28th Annual
UROC Poster Session

August 7, 2023
North Ballroom
Student Union Memorial Center
WELCOME TO THE 28TH ANNUAL UROC RESEARCH CONFERENCE

The Undergraduate Research Opportunities Consortium (UROC) is managed by the University of Arizona Graduate College and is comprised of 10 undergraduate research programs. Six of the programs are managed by the Graduate College and four are affiliated programs sponsored by the National Science Foundation Research Experience for Undergraduates (NSF REU) Program. The objective of the consortium is to increase the number of underrepresented students who apply to graduate school. UROC Scholars engage in faculty-supervised research and participate in a comprehensive graduate school preparation program that includes Graduate Record Examination (GRE) test preparation, graduate admission and funding workshops, presentation skills seminars and a professional research conference experience. We invite you to enjoy the UROC Research Conference and share in our students’ success!

2023 UROC PROGRAM STAFF AND SPONSORS

Graduate College UROC Programs

Access, Wellness, And Relational Determinants of Student Success (AWARDSS) Publishing, policy, practice, Leadership and life-long learning for Underrepresented Students (PLUS) Training Program
Pi: Michelle M. Perfect, Ph.D.
Co-Pi: Brandy A. Brown Perkl, Ph.D.
Coordinators: W. Haydon Ekstrom
Graduate Teaching Assistants: Mary L. Bankhead, M.S.; Melinda Willet Struyk, M.A.; Lidia Azurdia Sierra, MPH; Kia Schott, and Cori Manning
Sponsors: Institute of Educational Sciences, U.S. Department of Education, (Award: #R305B20019), University of Arizona Graduate College

Maximizing Access to Research Careers (MARC)
Pi/Director: Katrina Miranda, PhD
Co-Director: Sam Campos, PhD
Assistant Director: Cindy Neal, MEd
Sponsors: National Institute of General Medical Sciences of the National Institutes of Health (NIGMS-NIH)

Minimizing Health Disparities (MHD)
Program Coordinator: Tianna MacMeans
Sponsors: Western Alliance to Expand Student Opportunities (WAESO), Building Undergraduate Infrastructure Leading to Diversity: Southwest Consortium of Health-Oriented Education Leaders and Research Scholars (BUILDing SCHOLARS)-University of Texas, El Paso, University of Arizona Graduate College

Ronald E. McNair Achievement Program (McNair)
Pi/Program Director: Andrew Huerta, Ph.D.
Administrative Assistant: Victoria Juvera
Graduate Teaching Assistants: Jacqueline Larriva, ABD and Fernando Paredes, M.A.
Sponsors: U.S. Department of Education, Federal TRIO Program, Ronald E. McNair Postbaccalaureate Achievement Program (Award: #P217A220105), Western Alliance to Expand Student Opportunities (WAESO), University of Arizona Graduate College

Summer Research Institute (SRI)
Program Coordinator: Tianna MacMeans
Instructor: Leah Callovini, M.A.
Graduate Teaching Assistants: Melinda Willett Struyk, M.A.
Sponsors: University of Arizona Graduate College and Western Alliance to Expand Student Opportunities (WAESO)

UROC-PREP
Program Coordinator: Tianna MacMeans
Instructor: Leah Callovini, M.A.
Graduate Teaching Assistants: Mary L. Bankhead, M.S., Melinda Willet Struyk, M.A., Lidia Azurdia Sierra, MPH
Sponsors: University of Arizona Graduate College and Western Alliance to Expand Student Opportunities (WAESO)

UROC Affiliate Programs

Biosphere 2: Research for Environmental Solutions (B2 REU)
PI: Katerina Dontsova, Ph.D.
Co-PI: Kevin Bonine, Ph.D.
Sponsors: National Science Foundation Research Experiences for Undergraduates (NSF REU) Program and University of Arizona Graduate College

Cognitive and Autonomous Test (CAT) Vehicle Program/Electrical and Computer Engineering REU
PI: Loukas Lazos, Ph.D.
Coordinator: Courtney Leligdon
Graduate Assistant Mentors: Ziqi Xu, Jingcheng Li, and Ameer Nessaei
Sponsors: National Science Foundation REU and University of Arizona Graduate College

Partnership and Proactive Cybersecurity Training (PACT)
PI: Salim Hariri, Ph.D.
Coordinator: Arminda Estrada
Graduate Assistant Mentors: Murad Mehrab Abrar, Sicong Shao, Ph.D.
Sponsors: U.S. Department of Energy (DoE), University of Arizona Graduate College

Scholar Training Academy for Research in STEM (STARS)
PI: Jennifer Batchelder, Ph.D.
Co-PI: Rebecca Gomez, Ph.D.
Co-PI: Nura Dualeh, M.A.
Coordinator: Leah Callovini, M.A.
Instructor: Leah Callovini, M.A.
Graduate Teaching Assistants: Mary L. Bankhead, M.S.; Melinda Willet Struyk, M.A.; Lidia Azurdia Sierra, MPH
Sponsors: Gordon and Betty Moore Foundation, Arizona Science, Engineering, and Math Scholars (ASEMS) Program, University of Arizona Graduate College
Guest Programs Supported by UROC

BLAISER/FRONTERA Summer Internship
PI: Francisco Moreno, M.D.
Director: Alejandra Zapien Hidalgo, M.D., MPH
Program Coordinator: Ycied Talavera Guillen, MPH
Sponsor: AZ Hope Grant, Arizona Health Sciences – Office of Equity, Diversity, and Inclusion

Quantum Que?
PI: Allison Huff-MacPherson, Ph.D.
Program Coordinator: Aglhaen Nieto
Sponsor: National Science Foundation Hispanic Serving Institution Improving Undergraduate STEM Education (NIH HIS IUSE) Grant

Arizona Center on Aging (ACOA) Medicine, Science, Technology, Engineering, Mathematics (MSTEM) Thrive Program
PI: Dr. Miday Fain and Dr. Linda Phillips
Program Coordinator, Sr.: Susan Bridgewater, M.A.
Sponsor: Arizona Center on Aging, National Institute of Aging (R25AG076387); NIA MSTEM: Advancing Diversity in Aging Research through Undergraduate Education
2023 KEYNOTE SPEAKER
Kirsten Limesand, Ph.D.

