From admission to graduation, the units of the Office of Undergraduate Studies at the University of Utah provide every student with an exceptional educational experience that empowers them to lead transformational lives wherever their educational and professional futures take them.
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Message from Associate Dean Annie Isabel Fukushima

If there is one way to summarize this past year of undergraduate research activities and programming at the University of Utah, it is that undergraduate research at the U is contributing to the role of higher education as a public good. Student projects contributed to addressing social inequities, resolving to solve medical problems, engaging with the science of environmental issues to those beyond this planet, to even, participating in studies that are providing engineering solutions from biological to the technological and mechanical. The research our students are contributing to as part of research teams of a couple to many, are truly exciting, innovating for our future, and solving major societal problems. Not only does undergraduate research enhance the role of the university to publics, but it also furthers our institutional mission to fostering an exceptional educational experience. As an R1 institution, the U is uniquely positioned to facilitate research opportunities with award-winning faculty and researchers. As our students graduate, they become ambassadors of the university.

A special thanks to our donors and supporters: the Office of the Vice President for Research, the Dee Foundation, the Francis Family Fund, Parent Fund, the Monson Family Fund, Roger Leland Goudie Trust, individual donors who gave during Giving Day, and the faculty, staff and students who participate in OUR's programs and activities.

It is truly inspiring to look back on our history, where we began as a program in 1987, and have since grown into a robust office that is supporting the research enterprise at the U. This annual report provides a narrative of the programs and activities from 2022 – 2023.

Annie Isabel Fukushima, Ph.D.
Associate Dean, Undergraduate Studies
Director, Office of Undergraduate Research

OUR Mission

The mission of the University of Utah Office of Undergraduate Research is to facilitate and promote undergraduate student-faculty collaborative research and creative works in all disciplines throughout the University of Utah campus through equitable programming, diverse representation, and social justice.

OUR Team

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annie Isabel Fukushima</td>
<td>Associate Dean, Undergraduate Studies</td>
</tr>
<tr>
<td>Cindy Greaves</td>
<td>Associate Director</td>
</tr>
<tr>
<td>Angie Leiva</td>
<td>Academic Program Manager</td>
</tr>
<tr>
<td>Shelly Parker</td>
<td>Program Manager</td>
</tr>
<tr>
<td>Jude Ruelas</td>
<td>Outreach Coordinator</td>
</tr>
</tbody>
</table>
Data in Brief 2022-2023

- **611 Students Funded**
  - 1,023 students applications for UROP, SPUR, Scholarships, Travel and Small Grants

- **159 Students Recognized**
  - through the OUR Awards and URSD
  - 16 mentors recognized

- **1,260 Student Presenters**
  - in URS, ROCH, UCUR, NCUR and Sponsored Symposia

- **223 Students Published**
  - in RANGE: Undergraduate Research Journal

- **4,367 Education Series Attendees**

- **428 Students received Research Advising**
  - from Peer-Mentors and Staff Connections

- **423 Research Mentors**
  - Faculty and Graduate Students

- **4,847 People reached In-person**

- **178,857 People outreached on Social Media**

- **190,527 Visitors to the OUR Website**
OUR 2023-2024 Goals

Data-Informed Decisions

- During the 2022-2023 academic year, OUR worked with data and analytics to interpret and understand populations supported by OUR and interacting with program activities. For 2023-2024, OUR has initiated Institutional Review Board processes, and will implement a campus-wide research evaluation of undergraduate research at the University of Utah.

Grow Research Inclusion

- OUR will grow diversity in early access to undergraduate research opportunities at the University of Utah through the launch of the Early Exploration Scholars Program in Fall 2023. This program will foster earlier interest in research for students in the first 60 credits of their academics.

- OUR will continue to apply for research funding to diversify how undergraduate students are supported through external grants and donations.

Strengthen Mentoring Partnerships & Collaboration

- OUR will grow the number of grants and increase partnership support for external grants.

- OUR will create an undergraduate research advisory council.
OBJECTIVE 01
Enhancing the Teaching, Learning, Research, and Innovation Environments

Grants and Awards
- Undergraduate Research Opportunities Program (UROP)
- Summer Program for Undergraduate Research (SPUR)
- Small and Travel Grants
- Scholarships

OUR enhances the teaching, learning, research, and innovation environments by funding undergraduate researchers to work with a faculty mentor. During the 2022-2023 academic year, OUR funded 611 undergraduate researchers at the University of Utah.

Recognition of Undergraduate Research Excellence
- Outstanding Undergraduate Researcher Awards (OURA) Ceremony
- Undergraduate Research Scholar Designation

In pursuit of excellence, we recognize outstanding undergraduate researchers during an annual awards ceremony that comprises of recognizing the Outstanding Undergraduate Researcher Awardees, Outstanding Undergraduate Research Mentor Awardees, and scholars funded by OUR in partnership with our donors of the Dee Foundation, the Francis Family Fund, and the Parent Fund. 140 students earned an Undergraduate Research Scholar Designation in their transcript.

