Pande
Poster #392 presented 7/27 @ 1:00-2:30pm	Christine Mayo†	Alina Alexeenko Petr Kazarin Andrew Strongrich
Poster #393 presented 7/27 @ 1:00-2:30pm	Dhruv Mendpara† Jayden Pierce*	Rex Reklaitis Yan-Shu Huang Marcial Gonzalez Zoltan Nagy
Poster #394 presented 7/27 @ 1:00-2:30pm	Nodebechukwu Mgbodille†	Bryan Boudouris Dharini Varadharajan Letian Dou
Poster #395 presented 7/27 @ 1:00-2:30pm	Nathan Miles†	Glynn Gallaway
Poster #396 presented 7/27 @ 1:00-2:30pm	Ansh Mishra†	David Warsinger Jinwoo Oh Setareh Heidari
Poster #397 presented 7/27 @ 1:00-2:30pm	Lukas Peng†	Bryan Boudouris Hyunki Yeo
Poster #398 presented 7/27 @ 1:00-2:30pm	Nathan Petrucci†	Xiaoping Bao Yun Chang Jingqiao Shen
Poster #399 presented 7/27 @ 1:00-2:30pm	Khoi Pham† Alina Stuleanu‡	Alexander Kildishev Samuel Peana Vladimir Shalaev
Poster #400 presented 7/27 @ 1:00-2:30pm	Bao Quoc Phan† Alex Wang‡	Neera Jain Michael Williamson Tabango Sibibalan Jeevanandam
Poster #401 presented 7/27 @ 1:00-2:30pm	Hithesh Rai Purushothama†	Letian Dou Ke Ma Jiaonan Sun
Poster #402 presented 7/27 @ 1:00-2:30pm	Amritanshu Ranjan†	David Inouye Surojit Ganguli
Poster #403 presented 7/27 @ 1:00-2:30pm	Rodrigo Romero†	Dezhi Wang Luis Gomez

Presentation	Students	Mentors
Poster #404 presented 7/27 @ 1:00-2:30pm	Luke Sanders†	Ivan Christov Shrihari Pande Pranay Nagrani
Poster #405 presented 7/27 @ 1:00-2:30pm	Arghya Sarkar†	Neera Jain Madeleine Yuh
Poster #406 presented 7/27 @ 1:00-2:30pm	Daksh Kumar Singh†	Alexandra Boltasseva Blake Wilson Yuheng Chen Alexander Kildishev Vladimir Shalaev
Poster #407 presented 7/27 @ 1:00-2:30pm	Michael Solmos†	Hany Abdel-Khalik Arvind Sundaram
Poster #408 presented 7/27 @ 1:00-2:30pm	Yubo Song†	Tiwei Wei Zheng Gong
Poster #409 presented 7/27 @ 1:00-2:30pm	Ashwin Sreedhar† David Fall‡ Nikhil Pisolkar‡	Hany Abdel-Khalik Arvind Sundaram
Poster #410 presented 7/27 @ 1:00-2:30pm	Sreevickrant Sreekanth† Dulani Wijayarathne‡	Milind Kulkarni Raghav Malik
Poster #411 presented 7/27 @ 1:00-2:30pm	Yashaswini Subramaniam†	Arvind Sundaram Tyler Lewis Hany Abdel-Khalik
Poster #412 presented 7/27 @ 1:00-2:30pm	Brooklin Toombs†	Amy Reibman
Poster #413 presented 7/27 @ 1:00-2:30pm	Nathon Tubbs†	Airehenbuwa Blessing
Poster #414 presented 7/27 @ 1:00-2:30pm	Amanda Walenciak†	Luis Gomez David Czerwonky
Poster #415 presented 7/27 @ 1:00-2:30pm	Clayton Walker†	Sanjay Rao Ehab Ghabashneh
Poster #416 presented 7/27 @ 1:00-2:30pm	Benjamin Wassgren†	Xianfan Xu Yikang Chen
Poster #417 presented 7/27 @ 1:00-2:30pm	Dulani Wijayarathne† Sreevickrant Sreekanth†	Milind Kulkarni Raghav Mailk
Poster #418 presented 7/27 @ 1:00-2:30pm	Chloe Yoder†	Hany Abdel-Khalik Arvind Sundaram Tyler Lewis
Poster #419 presented 7/27 @ 1:00-2:30pm	Lijun Zhu†	Ziyi Liu
Poster #420 presented 7/27 @ 1:00-2:30pm	Camden Bettag†	Jeffrey Greeley Luke Pretzie Anik Biswas
Poster #421 presented 7/27 @ 1:00-2:30pm	Jackson Boodry† Mahagani Lasciers‡	Raj Gounder Angel Santiago-Colon Justin Rosa-Rojas
Poster #422 presented 7/27 @ 1:00-2:30pm	Carson Felton†	Can Li Kaiyu Cao Asha Ramanujam
Poster #423 presented 7/27 @ 1:00-2:30pm	Kyla Fung†	Raj Gounder Diamarys salome rivera Ricem Diaz Arroyo