Professor, School of Nutritional Sciences and Wellness
Vice Provost for Graduate Education
Dean of the Graduate College

Dr. Kirsten Limesand is the Vice Provost for Graduate Education and Dean of the Graduate College. In this role Dr. Limesand is responsible for excellence in graduate education and for the academic success of graduate students. She leads efforts to provide professional development and mentoring opportunities for students who are pursuing professional, research, and academic careers.

Dr. Limesand built a research career investigating the effects of radiation therapy for head and neck cancer in surrounding normal tissues such as the salivary gland. The resulting salivary gland dysfunction contributes to a multitude of side effects, including xerostomia, oral mucositis, and increased oral infections and caries, which diminishes the effectiveness of anti-cancer therapies, and decreases the quality of life for these patients. The National Institute of Dental and Craniofacial Research (a division of the National Institutes of Health) has continuously supported her team’s work since 2001 with the long-term goal to evaluate whether preventative or restorative interventions can be discovered in order to circumvent salivary gland dysfunction and xerostomia.

Dr. Limesand brings diverse experience stemming from her previous roles as the inaugural Assistant Dean for Graduate Education in the College of Agricultural and Life Sciences and Associate School Director in the School of Nutritional Sciences and Wellness. As Assistant Dean in CALS, she developed a strategic vision for graduate education, designed and implemented activity-informed TA and RA support, and created a professional development program for CALS graduate students that was funded through a public-private partnership.