Peer Mentoring and Staff Support
- Funding Fridays
- IRB Lab
- Research Advising Appointments

OUR provides research advising to students at all stages of their research journey with 428 students receiving peer and staff research advising.
Support Faculty and Student Collaborations
- Summer Program Partnerships
- OUR Program Partners
- Faculty Affiliates

Central to OUR activities and programming: supporting faculty and student partnerships.

Research Education
- Undergraduate Research Education Series (URES)

The learning environment is further enhanced with educational opportunities through the Undergraduate Research Education Series where 4,367 students attended the OUR education series (2022-2023).

Dissemination of Knowledge Through Publication and Presentations
- Undergraduate Research Symposia (URS)
- Research on Capitol Hill (ROCH)
- Utah Conference on Undergraduate Research (UCUR)
- National Conference on Undergraduate Research (NCUR)
- Sponsored Conferences
- Range: Undergraduate Research Journal

OUR fosters research innovation and dissemination through facilitating and supporting publication and student presentations. The office organizes an Undergraduate Research Symposium every semester (Summer 2022-in-person; Fall 2022-virtual; Spring 2023-virtual) and collaborates with the U’s Government & Relations office and Utah State University to host Research Day on Capitol Hill. OUR also organized the statewide Utah Conference on Undergraduate Research (UCUR) and supported students with presentations at the National Conference on Undergraduate Research (NCUR). This year 1,260 students were supported with presenting their research and 223 entries were published in the RANGE: Undergraduate Research Journal including abstracts, articles, and research reflections.
Grants and Awards

Between 2022 and 2023, the Office of Undergraduate Research awarded 611 awards and scholarships to student researchers with Undergraduate Research Opportunity Program (UROP), Summer Program for Undergraduate Research (SPUR), travel and small grants, and scholarships.

Undergraduate researchers funded by OUR represent a diversity of majors. These majors represent research fostering civic responsibility and quality of life for Utahns, including STEM fields, health and medicine research, research on global issues, research on equity and diversity, and research in environmental studies.
Undergraduate Research Opportunity Program (UROP)

Undergraduate Research Opportunity Programs have a long history in the US, with the first UROP established at the Massachusetts Institute of Technology (MIT) in 1969¹. A model program, UROPs may be found across the US including at the University of Utah which was established in 1987. UROP student researchers work with faculty mentors, where 16 colleges participate in mentoring scholars. In 2022-2023, 500 UROP scholars received a $1,200 stipend for their research experience. UROP scholars experienced programming wrapped around them that included OUR’s education series (workshops and educational content) and opportunities to present their findings. UROP scholars successfully met OUR learning objectives by working collaboratively, identifying appropriate methodologies, utilizing previous research, effectively presenting research, articulating research questions, meeting discipline standards for responsible research and reflecting on research. We are proud to share the positive outcomes of UROP scholars. For 2022-2023, OUR grew the number of UROP scholars awarded by 3.5%.

500 UROP SCHOLARS
583 UROP applicants

“I think participating in undergraduate research has given me the chance to hone my writing skills, learn more about data analysis techniques, and revealed that no matter how outlined your timeline may be going into a project, it is natural to have other things come up in life—and with the project itself—that could slow things down, or even speed things up. After having almost completed a semester of UROP, I have been confirmed in my interest in education, medicine, and being an advocate for diversity, equity and inclusion in my future occupation.”

- UROP Scholar, Senior Health, Society and Policy

“My research experience has given me firsthand experience in the field I’ve been pursuing during my undergrad so far, which has only emboldened my decision to continue working towards it since I know how much I enjoy it now. I’ve gotten to learn things that I wouldn’t have thought to seek out otherwise, and delved into topics that I hadn’t considered before. Experiencing the thrill of working towards potentially discovering something new about the universe has been a joy like no other, and I’ll do it for as long as I can.”

- UROP Scholar, Junior Physics, Geoscience

“Overall, I feel significantly more confident in my general organizational abilities. My goal of pursuing research which carves out space for disabled game developers and smooths out the transition from student to industry professional has never felt more concrete. My experience with UROP has bridged a gap I have worried about since I began my undergraduate career: the gap between conceptualizing and realizing dreams.”

- UROP Scholar, Senior Games

¹ For more information, visit http://www.cur.org/assets/1/7/CURQOTWV331.pdf
UROP Successful Learning Outcomes

OUR's UROP is successful because of the learning outcomes demonstrated by participants. This data is collected every semester in a close-out report submitted by participants and their faculty mentors.