Presentation	Students	Mentors
Poster #424 presented 7/27 @ 1:00-2:30pm	Rebecca Hurwitz† Hallie Todd‡ Logan Maddox‡ Alexa Earle*	Brian Tackett Ashutosh Bhadouria
Poster #425 presented 7/27 @ 1:00-2:30pm	Emmanuel Ortiz† Matthew Gerona‡	Jeff Miller Ted Kim
Poster #426 presented 7/27 @ 1:00-2:30pm	Cora Powell†	Jeffery Miller Ted Kim Wei-Ling Huang Hamta Bardool Shan Jiang
Poster #427 presented 7/27 @ 1:00-2:30pm	Lavinia Barker†	Tiwei Wei Shuhang Lyu Keyu Wang
Poster #428 presented 7/27 @ 1:00-2:30pm	Antariksh Krishnan†	Tiwei Wei Keyu Wang Shuhang Lyu
Poster #429 presented 7/27 @ 1:00-2:30pm	Reagan McCafferty†	Allen Garner Lorin Breen
Poster #430 presented 7/27 @ 1:00-2:30pm	Andrew Modin†	Tiwei Wei Shuhang Lyu Keyu Wang
Poster #431 presented 7/27 @ 1:00-2:30pm	Kyle Wiegand†	Shubhra Bansal
Poster #432 presented 7/27 @ 1:00-2:30pm	Elliot Wong†	Peter Bermel Allen Garner Sayan Roy
Research Talk #506 presented 7/27 @ 9:00am	Jack Martin†	Diane Collard Steven Son Gabriel Montoya
Research Talk #507 presented 7/27 @ 9:20am	Aline Kruger†	Letian Dou Jiaonan Sun
Research Talk #508 presented 7/27 @ 9:40am	Jayden Pierce† Dhruv Mendpara*	Rex Reklaitis Yan-Shu Huang Sunidhi Bachawala
Research Talk #509 presented 7/27 @ 9:00am	Parth Doshi† Ricardo Andres Calvome Mendez‡ Kyle Robinson‡	James Davis Paschal Amusuo
Research Talk #510 presented 7/27 @ 9:20am	Cole Lush† Ishaan Rao*	Peter Bermel Sayan Roy
Research Talk #511 presented 7/27 @ 9:40am	Adam Piaseczny†	Christopher Brinton Rohit Parasnis
Research Talk #512 presented 7/27 @ 9:00am	Seyed Kiarash Mossalaei†	Jim Braun Parveen Dhillion Do Hyeon Kim Jie Ma W. Travis Horton
Research Talk #513 presented 7/27 @ 9:20am	Youyi Zhou†	David Warsinger Sudharshan Anandan
Research Talk #514 presented 7/27 @ 9:40am	Rohit Jammula†	Xianfan Xu Jason Johnson
Research Talk #521 presented 7/27 @ 10:00am	Matthew C. Gerona† Emmanuel Ortiz‡	Jeffrey Miller Ted Taewook Kim