Dr. Limesand grew up on a farm in Minnesota and is a first-generation student with a bachelor’s in microbiology from North Dakota State University. She obtained a doctorate in virology from Colorado State University and completed post-doctoral work in signal transduction at the University of Colorado Health Sciences Center.
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<th>Poster Number</th>
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| 1             | **Delina Denogean**  
Molecular & Cellular Biology at University of Arizona  
“Determining the Role of nEGFR in a Mouse Model of Breast Cancer”  
Mentored by Dr. Joyce Schroeder (Molecular & Cellular Biology) |
| 2             | **Moses Foiryolo**   
Physiology at University of Arizona  
“Does Ultrasound Therapy reduce Astrogliosis?”  
Mentored by Dr. Elizabeth Hutchinson (Biomedical Engineering) |
| 3             | **Jacob Keroack**    
Neuroscience & Cognitive Science at University of Arizona  
“Using Fentanyl Self-Administration & Retigabine to Model Opioid Use Disorder in Rats”  
Mentored by Dr. Art Riege (Pharmacology) |
| 4             | **Kayma Konecny**    
Optical Sciences at University of Arizona  
“Dermatocast: Enhancing Dermatoscopy through Real Time Broadcasting”  
Mentored by Dr. Dongkyun Kang (Biomedical Engineering) |
| 5             | **Ika Lin**          
Chemistry at University of Arizona  
“Exploring Caged Diazonium Ions as Fluorogenic Detection Tools”  
Mentored by Dr. John Jewett (Chemistry & Biochemistry) |
| 6             | **Paige Wene**       
Microbiology at University of Arizona  
“Evaluating the Effects of Ovariectomy on Cognitive Flexibility on Aging Female Rats”  
Mentored by Dr. Lalitha Madhavan (Neurology) |
|               | **Ronald E. McNair Achievement Program** |
| 7             | **Justin R. Begay**  
Psychology at University of Arizona  
“The Implementation of a School Garden Project for Native American College Students”  
Mentored by Dr. Elizabeth Pope (Educational Psychology) |
| 8             | **Alana Betancourt** 
Biomedical Sciences at University of Arizona  
Mentored by Dr. Paul Langlais (Medicine) |
| 9             | **Luke Matthew Butt**  
History at University of Arizona  
“The Evolution of Intelligence in the United States Military: Success or Failure?”  
Mentored by Dr. Jeremy Vetter (History) |
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<td>10</td>
<td>Gabbi Figueroa</td>
<td>Psychology at University of Arizona</td>
<td>&quot;Collectivized Suffering and Post-Traumatic Growth&quot;</td>
<td>Mentored by Dr. Daniel Sullivan (Psychology)</td>
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<td>Marcus Gomez</td>
<td>Biochemistry at University of Arizona</td>
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<td>Rachel Xavier Gravina</td>
<td>Political Science at University of Arizona</td>
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<td>Mentored by Dr. Jennifer Carlson (Sociology)</td>
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<td>Ryan Greusmuehl</td>
<td>Biomedical Engineering at University of Arizona</td>
<td>“3D Printing of Conductive Nerve Guides”</td>
<td>Mentored by Dr. Shang Song (Biomedical Engineering)</td>
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<td>Dina J. Inzunza</td>
<td>Communication at University of Arizona</td>
<td>“Documenting Stigmatizing Experiences of Mexican Women Living with Endometriosis”</td>
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<td>Chandler Christine Kelser</td>
<td>Biomedical Sciences at University of Arizona</td>
<td>“Drug combinations on lifespan extension in C. elegans”</td>
<td>Mentored by Dr. George Sutphin (Molecular &amp; Cellular Biology)</td>
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<td>Leo Lugo</td>
<td>Pharmaceutical Sciences at University of Arizona</td>
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<td>Molecular and Cellular Biology at University of Arizona</td>
<td>“Developing New Methodology to Understand How Human Papillomavirus Alters Our Own Genes for Survival”</td>
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<td>19</td>
<td>Christian Martinez</td>
<td>1. Astronomy 2. Japanese at University of Arizona</td>
<td>“Type IIn Supernovae and the apparent Bias in their Blue Shifted Hydrogen-Alpha Lines”</td>
<td>Mentored by Dr. Nathan Smith (Astronomy)</td>
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<td>20</td>
<td>Gem Elena Abarca</td>
<td>Studio Art - 3DXM at University of Arizona</td>
<td>“Descubriendo Mis Raíces Through Art”</td>
<td>Mentored by Dr. Gary Setzer (Art)</td>
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<td>21</td>
<td>Nicholas Matthews</td>
<td>Biomedical Engineering at University of Arizona</td>
<td>“Understanding the Interplay between Protein Expression and Oligomerization Dynamics via the SpyCatcher and SpyTag System”</td>
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<td>Alaina Ortiz-LaVía</td>
<td>Neuroscience &amp; Cognitive Science at University of Arizona</td>
<td>“Determining the age of onset of cognitive impairment in male and female TgF344-AD rats”</td>
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<td>Olivia Carmen Otero</td>
<td>1. Mexican American Studies 2. Cultural Anthropology at University of Arizona</td>
<td>“The Mexican Corrido in the Arizona – Sonora Borderlands”</td>
<td>Mentored by Dr. Michelle Tellez &amp; Dr. Estevan Azcona (Mexican American Studies)</td>
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<td>25</td>
<td>Olivea Spencer</td>
<td>Animal Sciences at University of Arizona</td>
<td>“A view into developing diagnostic tools for canines developing cognitive dysfunction disorder”</td>
<td>Mentored by Dr. Evan MacLean (Veterinary Medicine)</td>
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<td>Torian Styles</td>
<td>Neuroscience &amp; Cognitive Science at University of Arizona</td>
<td>“Beyond Brainstorming: Exploring the Relationship Between Rumination and Semantic Distance in a COVID-related Task of Free Association”</td>
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<td>Elyza Villalta</td>
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<td>Elizabeth Yee</td>
<td>Psychological Science at University of Arizona</td>
<td>“Reporting Back Health Information to an Environmental Justice Community Following Historical Trauma”</td>