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Skill Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UROP SCHOLARS AGREE</strong></td>
<td>because of the research experiences, they can:</td>
</tr>
<tr>
<td>94%</td>
<td>Work collaboratively and effectively communicate with other researchers</td>
</tr>
<tr>
<td>98%</td>
<td>Identify appropriate methodologies</td>
</tr>
<tr>
<td>98%</td>
<td>Identify &amp; utilize previous research</td>
</tr>
<tr>
<td>97%</td>
<td>Articulate a research question or creative objective</td>
</tr>
<tr>
<td>97%</td>
<td>Meet the field’s standard for responsible conduct in research</td>
</tr>
<tr>
<td>97%</td>
<td>Reflect on research and make future plans because of this experience</td>
</tr>
<tr>
<td>85%</td>
<td>Effectively present research</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>431 Students completed the Closing Report</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Skill Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UROP MENTORS AGREE</strong></td>
<td>because of the research experiences, their mentees are able to:</td>
</tr>
<tr>
<td>98%</td>
<td>Work collaboratively and effectively communicate with other researchers</td>
</tr>
<tr>
<td>98%</td>
<td>Identify appropriate methodologies</td>
</tr>
<tr>
<td>98%</td>
<td>Identify &amp; utilize previous research</td>
</tr>
<tr>
<td>98%</td>
<td>Effectively present research</td>
</tr>
<tr>
<td>98%</td>
<td>Articulate a research question or creative objective</td>
</tr>
<tr>
<td>98%</td>
<td>Meet the field’s standard for responsible conduct in research</td>
</tr>
<tr>
<td>96%</td>
<td>Reflect on research and make future plans based on their experiences</td>
</tr>
<tr>
<td>82%</td>
<td>Effectively present research</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>83 Mentors completed the Closing Report</td>
</tr>
</tbody>
</table>

Likert Scale self-reporting: Strongly Disagree to Strongly Agree
Summer Program for Undergraduate Research (SPUR)

Summer Program for Undergraduate Research provides students with competitive summer research opportunities where students are paid for ten weeks to immerse into full-time summer experiences with a faculty mentor. Students come from across the United States. Students participating in SPUR successfully acquire OUR learning objectives where they are able to articulate a research question or creative objective; identify appropriate methodologies; identify & utilize previous research; meet the fields standard for responsible conduct in research; work collaboratively with other researchers; effectively present research and make future plans because of this experience. To successfully support Summer Programs, OUR collaborates with campus partners.

Summer undergraduate research experiences are shown to have a positive impact on student identity in academics and positive outcomes for retention and persistence toward graduation. Additionally, summer undergraduate research experience sustains or confirms postgraduation decisions to go to graduate school, supporting a pipeline of undergraduate to graduate school.

13 Summer Program Partners

196 Students

161 Faculty

- The Beckman Scholars Program
- Chemistry Research Experience for Undergraduates (REU)
- Genomics Summer Research for Minorities (GSRM) Internship
- Native American Summer Research Internship (NARI)
- PathMaker Scholars Cancer Research Program
- Pathology Summer Program
- Physics & Astronomy REU
- Research Experiences to Advance the Careers of HBCU Undergraduates at the University of Utah (REACH U2) in Health Disparities Research
- Research Experience in ALpine Meteorology (REALM) REU
- Research Experience in Utah for Sustainable Materials Engineering (ReUSE) REU
- RUUTE Summer Undergraduate Research Experience (SURE)
- Summer Program for Undergraduate Research (SPUR)
- Summer Undergraduate Research Internship in Pharmaceutics and Drug Delivery

“My experience in the SPUR program has felt very well-rounded and has taught me a lot about how to conduct research and how to relay my findings to peers and professionals inside and outside of my field of study in an effective manner. I enjoyed learning from different speakers in the URES sessions and felt that it broadened my perspectives on various topics throughout the summer. I also enjoyed getting to know the other SPUR students and learn about the wide variety of research projects they were participating in. My goals in the future are to attend medical school and become a physician practicing both patient care and conducting research. This program has not only allowed me to enhance my skills in a laboratory setting, but also helped me grow into a more effective communicator, team-player, and presenter.”

– SPUR Scholar, Biochemistry

38 SPUR Scholars

330 SPUR Applicants


SPUR: Excelling in Learning Achievement

OUR's SPUR is successful because of the learning outcomes demonstrated by participants. Participants (Mentors and mentees) submit a closing report after the end of the summer experience.

SPUR SCHOLARS AGREE because of the research experiences, they can:

94% Identify appropriate methodologies
100% Identify & utilize previous research
94% Effectively present research
89% Work collaboratively and effectively communicate with other researchers
92% Articulate a research question or creative objective
97% Meet the field’s standard for responsible conduct in research
94% Reflect on research and make future plans based on their experiences

38 Students completed the Closing Report
Total of 38 SPUR Mentees 2022

100% SPUR MENTORS AGREE because of the research experiences, their mentees are able to:

- Articulate a research question or creative objective
- Identify appropriate methodologies
- Identify & utilize previous research
- Meet the fields standard for responsible conduct in research
- Work collaboratively with other researchers
- Effectively present research
- Make future plans because of this experience

37% Mentors completed the Closing Report
Total of 38 SPUR Mentors 2022

Likert Scale self-reporting: Strongly Disagree to Strongly Agree
Travel and Small Grants

OUR recognizes that essential to supporting undergraduate research is providing students with opportunities to travel to research sites, present at national or international conferences, and have resources to assist with research costs. Defraying the costs associated with research networking and research itself, is a central way to break inequities in research. Every month OUR reviews student applications for travel and small grants. In collaboration with student evaluators (the Undergraduate Research Leaders), OUR funds students for travel and small grants of $500. Travel & Small grants was supported by the Ivory Foundation. OUR grew the number of travel and small grants awarded for 2022-2023 by 8%.