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

Presentation	Students	Mentors
Research Talk #522 presented 7/27 @ 10:20am	Adam Georgopoulos†	Rex Reklaitis Rexonni Lagare
Research Talk #523 presented 7/27 @ 10:40am	Hannah Oberg†	Brian Tackett Joseph Heil
Research Talk #524 presented 7/27 @ 10:00am	ILo Chen†	Qi Guo
Research Talk #525 presented 7/27 @ 10:20am	Darin Tsai†	Patrick Hyun Shijun Zhou
Research Talk #526 presented 7/27 @ 10:40am	Guo Yu†	Qi Guo Charles Brookshire
Research Talk #527 presented 7/27 @ 10:00am	Joel Laudo†	Adrian Buganza Tepole Tina Han
Research Talk #528 presented 7/27 @ 10:20am	Alvaro Miguel†	Partha Mukherjee Abhinand Ayyaswamy Bairav Vishnugopi
Research Talk #529 presented 7/27 @ 10:40am	Ella Richardson†	Monique McClain Josh Anderson
Research Talk #536 presented 7/27 @ 11:00am	Alina Stuleanu† Viet Khoi Pham Khac‡	Vladimir Shalaev Samuel Peana
Research Talk #537 presented 7/27 @ 11:20am	Shayak Chatterjee†	Steve Wereley Pranshul Sardana Zhengwei Chen
Research Talk #538 presented 7/27 @ 11:40am	Christina Lumpp†	Monique McClain James Plotzke
Research Talk #539 presented 7/27 @ 11:00am	Joshua Kamphuis† Tim Nadolsky‡ Kevin Kwon* Tanin Padungkirtsakul* Sanya Dod* Kareena Patel* Rochelle Xue* Haichang Li*	Yung-Hsiang Lu Kristen Yeon-Ji Yun Purvish Jajal
Research Talk #540 presented 7/27 @ 11:20am	Anusha Sarraf†	James Davis Purvish Jajal
Research Talk #541 presented 7/27 @ 11:40am	Luke Fortner†	Muhammad Alam Md. Asaduz Zaman Mamun
Research Talk #542 presented 7/27 @ 11:00am	Justin Rodriguez† Jalal Ahmad Farooka*	Alex Chortos Jue Wang Mina Lee
Research Talk #543 presented 7/27 @ 11:20am	Seungbin Kwon†	Andres F. Arrieta Katherine S. Riley Laura Alvarez Adrian Buganza Tepole Craig Goergen
Research Talk #544 presented 7/27 @ 11:40am	Katherine Raykova†	Xiulin Ruan Emily Barber
Research Talk #545 presented 7/27 @ 12:00pm	William Bush†	Thomas Siegmund Elizabeth Montagnino John Howarter
Research Talk #546 presented 7/27 @ 12:00pm	Ishaan Rao† Cole Lush*	Peter Bermel Sayan Roy
Research Talk #547 presented 7/27 @ 12:00pm	Xipeng Wang†	Neera Jain Sibibalan Jeevanandam Michael Williamson Tabango