<td>Mentored by Dr. Daniel Sullivan (Psychology)</td>
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<td>29</td>
<td>Norahan Al-Kubessi</td>
<td>Molecular and Cellular Biology at University of Arizona</td>
<td>“Heat Influences Health Outcomes and Health Behaviors Among Latinx Families Living in Climate Vulnerable Urban Neighborhood”</td>
<td>Mentored by Dr. Celina Valenica (Family and Community Medicine)</td>
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| 30 | **Oscar Angulo**  
Biology: Biomedical emphasis at University of Arizona  
“Role of non-coding RNAs during uterine contractility”  
Mentored by Dr. Elise Erickson (Nursing) |
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| 31 | **Angelo Antenor**  
Molecular and Cellular Biology at University of Arizona  
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| 32 | **Angelica Casas**  
Biological Sciences at The University of Texas, El Paso  
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Mentored by Dr. Greg Barron-Gafford, Tali Neesham-McTiernan & Nesrine Rouini (School of Geography, Development & Environment) |
| 33 | **Gavin Dunn**  
Psychology at Baylor University  
“Age Differences in Spatial Navigation Strategies are Dependent on Type of Cues Available”  
Mentored by Dr. Paul Hill & Dr. Arne Eckstrom (Psychology) |
| 34 | **Sofia Guerra**  
Neuroscience at Smith College  
“Spider Central Nervous System – Total Volume and Neuron Density”  
Mentored by Dr. Wulfila Gronenberg (Neuroscience) |
| 35 | **Brianna Guzman**  
1. Biochemistry 2. Molecular & Cellular Biology at University of Arizona  
“The identification and characterization of human Cytomegalovirus infection in intestinal organoids”  
Mentored by Dr. Curtis Thorne (Cellular & Molecular Medicine) |
| 36 | **Harvey (Felicia) Harvey**  
Molecular & Cellular Biology at University of Arizona  
“even-skipped regulation in Tribolium castaneum”  
Mentored by Dr. Lisa Nagy (Molecular & Cellular Biology) |
| 37 | **Itsel Leyva**  
Neuroscience & Cognitive Science at University of Arizona  
“Intramedullary Nail for Long Bone Segmental Defects in Sheep”  
Mentored by Dr. David Margolis (Biomedical Engineering) |
| 38 | **Aneeyá Lowe**  
Biology at University of Pennsylvania  
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Mentored by Dr. Elise Gornish (School of Natural Resources & the Environment) |
| 39 | **Tyler Martinez**  
Chemistry at University of Arizona  
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| 40 | **Alaya McNamara**  
Psychology at Southern Oregon University  
“Opioid Use Disorder and Intention to Breastfeed: A Health Disparity?”  
Mentored by Dr. Alicia Allen (Family and Community Medicine) |
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<td>41</td>
<td>Ashley Moshkriz</td>
<td>Biomedical Engineering at University of Arizona</td>
<td>“MRI-Based Evaluation of Microstructural Alterations in Rodents Following Low-Intensity Pulsed Ultrasound Therapy for TBI”</td>
<td>Dr. Elizabeth Hutchinson (Biomedical Engineering)</td>
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<td>42</td>
<td>Lauren Moxley</td>
<td>1. Care, Health, &amp; Society 2. Psychology at University of Arizona</td>
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<td>Dr. Darren Cusanovich (Cellular &amp; Molecular Medicine)</td>
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<td>43</td>
<td>Faith Rue</td>
<td>Biology at Adrian College</td>
<td>“The Growth And Death of Streptococcus pneumoniae”</td>
<td>Dr. Michael Johnson (Immunobiology)</td>
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<td>44</td>
<td>Pablo Solis</td>
<td>Forensic Science at University of Texas, El Paso</td>
<td>“Targeting Iron in Cancer Cells with a Glycoconjugate Prochelator”</td>
<td>Dr. Elisa Tomat (Chemistry &amp; Biochemistry)</td>
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<td>45</td>
<td>Rosa Acevedo Duran</td>
<td>Psychology at California State University, Monterey Bay</td>
<td>“Speech Perception in Bilingual Spanish and English Speakers”</td>
<td>Dr. Miquel Simonet (Spanish and Portuguese)</td>
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<td>46</td>
<td>Adel Awad</td>
<td>Physics at University of Arizona</td>
<td>“Gr-hBN-Gr Heterostructures Potential Use as an LED”</td>
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<td>Psychology at University of Arizona</td>
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<td>Dr. Scott Carvajal, Karina Duenas &amp; Emily Larson (Health Promotion Sciences)</td>
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<td>48</td>
<td>Dare Bartelt</td>
<td>Astronomy at University of Arizona</td>
<td>“Measuring the Atmosphere of the Hot Jupiter WASP-43b with Gemini-S/IGRINS”</td>
<td>Dr. Daniel Apai &amp; Dr. Megan Mansfield (Astronomy and Planetary Science)</td>
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<td>Florencia Bravo</td>
<td>English Literature at California State University, Dominguez Hills</td>
<td>“Drive me mad!&quot;: An Intersectional Analysis of Madness in Wuthering Heights and Jane Eyre”</td>
<td>Dr. Meq Lota Brown (1. Graduate College 2. English)</td>
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<td>50</td>
<td>Anabel Cardoza</td>
<td>Linguistics at University of Kansas</td>
<td>“Examining the bilingual advantage in executive function skills among at-risk youth”</td>
<td>Dr. Leah Kapa (Speech, Language, and Hearing Sciences)</td>
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| 51 | **Emiliano Diaz**  
Psychology at University of Arizona  
“Examining How Masculinity Can Change Over Time”  
Mentored by Dr. Katina Sawyer (Management and Organizations) |
| 52 | **Nataly Ghiotto**  
Communication at University of Arizona  
“Convergence of group discussions”  
Mentored by Dr. Joseph Bonito (Communication) |
| 53 | **Christina Kelly**  
Linguistics at University of Arizona  
“Why We Need Preservation Efforts For North American Indigenous Deaf Culture and Language”  
Mentored by Dr. Melanie Cody (Disability and Psychoeducational Studies) |
| 54 | **Nathaniel Kruger**  
Psychology at Wake Forest University  
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| 55 | **Lily McKenna**  
Physics at University of Arizona  
“Using Prior Knowledge to Optimize Mueller Polarimetry”  
Mentored by Dr. Meredith Kupinkski & Jaclyn John (Optical Sciences) |
