

ROSTER OF STUDENT RESEARCHERS

#	STUDENT RESEARCHER	PROJECT TITLE	ADVISOR	DEPARTMENT
1	Nicole Aggarwal	Composition of Online Racism: Decoding Racist Internet Memes	Dr. Susan Alexander	Sociology
2	Adriana Archilla Fraticelli	Controlling Lymphatic Tube Formation Using Synthetic Hydrogels	Dr. Donny Hanjaya-Putra	Aerospace and Mechanical Engineering
3	Grace Arntz	Stability of a Thorium Metal Organic Framework in Extreme Conditions	Dr. Peter C. Burns	Chemistry and Biochemistry
4	Lindsay Baca	Factors of Psychosocial Risk as Moderators for Father Involvement	Dr. Julia Braungart-Rieker	Psychology
5	Kyle Barrentine	The Adjustment of Network Size Among Depressed Persons with Too Large of a Social Network	Dr. David Hachen	Sociology
6	Grant Barthelmes	Synthesis and measurement of charge switching in mixed-valence molecules	Dr. Greg Snider	Electrical Engineering
7	Alexandra Bejarano	WiFi Leaf Detection System	Dr. Aaron Striegel	Computer Science and Engineering
8	Joseph Brennan	Improving process-guided deep learning approach to lake temperature estimation with data assimilation techniques	Dr. Jacob Zwart ('17)	Biological Sciences
9	Chase Brown	Construction of a POMDP Learning Model for Human Robot Collaboration	Dr. Hai Lin	Electrical Engineering
10	Timothy Burley	Sorting Ontologically Narrowed NLP Edited Text with a Scientific Workflow	Dr. Paul Brenner	Center for Research Computing
11	Patrick Callaghan	Dual-Polarized Monopulse Radar	Dr. Thomas Pratt	Electrical Engineering
12	Isaac Carrasco	Improving Hands-On Implementation of Collaborative Intelligent Radio Systems for Congested Wireless Environments	Dr. J. Nicholas Laneman	Electrical Engineering
13	Joe Carthy	Adiabatic Circuit Simulation	Dr. Greg Snider	Electrical Engineering
14	Alfred Chang	Development a Flowing Thin-Film Plasma-Liquid System	Dr. David B. Go	Aerospace and Mechanical Engineering
15	Chichi Christine	Augmenting Drones Used in Emergency Response	Dr. Jane Cleland-Huang	Computer Science and Engineering
16	TJ Dasso	Analyzing Throughput and Consistency within the Work Queue Distributed Computing System	Dr. Douglas Thain	Computer Science and Engineering
17	Tyra Davenport	The Path Toward Resilient and Self-Sufficient Refugee-Host Integrated Communities	Dr. Rahul Oka	Anthropology
18	Muireann de h-Óra	Spectroscopic Photoresponse System for Measurement of Semiconductor Heterostructure Band-Offsets	Dr. Alan Seabaugh	Electrical Engineering
19	Stanley Dennison	Developing New Infrared Spectroscopy Techniques for Catalytic Reactions	Dr. Jason Hicks	Chemical and Biomolecular Engineering
20	Abigail Donaldson	Ni ₂ P and Fe ₂ P Catalysts Synthesis and Characterization	Dr. Jason Hicks, Dr. William Schneider	Chemical and Biomolecular Engineering
21	Jake Drysdale	How Halide Composition Influences Temperature-Dependent Perovskite Solar Cell Properties	Dr. Prashant Kamat	Chemistry and Biochemistry
22	Lucy Du	CANO's Effect on Disadvantaged Communities: Evidence of Domestic Violence Perpetuation	Dr. Sarah Kroeger	Economics