“This experience felt like the kickstart I needed to continue my degree and feel hopeful for my professional future. I suffer from severe imposter syndrome and anxiety, and I was incredibly nervous about attending a research conference for the first time, let alone presenting my own work. However, I gained confidence in myself after my presentation, and I will never forget the encouragement and praise I received from professionals and my mentor. I feel confident continuing my research and working on my honors thesis, and it was the motivation I needed! I found myself even more fascinated with mining and metallurgical engineering, specifically. I am now strongly considering pursuing my doctorate in metallurgical engineering instead of material science.”

– OUR Travel Grant Recipient, Chemistry

“My undergraduate research experience has been nothing short of great. I never really planned on doing research, but now since I have been given the opportunity to do so, it has changed so much for me. I now can see continuing in research as a career path. It has helped me grow my lab skills, my public speaking skills, and now even made me a more well versed traveler.”

– OUR Travel Grant Recipient, Environmental & Sustainability Studies

4 For more information, visit https://www.lifescied.org/doi/full/10.1187/cbe.19-11-0262
Scholarships

OUR is successful because of the donors supporting our scholarships. For the 2022-2023 year, OUR awarded 21 students scholarships. Undergraduate Studies OUR is supported through a variety of state and private funds. Donors include the Lawrence T. Dee and Janet T. Dee Foundation, Francis Family Foundation, and the Parent Fund. The Monson Family Fund supports the Monson Essay Prize. OUR recognized our generous donors and supporters during the Outstanding Undergraduate Research Award Ceremony on April 3, 2023.

Francis Family Fund Scholarship

The John A. and Irene F. Francis Endowment Fund was established by John A. Francis in memory of his wife, Irene F. Francis, and to acknowledge the work of his son, John G. Francis, professor of political science at the University of Utah. The Francis Endowment Fund recognizes outstanding undergraduate researchers in the arts, social sciences, and the humanities.

- Kailee Ferret (Mentor: Leslie Francis, Law)
- McKenna Hunt (Mentor: Sudha Jayaraman, Medicine)
- Callie Avondet (Mentor: Sara Grineski, Social & Behavioral Science)
- Aidyn Eldredge (Mentor: Timothy Webster, Social & Behavioral Science)
- Hailey Hollins (Mentor: James Gagnon, Science)
- Raina Miller (Mentor: Moriel Zelikowsky, Neurobiology)
- Kimberly Ponce Gonzalez (Mentor: Katherine Supiano, Nursing)
- Hunter Carlson (Mentor: Jesse Christensen, Health)

Dee Foundation Scholarship

The Lawrence T. Dee and Janet T. Dee Foundation was established by Lawrence Taylor and Janet Teller Dee in 1971 for the purpose of promoting charitable activities in Ogden and the surrounding area. It remains a family foundation dedicated to furthering the growth and well-being of the people of northern Utah.

- Ava Peitz (Mentor: Ming Hammond, Science)
- Kayleigh Kirkpatrick (Mentor: Kaedan O'Brien, Social & Behavioral Science)
- Sabrina Su (Mentor: Jay Kim, Engineering)
- Tessa Petersell (Mentor: Peter Fino, Health)
- Erin Garzella (Mentor: Tracey Lamb, Medicine)
- Derrick Wong (Mentor: Yong Kong, Engineering)
- Nathanael Hooper (Mentor: Dustin Williams, Medicine)
- Mickenzie Fleming (Mentor: Aaron Fischer, Education)
Parent Fund Scholarship

The Parent Fund is sustained by parents and supports student-centered programs and initiatives. The Parent Fund plays an integral role in the University of Utah’s ability to provide students with exceptional opportunities inside and outside the classroom.

- Sonia Osuna (Mentor: Peter West, Pharmacy)
- Sophie Stephens (Mentor: Sihem Boudina, Health)
- D. Christian Furness (Mentor: John Longino, Science)
- Adriana Payan-Medina (Mentor: Ramkiran Gouripeddi, Medicine)

Monson Prize

The Charles H. Monson Essay Prize honors Charles H. Monson Jr., a distinguished member of the University Philosophy Department from 1958 to 1974. Professor Monson earned both his bachelor’s and master’s degrees from the University of Utah and received his Ph.D. from Cornell University. During his years at the university, he served as chair of the Philosophy Department and Associate Vice President for Academic Affairs. He received the University’s Distinguished Teaching Award in 1970. In his honor, an annual prize is awarded to an undergraduate who writes an outstanding paper on a subject having to do with social change (the application includes submission of an original piece of work that is 5-20 pages in length).