| 56 | **Logan Pender**  
Individualized Studies: International Education for Higher Education Administration at Winthrop University  
“Decolonizing Education Abroad: Unraveling Colonial Ideologies & Embracing Equitable”  
Mentored by Dr. Heather Haege (Educational Policy Studies and Practice) |
| 57 | **Reyes Reynaga**  
Chicana and Chicano Studies at University of New Mexico  
“Decolonizing Punk and its Archives: Curating a Minority and Chican@ Punk Archive in Albuquerque, NM; from 1980-Present”  
Mentored by Dr. Maurice Rafael Maqañá (Mexican American Studies) |
| 58 | **Stephanie Sandoval**  
Communication Sciences and Disorders at Our Lady of The Lake University  
Mentored by Dr. Elena Plante (Speech, Language, and Hearing Sciences) |
| 59 | **Evan Shields**  
Statistics & Data Science at University of Arizona  
“Quantifying a Therapeutic Window for Cdk2 Inhibitors”  
Mentored by Dr. Helen (Hao) Zhang (Mathematics) |
| 60 | **Maria Silva Garcia**  
1. Marketing 2. International Business and Communications at Washington State University  
“Aesthetics in Advertising Influence on Consumer Psychographics and Behaviorists.”  
Mentored by Dr. Edward Ackerley (Marketing) |
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1. Physics 2. Mathematics at University of Arizona  
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| 62 | **Jared Alvarez**  
Biology: Biomedical emphasis at University of Arizona  
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| 63 | **Carlos Castro Garzon**  
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Mentored by Dr. Franz Rischard (Medicine) |
| 64 | **Marcel Clark**  
1. Applied Mathematics 2. Psychology at University of Arizona  
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Mentored by Dr. David Sbarra (Psychology) |
| 65 | **Stacey Hinzman**  
Sustainable Plant Systems: Urban Horticulture emphasis at University of Arizona  
“Understanding the effects of led light color on the morphology of mushroom species (*Pleurotus spp.*))”  
Mentored by Dr. Barry Pryor (Plant Sciences) |
| 66 | **Isabelle Jacobs**  
1. Natural Resources Conservation 2. Biology at University of Arizona  
“Polymorphisms of parasitic dagger-tail bees (*Hymenoptera: Megachilidae*) of the Sonoran Desert region”  
Mentored by Dr. Wendy Moore (Entomology) |
| 67 | **Yadira Jimenez**  
Biomedical Engineering at University of Arizona  
“Verifying the Efficiency of Multi-brain Holder:Confirming Traumatic Brain Injury via Multi-modal Imaging on Ex-Vivo Mouse Brains”  
Mentored by Dr. Elizabeth Hutchinson (Biomedical Engineering) |
| 68 | **Donette Markham**  
Neuroscience & Cognitive Science at University of Arizona  
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Mentored by Dr. Ying-hui Chou (Psychology) |
| 69 | **Sydney Robbins**  
1. Veterinary Science 2. Biology at University of Arizona  
“The development of precision cell therapeutics for treating Valley fever”  
Mentored by Dr. Adam Buntzman (BIO5 Institute) |
| 70 | **Sam Rose**  
1. Biology 2. Arabic at University of Arizona  
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| 71 | **Sherap Sangpo**  
Psychology at University of Arizona  
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Mentored by Dr. Michael Grandner (Psychiatry) |
| 72 | **Damion Schwendiman**  
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Mentored by Dr. Luisa Ikner (Environmental Science) |
| 73 | **Brianna Tamayo**  
Veterinary Science at University of Arizona  
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Mentored by Dr. Evan MacLean (Veterinary Medicine) |
| 74 | **Leila Yazzie**  
Sustainable Plant Systems at University of Arizona  
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Mentored by Dr. Malak Tfaily (Environmental Science) |
| 75 | **Sylvia Zakayo**  
Neuroscience & Cognitive Science at University of Arizona  
“Development of unbiased stereological methods for the assessment of doublecortin expressing newborn neurons in stem cell niches in the rodent brain”  
Mentored by Dr. Lalitha Madhavan (Neurology) |
| 76 | **Heather Jensen**  
“The role of rumination in the relationship between childhood trauma and psychopathology”  
Mentored by Dr. Jessica Andrews-Hanna (Psychology) |
| 77 | **Dylan Limanek**  
Molecular and Cellular Biology at University of Arizona  
“Measuring WNT Sensitivity and Secretion in APC\textsuperscript{MUT}: Colorectal Cancers”  
Mentored by Dr. Nathan Ellis (Cellular & Molecular Medicine) |
| **UROC-PREP** |
| 78 | **Jack Algier**  
Psychological Science at University of Arizona  
“Extracurriculars and Informal Learning: Contributions to Resiliency for Higher Educational Attainment in Foster Youth”  
Mentored by Dr. Melissa Barnett (Family Studies and Human Development) |
<table>
<thead>
<tr>
<th>No.</th>
<th>Student Name</th>
<th>Field of Study</th>
<th>Title</th>
<th>Mentor and Department</th>
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<tbody>
<tr>
<td>79</td>
<td>Anastasia Barrera</td>
<td>Pre-Nursing at University of Arizona</td>
<td>“Improvements in Executive Function in Children with Autism Spectrum Disorder”</td>
<td>Mentored by Dr. Adriana Cimenta (Educational Psychology)</td>
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<td>80</td>
<td>Kiana Castillo</td>
<td>Deaf Studies at University of Arizona</td>
<td>“Sin Pelos en La Lengua - Case Studies in Cross-Cultural Competency and Practices in Early Intervention Programs for Deaf Multilinguals”</td>
<td>Mentored by Dr. Christina Rivera (Disability and Psychoeducational Studies)</td>
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<td>81</td>
<td>Aimée Chávez</td>
<td>1. Political Science 2. Mexican American Studies at University of Arizona</td>
<td>“A Study of the Recruitment Process and Experiences of Students Who Have Participated in the AVID Program”</td>
<td>Mentored by Dr. Jamaica Delmar (Educational Policy Studies and Practice)</td>
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<td>82</td>
<td>Victor Herrera</td>
<td>Journalism at University of Arizona</td>
<td>“Examining familial expectations in the context of cultural background and its influences on student major choice and career aspirations”</td>
<td>Mentored by Dr. Diane Austin (Anthropology)</td>
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<td>83</td>
<td>Faith Johnson</td>