23	Carla Dumas	Simulating The Effects of Climate Change on SRP Load in a Midwestern Agricultural Watershed	Dr. Alan Hamlet	Civil and Environmental Engineering and Earth Sciences
24	Mackenzie Fannin	Assessing the Relationship Between Spousal Attachment and Parenting Stress	Dr. Julie Braungart-Rieker	Psychology
25	Evan Ferguson	Polymer Membranes with Tunable Microporosity for Gas Separations	Dr. Ruilan Guo	Chemical and Biomolecular Engineering
26	Ivol Frasier	How Teacher Support Affects Math Attitudes and Active Procrastination in High Achieving Students	Dr. Ying (Alison) Cheng	Psychology
27	Bryan Galeas	Hydrothermal Synthesis of Uranyl-based Metal Organic Frameworks	Dr. Peter C. Burns	Civil and Environmental Engineering and Earth Sciences
28	Gina Girgis	Participatory Design Activities To Support The Holistic Review Process For Undergraduate Admissions	Dr. Ronald Metoyer	Computer Science and Engineering
29	Maria C. Gomez	Adverse childhood experiences and economic opportunity.	Dr. William N Evans	Economics
30	Seancarlos Gonzalez	Improving the Longevity of Lithium Metal Batteries	Dr. Jennifer L. Schaefer	Chemical and Biomolecular Engineering
31	Jennifer Hartman	The analysis of Nepali pharmaceuticals using paper-based analytical devices and Raman Spectroscopy	Dr. Don Paetkau	Biological Sciences
32	Spencer Hayes	High-Throughput Polymer Membranes as Platforms for Tailored Chemical Functionality	Dr. William Phillip	Chemical and Biomolecular Engineering
33	Federico G. Hita	Generation of Plasma Activated Water (PAW) using Mechanical Actuation of Piezoelectric Crystals	Dr. David B. Go	Aerospace and Mechanical Engineering
34	Anastasia Hite	Self-Esteem Levels by Race, Gender, and Network: Students of Color on a Majority White Campus	Dr. David Hachen	Sociology
35	Fuwei Huang	HEMT-High Linearity GaN Transistor	Dr. Patrick Fay	Electrical Engineering
36	Lorissa Humble	Applying Event Coincidence Analysis to Predict Triggers of Mass Atrocities	Dr. Paul Brenner	Center for Research Computing
37	Muhammad M. Hussain	Software-Defined Antennas with Phase-Change Materials	Dr. Jonathan Chisum	Electrical Engineering
38	Se Hwan Jeon	Triple Point Enhancement of Thermally-driven Plasma Generation	Dr. David B. Go	Aerospace and Mechanical Engineering
39	Alexa Jimenez	Dysphoria and Well-Being in Daily Life: Constructing Valid Short Forms for Ecological Momentary Assessment Studies	Dr. David Watson	Psychology
40	Catherine Kehner	Video Games as Escape in a Crisis of Masculinity	Dr. Susan Alexander	Sociology
41	Dawn Kelly	Development of Eu(III) Complex Coatings with Oxygen-Sensitised Luminescence	Dr. Hirotaka Sakaue	Aerospace and Mechanical Engineering
42	Brad King	Characterizing Information Leakage in Low Power Wireless Modules	Dr. Siddharth Joshi	Computer Science and Engineering
43	Stephen Koch	Fabrication of Ductile yet Tough Polymer Composites	Dr. Tengfei Luo	Aerospace and Mechanical Engineering
44	Ebrima Komma	Solvent-in-Salt Liquid Crystalline Electrolytes for next- generation rechargeable batteries	Dr. Jennifer Schaefer	Chemical and Biomolecular Engineering