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Presentation	Students	Mentors
Research Talk #554 presented 7/27 @ 1:40pm	Skyler Campbell†	Mohit Verma Jiangshan Wang Bibek Raut
Research Talk #555 presented 7/27 @ 1:40pm	Jingqing Liu†	Antonio Bobet Juan Jimenez
Research Talk #556 presented 7/27 @ 1:40pm	Gabrielle Tanner†	Taimoor Qazi
Research Talk #563 presented 7/27 @ 2:00pm	Son Ha† Jungeun Hwang‡	Dharmendra Saraswat Varun Aggarwal Aanis Ahmad
Research Talk #564 presented 7/27 @ 2:20pm	Mengting Xu†	Andy Tao Marco Hadisurya
Research Talk #565 presented 7/27 @ 2:40pm	Emily Bell† Andres Navarro‡	Ed Bartlett Meredith Ziliak
Research Talk #566 presented 7/27 @ 2:00pm	Shreejit Poudyal†	Nadia Gkritza Prasanna Humagain Ricardo Chahine
Research Talk #567 presented 7/27 @ 2:20pm	Nestor Felipe Gonzalez Garcia†	Sogand Hasanzadeh Woei-Chyi Chang
Research Talk #568 presented 7/27 @ 2:40pm	Hannah Tharrington† Catherine Fleming*	Paula Coelho Paula Coelho Caitlin Proctor
Research Talk #569 presented 7/27 @ 2:00pm	Matthew Boyd†	Tae Yoon Kim Md Foysal Rabbi
Research Talk #570 presented 7/27 @ 2:20pm	Charlotte Cleary†	Craig Goergen Elnaz Ghajar-Rahimi
Research Talk #571 presented 7/27 @ 2:40pm	Alyssa Richards†	Craig Goergen Conner Earl Steven Welc Larry Markham Mark Kowala
Research Talk #578 presented 7/27 @ 3:00pm	Matthew Schiavone†	Jianguo Mei Mustafa Ahmed
Research Talk #579 presented 7/27 @ 3:20pm	Julia Ku† Camila Strachan‡ Matthew Wilson‡	Garth Simpson Kevin Murati Gwendylan Turner Caitlin Dunlap
Research Talk #580 presented 7/27 @ 3:40pm	Anusha Waseem†	Greg Michalski
Research Talk #581 presented 7/27 @ 3:00pm	Grayson Wittbrod†	Brandon Boor Nusrat Jung Jinglin Jiang Xiaosu Ding
Research Talk #582 presented 7/27 @ 3:20pm	Aditya Arjun Anibha† Harrison Booker‡ Ansh Mishra* Sumaira Khan* Yuto Tanaka*	Ran Dai
Research Talk #583 presented 7/27 @ 3:40pm	Joseph Meier†	Tyler Tallman Julio Hernandez
Research Talk #584 presented 7/27 @ 3:00pm	Jarrett Fowler†	Rachel Morrison Sherry Harbin
Research Talk #585 presented 7/27 @ 3:20pm	Leia Schiltz†	Taimoor Qazi

Student Role Notation: †Presenting Author, ‡Contributing Author, *Acknowledgement   11

Presentation	Students	Mentors
Research Talk #586 presented 7/27 @ 3:40pm	Amelya Fox†	Craig Goergen Luke Schepers Conner Earl
Research Talk #593 presented 7/27 @ 4:00pm	Kotekar Annapoorna Prabhu† Caroline Henson*	Alexandria Volkening
Research Talk #594 presented 7/27 @ 4:20pm	Manuel Torres Narvaez† Samuel Wilson* Valentina Toro*	Rob Stahelin
Research Talk #595 presented 7/27 @ 4:40pm	Diya Sakhrani†	Craig Goergen Elnaz Ghajar-Rahimi
Research Talk #596 presented 7/27 @ 4:00pm	Byung Wook Kim† Hyunjun Park‡	Deepak Raina Richard Voyles
Research Talk #597 presented 7/27 @ 4:20pm	Sydney Belk† Yichu Xu* Jackson Truitt*	Jeffrey Youngblood Michael Titus Rodrigo Orta David Johnson
Research Talk #598 presented 7/27 @ 4:40pm	Hevi (Tash) Medde-Witage†	Carol Handwerker John Blendell Hannah Fowler Lijia Xie
Research Talk #599 presented 7/27 @ 4:00pm	Nikki Kulkarni†	Taimoor Qazi
Research Talk #600 presented 7/27 @ 4:20pm	Shiv Shukla†	Tamara Kinzer-Ursem Barrett Davis
Research Talk #601 presented 7/27 @ 4:40pm	Ethan John†	Tamara Kinzer-Ursem Eugene Kim
Research Talk #716 presented 7/26-7/31 virtually	Ved Arora† Nayeli Gurrola‡ Oluwatumininu Oguntola*	Guangzhen Jin Amiya Maji
Research Talk #717 presented 7/26-7/31 virtually	Aneesh Chakravarthula†	Christopher Thompson Lev Gorenstein
Research Talk #718 presented 7/26-7/31 virtually	Nayeli Gurrola† Ved Arora‡	Guangzhen Jin Amiya Maji
Research Talk #719 presented 7/26-7/31 virtually	Oluwatumininu Oguntola†	Erik Gough Rajesh Kalyanam
Research Talk #720 presented 7/26-7/31 virtually	Henry Olson†	Erik Gough Ryan DeRue