<td>Neuroscience and Cognitive Science at University of Arizona</td>
<td>“Heal Thy Brain: The Intersectionality of Race, Sleep, and Socioeconomic factors in ADHD”</td>
<td>Mentored by Dr. Sara Frye (Disability and Psychoeducational Studies)</td>
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<td>84</td>
<td>Adriana Kendrick-Perez</td>
<td>Psychology at University of Arizona</td>
<td>“Exploring the Experiences of Queer and Transgender Students of Color in Predominantly White Institutions”</td>
<td>Mentored by Dr. Desiree Veqa (Disability and Psychoeducational Studies)</td>
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<td>85</td>
<td>Seldyn Starkweather</td>
<td>1. Psychological Science 2. Criminal Justice Studies at University of Arizona</td>
<td>“The Relationship Between Parent-Child Interactions, Disruptive Behavior, and Bullying in School-Aged Youth with Type 1 Diabetes”</td>
<td>Mentored by Dr. Michelle Perfect (Disability and Psychoeducational Studies)</td>
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<td>Partnership and Proactive Cybersecurity Training (PACT)</td>
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<td>87</td>
<td>Alek Sepulveda</td>
<td>Systems Engineering at University of Arizona</td>
<td>“Deep Learning for Network Intrusion Detection Systems”</td>
<td>Mentored by Dr. Siconq Shao (Electrical &amp; Computer Engineering)</td>
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<td></td>
<td>Name</td>
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<td>88</td>
<td>Junior Burks</td>
<td>Environmental Science and Sustainability at University of Montana</td>
<td>“Spatial and Temporal Patterns of Methane Efflux in a Controlled Flooded Forest Inside Biosphere 2”</td>
<td>Dr. Joost van Haren (W.A. Franke Honors College)</td>
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<td>89</td>
<td>Angelee Castro</td>
<td>Earth Science at University of California, Santa Barbara</td>
<td>“Seasonal Variation of Uranium in the Puerco River Basin”</td>
<td>Dr. Joseph Hoover (Environmental Science)</td>
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<tr>
<td>90</td>
<td>Victoria Duncan</td>
<td>1. Biology 2. Environmental Studies at Roanoke College</td>
<td>“Changes in Mineral Composition and Nutrient Availability in Early Succession Soils”</td>
<td>Dr. Katerina Dontsova (Environmental Science)</td>
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<tr>
<td>91</td>
<td>Evan Eldermire</td>
<td>Environmental Science at Trinity College</td>
<td>“Rate of Acclimatization of Theobroma cacao to Rising Temperatures in an Enclosed Tropical Forest at Biosphere 2”</td>
<td>Dr. Joost van Haren (W.A. Franke Honors College)</td>
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<td>92</td>
<td>Ayanna Hatton</td>
<td>Biochemistry at Bowdoin College</td>
<td>“Differences in α-pinene emission and enantiomer uptake over three experimental biomes”</td>
<td>Dr. Laura Meredith (School of Natural Resources &amp; the Environment)</td>
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<td>93</td>
<td>Emma Hotchkiss</td>
<td>1. Biology 2. Earth and Environmental Science at Wesleyan University</td>
<td>“Dynamic Interplay of Soil Biomass and Water Content Shapes Microbial Respiration Across a Successional Gradient”</td>
<td>Dr. Malak Tfaily (Environmental Science)</td>
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<td>94</td>
<td>Kathryn McNERney</td>
<td>1. Geoscience and Geography 2. Earth Science at Trinity College Dublin - Columbia, Dual BA Program</td>
<td>“Effects of Sunlight, Temperature and Moisture on Small CO₂ Fluctuations of Bare Soil, Soil with Moss and Soil with a Biocrust on a Landscape Evolutionary Observatory”</td>
<td>Dr. Joost van Haren (W.A. Franke Honors College)</td>
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<td>95</td>
<td>Paola Miramontes Gonzalez</td>
<td>1. Environmental Science 2. Biology at University of Nevada, Reno</td>
<td>“Hydrogeochemical Evolution of Groundwater in the Colorado Plateau”</td>
<td>Dr. Jennifer McIntosh (Hydrology and Atmospheric Sciences)</td>
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<td>96</td>
<td>Destany Pete</td>
<td>Ecology and Conservation Biology at University of Idaho</td>
<td>“Oceanic Remediation: Harnessing the Power of Nudibranchs for Coral Reef Restoration and Integrated Pest Management”</td>
<td>Dr. Diane Thompson (Geosciences)</td>
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<td>97</td>
<td>Quintin Pezzino</td>
<td>Cornell University</td>
<td>“Volatile Organic Compound Emissions During Primary Succession at the Biosphere 2 Landscape Evolution Observatory”</td>
<td>Dr. Laura Meredith</td>
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<td>98</td>
<td>Ryan Yazzie</td>
<td>Fort Lewis College</td>
<td>“The Landscape Evolution Observatory: Analysis of the total organic carbon and nitrogen present within a simulated primary succession hill slope”</td>
<td>Dr. Katerina Dontsova</td>
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<td>99</td>
<td>Jesus Pina Minjarez</td>
<td>University of Arizona</td>
<td>“Photic Integrated Circuits”</td>
<td>Dr. Matt Eichenfield</td>
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<td>100</td>
<td>Ulyssess Esquivias</td>
<td>University of Arizona</td>
<td>“Acoustic waveguides and parametric amplifiers”</td>
<td>Dr. Matt Eichenfield</td>
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<td>Arizona Center on Aging (ACOA) Medicine, Science, Technology, Engineering, Mathematics (MSTEM) Thrive Program</td>
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<td>101</td>
<td>Luis Ceballos</td>
<td>University of Arizona</td>
<td>“Organizational Health Literacy: Data Collection”</td>
<td>Tawab Saljuqi, MD, MPH, DrPH(Surgery)</td>
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<td>102</td>
<td>Jessica Kendricks</td>
<td>University of Arizona</td>
<td>“Evaluation of Fall Patients’ Enrollment in &quot;A Matter of Balance””</td>
<td>Tawab Saljuqi, MD, MPH, DrPH(Surgery)</td>
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<td>103</td>
<td>Cesar Roldan</td>
<td>University of Arizona</td>
<td>“Organizational Health Literacy: Literature Review”</td>
<td>Tawab Saljuqi, MD, MPH, DrPH(Surgery)</td>
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<td>BLAISER/FRONTERA Summer Internship</td>