2023 Monson Prize Awardee

Malea Bauer (Mentor: Amos Guiora, School of Law)
SILENCE IS VIOLENCE: A NATIONAL LEGISLATIVE PROPOSAL FOR THE CRIMINALIZATION OF THE ENABLER TO INSTITUTIONAL ABUSE

“For centuries, institutions have exploited their power to abuse the vulnerable and avoid culpability. In many cases, the abuse would not have been possible if not for the institutional underpinnings which protect the perpetrators. These people, who initiate cover ups or turn a blind eye, ought to be considered enablers. Enablers are as endemic a problem as perpetrators. This thesis advocates for establishing a federal duty to protect between members of institutions and the victims of institutional abuse. The proposed legislation defines an institutional duty to protect and criminalizes the actions or inactions of enablers that can be directly linked to continued abuse of the victims.”

- Malea Bauer, Monson Prize Awardee 2023
Recognition

Outstanding Undergraduate Researcher and Research Mentor Awards

Every year, the OUR Awards Ceremony recognizes undergraduate student researchers in partnerships with the university colleges across campus. For the 2023 awards ceremony held on April 3, OUR inaugurated the Outstanding Undergraduate Research Mentor Award. A total of 27 individuals received awards. The OUR Mentor Awards are presented to faculty mentors who embody excellence in mentoring undergraduate researchers. The Outstanding Undergraduate Research Awardee is awarded to student researchers who represent sustained engagement with research and contributions to a positive research culture. Awardees are selected by their college leadership and committees, with the awards provided by OUR. Faculty and student recognition is a central facet of fostering a positive research culture.

19 STUDENTS RECOGNIZED

16 COLLEGES & SCHOOLS

16 MENTORS RECOGNIZED
2023 Outstanding Undergraduate Researchers

Charlotte Garris (Mentor: Professor Keith Bartholomew)
College of Architecture & Planning

Ryan McBride (Mentor: Professor Vandana Ramachandran)
School of Business

Natalia Garrido (Mentor: Professor Claudia Geist)
School for Cultural & Social Transformation

Eliza Diggins (Mentor: Professor Melodie Weller)
School of Dentistry

Tessa Cahoon (Mentor: Professor Mary Burbank)
College of Education

Adriana Payan-Medina (Mentors: Professor Julio C. Facelli, Professor Ramkiran Gouripeddi)
College of Engineering

Michael Alessandro Keyser (Mentor: Professor Pierre-Emmanuel Gaillardron)
College of Engineering

Lauren Carn (Mentor: Professor Lynn Deboeck)
College of Fine Arts

Elena Yee (Mentor: Professor Micah Drummond)
College of Health

Katie Sanyal (Mentor: Professor Michael Gills)
Honors College

Eliana Massey (Mentor: Professor Matthew Basso)
College of Humanities

Samuel Hendry (Mentor: Professor Matthew Mulvey)
School of Medicine

Nancy Sohlberg (Mentor: Professor Gannet Hallar)
College of Mines & Earth Sciences

Sydney Gilliland (Mentor: Professor Lauri Linder)
College of Nursing

Oliver Hubbard (Mentor: Professor Hamid Ghandehari)
College of Pharmacy

Alison Wang (Mentor: Professor Caroline Saouma)
College of Science

Yexalen Barrera-Casas (Mentor: Professor Michael Morse)
College of Science

Shaistah Din (Mentor: Professor Marissa Deiner)
College of Social & Behavioral Science

Camden Alexander (Mentor: Sara Grineski)
College of Social & Behavioral Science

2023 Outstanding Undergraduate Researcher Mentors

Sarah Hinners, Ph.D.
College of Architecture & Planning

Vandana Ramachandran, Ph.D.
School of Business

Annie Isabel Fukushima, Ph.D.
School for Cultural & Social Transformation

Melodie Weller, Ph.D.
School of Dentistry

Professor Mary D. Burbank
School of Education

Cynthia Furse, Ph.D.
College of Engineering

Professor Alexandra Harbold
College of Fine Arts

J. David Symons, Ph.D.
College of Health

Michael Gills, Ph.D.
Honors College

Rachel Hayes-Harb, Ph.D.
College of Humanities

Yan-Ting Shiu, Ph.D.
School of Medicine

Gannet Hallar, Ph.D.
College of Mines & Earth Sciences

Lauri Linder, Ph.D., APRN, CPON, FAAN, FAPHON
College of Nursing

Amy M. Barrios, Ph.D.
College of Pharmacy

Ofer Rog, Ph.D.
College of Science

Sara Elizabeth Grineski, Ph.D.
College of Social & Behavioral Science
The Undergraduate Research Designation was created during Fall 2006 to recognize undergraduate researchers engaging in sustained research for two semesters or more. The designation appears in a student’s transcript. The designation appears in the awards section of the transcripts for graduating students, where awardees receive research cords from the Office of Undergraduate Research to wear at convocation and commencement ceremony and are recognized during the commencement. One hundred forty students earned an Undergraduate Research Scholar Designation during the 2022-2023 academic year.