45	Katie La Costa	Dynamic Peptide-based Nanomaterials for Enzyme Targeted Drug Delivery	Dr. Matthew Webber	Chemical and Biomolecular Engineering
46	Zijuan Liang	Fabrication of Gold Nanoplates Using Substrate-immobilized Seeds Lined with Planar Defects via a Directed-Shock wave	Dr. Svetlana Neretina	Aerospace and Mechanical Engineering
47	Mary Manley	Microbial contamination of Ayurvedic medications collected in Nepal	Dr. Reena Lamichhane-Khadka	Biological Sciences
48	Alondra Marrero	Biosorption of Rare Earth Elements through Cell Surface Display of Lanthanide Binding Proteins	Dr. Na Wei	Civil and Environmental Engineering and Earth Sciences
49	Hannah McGinness	Preparation of semi-Interpenetrating Network (s-IPN) Membranes Based on Matrimid® Polyimide and Celazole® Polybenzimidazole (PBI) for Gas Separation Applications	Dr. Ruilan Guo	Chemical and Biomolecular Engineering
50	Sanesha McPherson	Solving semidefinite programs using Bertini and Matlab	Dr. Jonathan Hauenstein	Applied and Computational Mathematics and Statistics
51	Erick J. Mendez	Tuning a Hydrogen Bonding Network to Control the Phase, Dynamic and Electrochemical Behavior of Redox-active Deep Eutectic Solvents	Dr. Edward Maginn	Chemical and Biomolecular Engineering
52	Brian Mendoza	Iterative design and fabrication of a hexapedal robot	Dr. Mark Plecnik	Aerospace and Mechanical Engineering
53	Charles Meyers	Coordinated Robots Through Wireless Communication	Dr. Hai Lin	Electrical Engineering
54	Akil Mondie	Exploring Substituent Effects on Friedel-Crafts Hydroxyalkylation via Hammett plot projection	Dr. Haifeng Gao	Chemistry and Biochemistry
55	Dalia Mota	Tracking in Indiana's Schools	Dr. William Carbonaro, Dr. Amy Langenkamp	Sociology
56	Samirah Muhammad	Cucurbituril Functionalized Absorptive Membranes for The Detection of Fentanyl in Water	Dr. William Phillip	Chemical and Biomolecular Engineering
57	Linda Nwumeh	Dialogue Structure Patterns Predictive of Success in a Communicative Search Task	Dr. Kathleen Eberhard	Psychology
58	Emmanuel Okafor	Prototype Implementation of Frequency domain diffuse optical spectroscopy using a multi-phase approach.	Dr. Thomas O'Sullivan	Electrical Engineering
59	Anna Paetkau	Surveying for E. coli contamination of Drinking Water Sources in Nepal	Dr. Don Paetkau	Biological Sciences
60	Taylor Petersen	A 3D Map is More Effective When Giving Directions Than a 2D Map	Dr. Kathleen Eberhard	Psychology
61	Norbert Xavier Ramos Lopez	Composition Effect in Bimetallic (FeNi) _x -Phosphides for Cinnamaldehyde Hydrogenation	Dr. Jason Hicks	Chemical and Biomolecular Engineering
62	Kimberly Riordan	Synthesis Toward a Trigonal Pyramidal Sulfur Radical Supported by a Triarylborane Framework	Dr. Emily Tsui	Chemistry and Biochemistry
63	Jessica Saeli	Lost in Translation: Love, Sex, and Death in the Autobiography of Nikolai Berdyaev	Dr. Ann Astell	Theology
64	Danielle Sanchez	Selma: Sisters and Saints	Dr. David Clairmont	Theology
65	Gabriella Sanford	Advanced Wireless Communications for Drone Swarms	Dr. J. Nicholas Laneman	Electrical Engineering

66	Zachary Schoon	RadioHound: A low cost spectrum sensor	Dr. Bertrand Hochwald	Electrical Engineering
67	Charles Sleeper	Parallelization of NLP Applications for Genocide Prediction	Dr. Paul Brenner	Center for Research Computing
68	Josemaria S. Soriano	Ionothermal Synthesis of Actinide-Based Metal Organic Frameworks and Clusters	Dr. Peter C. Burns	Chemistry and Biochemistry
69	Joy Thompson	Experimental and Computational Insights on Ethylene Oligomerization by Oxide-Supported Group 4 Metal Hydrides	Dr. Jason Hicks, Dr. William Schneider	Chemical and Biomolecular Engineering
70	Isaac Thuesen	What Predicts Math Attitudes? Examining Associations with Demographic Characteristics and Personality Traits as Predictors	Dr. Alison Cheng, Dr. Teresa Ober	Psychology
71	Marixza Torres	Persistence of Work Orientation in Adolescents with ADHD: A Regression Analysis	Dr. Dawn M. Gondoli	Psychology
72	Graham Van Every	Developing a Protocol for the Post-Assembly Functionalization of Chemically-Tailored Copolymer Membranes	Dr. William Phillip	Chemical and Biomolecular Engineering
73	Alex Volk	Modular Assembly of Nanosystems Using Light Gradients	Dr. Gregory Timp	Electrical Engineering
74	Stephanie Wallace	Magneto-silica nanoparticles (MagSiNs) for combinatorial chemotherapeutics and gene delivery against metastatic cancers	Dr. Prakash Nallathamby	Aerospace and Mechanical Engineering
75	Manchen Wen	Modeling Migration on a Global Scale	Dr. Paul Brenner	Computer Science and Engineering
76	Hang Xie	Sentiment Analysis on Global News	Dr. Paul Brenner	Computer Science and Engineering
77	Ruyu Zhou	Modeling Migration on a Global Scale	Dr. Paul Brenner	Computer Science and Engineering

POSTER SESSION 1: 9:30 – 10:30 A.M.

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