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<td>104</td>
<td>Ebani Acedo</td>
<td>Arizona State University</td>
<td>“Inhibition of E2F1 Attenuating Pulmonary Hypertension (PH) In Rats.”</td>
<td>Dan Yi, PhD &amp; Zhiyu Dai, PhD, FAHA (Internal Medicine)</td>
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<td>105</td>
<td>Astrid Acosta</td>
<td>Physiology &amp; Medical Sciences at University of Arizona</td>
<td>“Sociodemographic Factors and Health Disparities Associated with the Prevalence of Extracranial Carotid Atherosclerotic Disease in the American Indian populations”</td>
<td>Craiq Weinkauf, MD, PhD (Vascular Surgery)</td>
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<td>106</td>
<td>Glory Adeyemo</td>
<td>Physiology &amp; Medical Sciences at University of Arizona</td>
<td>“Understanding the Risk of Adverse Birth Outcomes in Advanced Maternal Age”</td>
<td>Elise Erickson, PhD, CNM, FACNM (Nursing)</td>
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<td>107</td>
<td>Alhamzah Al Jubouri</td>
<td>Biology at Arizona State University</td>
<td>“The Benefits of a Diverse Healthcare Workforce on Care Delivery for Diverse Patient Populations”</td>
<td>Alejandra Zapien-Hidalgo, MD, MPH (OEDI Summer Program (BLAISER/FrontERA))</td>
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<td>108</td>
<td>Anika Attaluri</td>
<td>1. Biomedical Engineering 2. Global Health at Arizona State University</td>
<td>“Unraveling the Hispanic Paradox: A Case-Control Study Exploring the Mechanisms of Pulmonary Hypertension in Hispanic Populations”</td>
<td>Franz Rischard, DO (Pulmonary and Critical Care and Translational and Regenerative Medicine)</td>
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<td>109</td>
<td>Ayda Bayati</td>
<td>Medical Studies at Arizona State University</td>
<td>“The Impact of Pollution on Upper Respiratory Disease”</td>
<td>Tara Carr, MD (Allergy and Immunology)</td>
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<td>110</td>
<td>Yanely Bolanos</td>
<td>Biochemistry at University of Arizona</td>
<td>“Targeting SELPLG/P-selectin glycoprotein ligand 1 in preclinical ARDS: Genetic and epigenetic regulation of the SELPLG promoter”</td>
<td>Christian Bime, MD, MSc &amp; Xiaoguang Sun, MD, PhD (Medicine)</td>
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<td>111</td>
<td>Monica Brody-D'Urso</td>
<td>Medicine: Integrative and Practice Focused Medicine emphasis at University of Arizona</td>
<td>“High Flow Nasal Cannula in the Management of Rib Fracture: Does it Hold Up to Scrutiny?”</td>
<td>Joseph Bellal, MD, FACS &amp; Hosseinpour Hamidreza, MD, Postdoc (Surgery and Trauma)</td>
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<td>112</td>
<td>Brianna Brown</td>
<td>Public Health: Health Promotion emphasis at University of Arizona</td>
<td>“Theraplay with Children at U.S and Mexico Border: A Pilot Study”</td>
<td>Julia Jernberg, MD (Medicine)</td>
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<td>113</td>
<td>Ezdna Cazares</td>
<td>Nursing at University of Arizona</td>
<td>“The effects of midwife shortage in Arizona”</td>
<td>Timothy Sowicz, PhD (Nursing)</td>
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| 114 | **Victor Chiquete**  
Neuroscience: Neurobiology emphasis at University of Arizona  
“Habitual Dietary Quality Associated with Habitual Sleep Duration, Insomnia, Daytime Sleepiness, and Fatigue in a Community Sample”  
Mentored by Michael Grandner, PhD, MTR, CBSM, FAASM (Psychiatry) |
|---|---|
| 115 | **Ylia Chuffe**  
Biochemistry at University of Arizona  
“Assessing UV blue light efficacy in predicting Pseudomonas aeruginosa infections in complex trauma wounds”  
Mentored by Lourdes Castañón, MD, FACS (Surgery, Trauma, Surgical Critical Care, Burns, and Acute Care Surgery) |
| 116 | **Samara Cuevas**  
1. Physiology & Medical Sciences 2. Nutritional Sciences at University of Arizona  
“Training/Credentials of Individuals Who Deliver CBT-I to Cancer Survivors: A Literature Review”  
Mentored by Rina S. Fox, PhD (Psychology) |
| 117 | **Jayla Curtis**  
Medical Studies at Arizona State University  
“Cancer Navigation and Screening Intervention with Indigenous Women Who Have IDD”  
Mentored by Julie Armin, PhD (Family and Community Medicine) |
| 118 | **Hanna Deller**  
1. Biology 2. Gender, Sexuality, and Women's Studies at Virginia Commonwealth University  
“SAFE” Student Awareness of Fentanyl Education”  
Mentored by Todd Vanderah, PhD & Allison Huff, DHEd (Pharmacology and Family and Community Medicine) |
| 119 | **Sarah Deller**  
Public Health Sciences at University of California, Irvine  
“HIV Acceptance Amongst Patients of the University of Arizona Mobile Health Unit”  
Mentored by Sheila Soto, DrPH (Public Health and Practice, Policy, & Translational Research) |
| 120 | **Nevaeh Esquivel**  
Physiology & Medical Sciences at University of Arizona  
“Inferring Ancestry Using Next-Generation Sequencing To Have A More Accurate Assay About How Genetic Variation Affects Gene Expression In An Admixed Population”  
Mentored by Darren Cusanovich, PhD & Jiacheng Ding, PhD Candidate (Cellular & Molecular Medicine) |
| 121 | **Esther Esquivel**  
Physiology & Medical Sciences at University of Arizona  
“INFERRING ANCESTRY USING NEXT-GENERATION SEQUENCING TO HAVE A MORE ACCURATE ASSAY ABOUT HOW GENETIC VARIATION AFFECTS GENE EXPRESSION IN AN ADMIXED POPULATION”  
Mentored by Darren Cusanovich, PhD (Cellular & Molecular Medicine) |
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<td>122</td>
<td>Asiya Falak</td>
<td>1. Biological Sciences 2. Computer Science at Arizona State University  “Characterizing Interactions between Vaginal Microbiota and Metabolic Pathways in Patients with Endometrial Cancer” Mentored by Melissa Herbst-Kralovetz, PhD (Basic Medical Sciences and Obstetrics &amp; Gynecology)</td>
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<td>123</td>
<td>Ana Fernandez</td>
<td>Medicine at University of Arizona  “Primary Mucinous Adenocarcinoma of the Renal Pelvis: Case Report and Review of the Literature” Mentored by Alejandro Recio Boiles, MD, FACP &amp; Irasema Fonseca Gonzalez, 4th year medical student (Clinical and Translational Oncology)</td>
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<td>125</td>
<td>Karla Fonseca Pardo</td>