### Undergraduate Research Scholar Designation (URSD)

#### Summer 2022
- Habibo Abdi
- Sam Bagge
- Suhyun Hahm
- Al Ingold
- Simran Karim
- Carrie Marsh
- James McMahon
- Al Ingold
- Simran Karim
- Carrie Marsh
- James McMahon
- Azeem Mohammed
- Tara Tazehabadi
- Tessa Vu
- Anahi Yerman

#### Fall 2022
- Alexander Becraft
- Britney Chen
- Tony Chen
- Piper Christian
- Zach Eatough
- Adam Ford
- Loveleen Ghuman
- SuYeon Gwak
- Brian Hassard
- Marin Macfarlane
- Zach Mallender
- Eshan Narasipura
- Tara Olson
- Cody Page
- Katee Perez
- Mary Smith
- Matthew Snyder
- Jada Kali P. Stelmach
- Heba Sultan
- Gary Urry
- Breanna Wong
- Caleb Woolston
- Kathy Wright
- Alexandra Yengich

#### Spring 2023
- Ray Aljassimi
- Ruba Alraqibah
- Kara Andersen
- Elia Baker
- Yexalen Barrera-Casas
- Chloe Barry
- Bennett Blake
- Tessa Cahoon
- Hunter Carlson
- Lillee Casselman
- Tiffany Chan
- Joshua Chang
- Claire Cruz
- Jordan Davidson
- Lexi DeFord
- Sandra Del Rio Madrigal
- Shane Denherder
- Gabi Desjardins
- Gareema Dhiman
- Shaistah Din
- Tiffany Do
- Morrison Donovan
- Bailey Doucette
- Samantha Eddy
- Aidyin Eldredge
- Mary Fairbanks
- Maddie Festin
- Kenzie Fleming
- Ximena Franco
- Jordyn Gagon
- Gauri Garg
- Emil Geisler
- Sydney Gilliland
- Karah Hall
- Amy Harvey
- Josh Hillyard
- Lindi Hopkins
- McKenna Hunt
- Nate Iverson
- Jasmine Jacobo
- Cameron Jensen
- Anila Jonnavithula
- Samuel Judd

#### Fall 2023
- Sahar Kanishka
- Wona Kim
- Scott King
- Chloe Kraft
- Peter Krael
- Marissa Larkin
- Alyssa Lee
- Palmer Lee-Mesa
- Will Loxley
- Kitsel Lusted
- Steven Marz
- Corinna McMurtrey
- Melika Moeinvaziri
- Jamie Nakano
- Carter Niedert
- Lauren Page
- Ryan Park
- Adriana Payan-Medina
- Gary Perea
- Shaylie Platten
- Katya Podkovyrroff Lewis
- Kimberly Ponce Gonzalez
- Nizhoni Porter
- Shree Prakash
- Annie Pugmire
- Sarv Raafati
- Luis Ramirez
- Saul Rivera-Flores
- Talon Roberts
- Keaton Rosquist
- Catherine Rousculp
- Ana Rowe
- Dana Schiwal
- Emily Singer
- Brock Smith
- Jackie Smith
- Karrah Spendlove
- Sabrina Su
- Haley Tetzlaff
- Payton Thomas
- Ashley Thompson
- Macey Tilik
- Sarthak Tiwari
- Kacey Tollefson
- Melissa Tyszko
- Minahil Usman
- Mykie Valenzuela
- Caton Weinberger
- Marc Whiting
- Emi Wikens
- Derrick Wong
- Elaine Wong
- MacKenzie Woodrum
- Elena Yee
- Sierra Young
Central to OUR's philosophy is a multi-mentor model\(^5\) of faculty, staff, and peer support. Mentoring is a central part of integrating students into the institution\(^6\), and even, creates a sense of belonging. Mentors are central to socializing students into a research enterprise and also supporting professionalization.

OUR's student leaders are available to support their peers in applying for IRBs, funding through Funding Fridays, and facilitating workshops and office hours to support their peers on abstracts, presentations, and research opportunities. Staff and peer mentors assist students with questions about applying for funds, or how to finding research opportunities.

### Faculty and Student Collaborations

Faculty and graduate students support undergraduate research as research mentors. The OUR launched **OUR faculty affiliates** in 2022 as a way to recognize the many faculty mentors who support undergraduate students as research mentors across campus. As students participate in the research enterprise, their faculty mentors fulfill an important pedagogical role for student researchers, where much of the mentoring occurs outside of the classroom. 393 faculty were onboarded as faculty affiliates by 2023. Central to OUR's role at the U is creating a centralized place for students to find opportunities with award-winning and nationally recognized faculty. The OUR launched in the fall of 2022 a database for students to “find an opportunity,” also known as the “research database.” Opportunities posted in the database are then pushed out to social media and the link shared with faculty to share with their student networks.