<td>Medical Microbiology at Arizona State University  “Effect of Tumor Suppressor ING4 on Cell Proliferation and Morphology in non-MYCN amplified Neuroblastoma” Mentored by Suwon Kim, PhD &amp; Emily Tsutsumi, PhD (Breast Cancer Genetics Lab)</td>
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<td>126</td>
<td>Airen Fortunato</td>
<td>Neuroscience &amp; Cognitive Science at University of Arizona  “Efficacy of inhibitors of SARS-CoV-2 RNA Polymerase Subunits” Mentored by Prashant Kumar, PhD (Pharmacology &amp; Toxicology and Pharmacy)</td>
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<td>127</td>
<td>Sofia Garber</td>
<td>Physiology &amp; Medical Sciences at University of Arizona  “Disparities in Bed and Wake Times in the US Population Associated with Typical Work Hours” Mentored by Michael Grandner, PhD, MTR, CBSM, FAASM (Psychiatry)</td>
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<td>129</td>
<td>Miracle Hall</td>
<td>Neuroscience at Arizona State University  “Diving into the etiology and ongoing symptoms of long Covid (PASC)” Mentored by Karen Lutrick, PhD, MS (Family and Community Medicine)</td>
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<td>130</td>
<td>Breanne Harvey</td>
<td>Public Health: Health Promotion emphasis at University of Arizona  “AN INDIGENOUS DATA GOVERNANCE APPROACH FOR ENHANCING ETHICAL RESEARCH POLICIES AND PRACTICES” Mentored by Stephanie Carroll, DrPH, MPH, Ibrahim Garba, MA, JD, SJD, &amp; Adam Fernandez, Graduate Scholar (Community, Environment &amp; Policy Department and Native Nations Institute)</td>
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<td>131</td>
<td>Kathryn Hurst</td>
<td>Public Health: Quantitative Methods emphasis at University of Arizona</td>
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<td>Jacob Lasher</td>
<td>Physiology at University of Arizona</td>
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<td>Scarlett Leon</td>
<td>Microbiology at University of Arizona</td>
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<td>Jonathan Lugo</td>
<td>1. Physiology 2. Nutritional Sciences at University of Arizona</td>
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<td>Stephany Maldonado</td>
<td>Biomedical Sciences at University of Arizona</td>
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<td>Abigail Martinez</td>
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<td>Jeffrey Mosqueira</td>
<td>Physiology: Medical Sciences emphasis at University of Arizona</td>
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<td>Trinh Nguyen</td>
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<td>Amy Noriega Pineda</td>
<td>Psychology at Arizona State University</td>
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<td>Rotimi Odeneye</td>
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<td>Mariella Rodriguez</td>
<td>Public Health at University of Arizona</td>
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<td>Luis Saucedo</td>
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<td>144</td>
<td>Yesenia Siemens</td>
<td>Biological Sciences</td>
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<td>James Silva</td>
<td>1. Biomedical Sciences 2. Neuroscience at Arizona State University</td>
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<td>Raven Stephenson</td>
<td>Biology: Biomedical emphasis at University of Arizona</td>
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<td>Fawaz Stipho</td>
<td>1. Physiology &amp; Medical Sciences 2. Psychology at University of Arizona</td>
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<tr>
<td>149</td>
<td>Esperanza Valencia</td>
<td>Psychological Sciences at University of Arizona</td>
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|   | **Priscilla Villalobos Ixcotoyac**  
|   | 1. Biological Sciences 2. Global Health at Arizona State University  
|   | “Reducing At-Risk Community Disparities: SARS-CoV-2 Point of Care Vaccination Strategy for Respiratory Illnesses”  
|   | Mentored by Christina Berquin, MD, FHM (Internal Medicine) |
|   | **Joshua Warren**  
|   | Medical Studies at Arizona State University  
|   | “SGK1 is a Key Mediator of Pathological Cardiac Fibrosis”  
|   | Mentored by Erik Blackwood, PhD & Alina S. Bilal, MS (Translational Cardiovascular Research Center) |
|   | **Noah Weaver**  
|   | 1. Physiology & Medical Sciences 2. Public Health at University of Arizona  
|   | “Differences in Cardiovascular Function in Children with Down Syndrome during Swim Exercise”  
|   | Mentored by Jamie Edgin, PhD & Luongo Alison, PhD Candidate (Psychology) |
|   | **Hasan Al Saeedi**  
|   | Computer Science at Oakton Community College  
|   | “Physical Integrity Verification of Vehicle-to-Vehicle Navigation Messages for Connected Autonomous Systems”  
|   | Mentored by Dr. Loukas Lazos (Electrical & Computer Engineering) |
|   | **Kyle McIlwince**  
|   | Mechanical Engineering at University of Arizona  
|   | “Physical Integrity Verification of Vehicle-to-Vehicle Navigation Messages for Connected Autonomous Systems”  
|   | Mentored by Dr. Loukas Lazos (Electrical & Computer Engineering) |
|   | **John Dominguez-Trujillo**  
|   | Mechanical Engineering at University of Arizona  
|   | Mentored by Dr. Loukas Lazos (Electrical & Computer Engineering) |
|   | **Adhith Karthikeyan**  
|   | Computer Science at University of California, Riverside  
|   | Mentored by Dr. Loukas Lazos (Electrical & Computer Engineering) |
|   | **Max Kuhlman**  
|   | Electrical and Computer Engineering at Rice University  
|   | Mentored by Dr. Loukas Lazos (Electrical & Computer Engineering) |
|   | **Chaz Allegra**  
|   | Electrical and Computer Engineering at Rowan University  
|   | “Pay Attention to Features: A Hybrid Deep Learning Architecture for Continuous Lane Segmentation”  
|   | Mentored by Dr. Loukas Lazos (Electrical & Computer Engineering) |
|   | **Tristan Daniel**  
|   | Computer Science at Troy University  
|   | “Pay Attention to Features: A Hybrid Deep Learning Architecture for Continuous Lane Segmentation”  
|   | Mentored by Dr. Loukas Lazos (Electrical & Computer Engineering) |
| 163 | Megan Stinefield  
Computer Science at Ball State University  
“Pay Attention to Features: A Hybrid Deep Learning Architecture for Continuous Lane Segmentation”  
Mentored by Dr. Loukas Lazos (Electrical & Computer Engineering) |