Undergraduate Research Leaders: Peer-Mentors

Undergraduate research leaders serve as important ambassadors to a campus culture that fosters undergraduate research. Undergraduate Research Leaders table, provide classroom/group presentations, facilitate workshops, and provide research advising as peer-mentors. Specialist roles serve specific functions.

Community-Based Research Specialist coordinated feedback from University Neighborhood Partners on content creation on the website, and in the spring of 2022, the OUR launched a new segment of its website on Community Engaged Research for growing undergraduate research in communities. OUR piloted in the fall of 2022 a new drop-in and peer-support called the IRB Lab. This lab was a success where students received peer support on IRB applications, in consultation with the Institutional Review Board. Additionally, the student leader serves as a reviewer of IRB applications. The Publications and Research Publics Specialist supported the office with moving the journal, Range: Undergraduate Research Journal, from a website to utilizing Pressbooks through the Utah Education Network, and serves as the student editor for the journal. In the fall of 2022, the OUR also launched Funding Fridays, which operates as a drop-in weekly time for students to receive support with their UROP, SPUR, and Travel & Small Grant applications. Diversity in STEM research is central to OUR; therefore, the STEM Research Specialist assisted OUR’s associate dean with grant applications and also facilitated workshops to support students in STEM with abstract writing for conference submission to the Utah Conference on Undergraduate Research and SPUR.

Undergraduate Research Leaders 2022 - 2023

- Joshua Chang, Community-Based Research Specialist (2022-2023)
- Mary Fairbanks, Social Media Specialist (Fall 2022)
- Gauri Garg, IRB & Clinical Research Specialist (Fall 2021-Spring 2023)
- Eliana Massey, Publications & Research Publics Specialist (2022-Current)
- Melika Moeinvaziri, Diversity in Research Specialist (2022-2023)
- Ava Peitz, IRB Specialist (Spring 2023-Current)
- Sophie Stephens, Pre-Award Specialist (Fall 2022)
- Sarthak Tiwari, STEM Research (2022-2023)
- Emi Wickens, Research Evaluation (Spring 2022-Spring 2023)
Research Education and Educational Outreach

Education Series

The Education Series is seminal for providing supplemental content beyond the classroom. Intended to offer content outside of the classroom, students learn about a range of topics that enhance their understanding of research, dissemination, and collaboration. The first Undergraduate Research Education Series was hosted in Fall 2014. During Fall 2022, the OUR launched a new education series section of the website in partnership with University Marketing & Communications (UMC) to ensure ongoing accessibility of content and searchability. A total of 4,367 individuals attended OUR’s education series during the 2022-2023 academic year (live and on-demand). This was an astounding 144% growth in attendees.

966
LIVE / IN-PERSON
ATTENDEES

3,401
ON-DEMAND
ATTENDEES

EDUCATION SERIES TRACKS

17
Research Basics & Skill Building

9
Social Justice & Ethics

14
Research Collaboration & Communication

6
Careers & Research

29
TOTAL SESSIONS
Publishing and presenting research is a vital part of completing the research cycle. During 2022-2023 academic year, OUR supported 1,260 undergraduate research presentations in the semester-based Undergraduate Research Symposia, Utah Conference on Undergraduate Research, Research on Capitol Hill, and the National Conference on Undergraduate Research. To support student publications, OUR publishes student research in RANGE: Undergraduate Research Journal.

Undergraduate Research Symposium (URS)

Every semester, OUR hosts the Undergraduate Research Symposia (URS). The first Undergraduate Research Symposium was hosted during Spring 2004. URS provides an opportunity for University of Utah students to present their work in a scholarly setting to students, faculty, and other members of the U community. Undergraduate students from all disciplines at the University of Utah are invited to present their research and creative work. To sustain diverse participation, the symposium is offered for all three semesters: Summer 2022 (in-person), Fall 2022 (virtual), and Spring 2023 (virtual). During the summer symposium, VIP speakers and guests joined our conference including President Taylor Randall, Vice President for Research Erin Rothwell, and the former interim Provost Martell Teasley.

Additionally, OUR sponsors college and field-based symposia: SACNAS 2023 and College of Humanities 2023. 338 students at our and our partner symposia.

### Summer Symposium Presenters
- In-person presentations: 216

### Fall Symposium Presenters
- Virtual presentations: 41

### Spring Symposium Presenters
- In-person & virtual presentations: 482

1https://www.jstor.org/stable/10.2979/teachlearninqu.1.2.105?casa_token=nVhb4V4GxREAAAAA:OesvB5-9hMQidc_JauT__L1E9Lqs442pB_PBlP9oLETwH64maNM3FE0ejbpiOrghnmVy2EQDwBRhszxgnzFV-2p6PTA1Jd0Qo545aT2hAwg77CaZJ-3Jh
Symposium Poster Evaluation - Advancing Learning Outcomes

Every semester OUR hosts research symposia. Faculty, staff, and graduate students across the University of Utah campus serve as poster evaluators of the symposia.

**Summer & Fall 2022**

<table>
<thead>
<tr>
<th>Category</th>
<th>Presenters</th>
<th>Poster Evaluator</th>
<th>Poster Evaluations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify &amp; utilize previous research</td>
<td>482</td>
<td>108</td>
<td>524</td>
</tr>
<tr>
<td>Articulate a research question</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Identify appropriate methodologies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effectively present research</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Mastered**
- **In Process**
- **Early Stages**

Effectively present research

- Identify & utilize previous research
- Articulate a research question
- Identify appropriate methodologies
- Effectively present research

0.0 0.2 0.4 0.6 0.8 1.0

Early Stages

In Process

Mastered
Utah Conference on Undergraduate Research (UCUR)

The mission of the Utah Conference on Undergraduate Research (UCUR) is to promote undergraduate research, scholarship, and creative activity, done with the mentorship of a faculty member or others, through an annual conference. Undergraduate research is a high-impact educational practice - students who participate in research opportunities lead to positive outcomes with retention, graduation, and post-graduation decisions. Student presentations are welcome in all fields and disciplines from the creative and performing arts to biomedical, engineering, and social science research.

UCUR 2023 was co-chaired by Dr. Annie Isabel Fukushima, Cindy Greaves, and Megan Shannahan. The University of Utah hosted the state-wide conference, collaborating with University Marketing and Communications to create materials to promote the event held at the Alumni House, The Sterling Sill Center, and the Union. Six hundred thirty-nine students registered to present at the U. UCUR was supported by: Undergraduate Studies, Office of Undergraduate Research, Vice President for Research, College of Mines & Earth Sciences, Graduate School, J. Willard Marriott Library, Utah Museum of Fine Arts, and Utah System for Higher Education (USHE) partners: Brigham Young University, Salt Lake Community College, Snow College, Southern Utah University, Utah State University, Utah Tech University, Utah Valley University, Weber State University, Westminster College. The program was published with Press Books and a new searchable feature was created on the OUR website.

**10 INSTITUTIONS**

- Brigham Young University
- Salt Lake Community College
- Snow College
- Southern Utah University
- University of Utah
- Utah State University
- Utah Tech University
- Utah Valley University
- Weber State University
- Westminster College

**627 PRESENTERS**

**639 REGISTRANTS**

**100 POSTER EVALUATORS**

**102 VOLUNTEERS**
### STUDENT PRESENTATIONS

<table>
<thead>
<tr>
<th>INSTITUTION</th>
<th>Applied</th>
<th>Group Presentation</th>
<th>Registered</th>
<th>Registered</th>
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</thead>
<tbody>
<tr>
<td>Brigham Young University</td>
<td>162</td>
<td>134</td>
<td>189</td>
<td>17</td>
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<tr>
<td>Salt Lake Community College</td>
<td>6</td>
<td>2</td>
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<td>3</td>
</tr>
<tr>
<td>Snow College</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Southern Utah University</td>
<td>41</td>
<td>37</td>
<td>51</td>
<td>6</td>
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<tr>
<td>University of Utah</td>
<td>209</td>
<td>188</td>
<td>194</td>
<td>25</td>
</tr>
<tr>
<td>Utah State University</td>
<td>44</td>
<td>37</td>
<td>40</td>
<td>4</td>
</tr>
<tr>
<td>Utah Tech University</td>
<td>26</td>
<td>23</td>
<td>35</td>
<td>11</td>
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<tr>
<td>Utah Valley University</td>
<td>120</td>
<td>78</td>
<td>96</td>
<td>9</td>
</tr>
<tr>
<td>Weber State University</td>
<td>30</td>
<td>17</td>
<td>23</td>
<td>10</td>
</tr>
<tr>
<td>Westminster College</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>643</td>
<td>520</td>
<td>639</td>
<td>87</td>
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</table>

### Areas of Research (n=622)

- Science 32%
- Social Sciences 18%
- Health and Medicine 15%
- Engineering 11%
- Humanities 6%
- Education 5%
- Other 3%
- Architecture 3%
- Arts 3%
- Social Work 0.6%

### Gender (n=622)

- Woman
- Man
- Genderqueer
- Prefer not to disclose

Note on areas of research, gender, and race and ethnicity: data collected from self-disclosed categories at registration from student presenters representing Utah System of Higher Education institutions.
UCUR 2023 inaugurated poster prizes which were made possible by generous donations from the University of Utah’s Office of the Vice President for Research (VPR) and Undergraduate Advancement (Office of Undergraduate Studies).

Undergraduate research presentation opportunities afford early career researchers an opportunity to practice speaking about their research and makes visible their research; it is an important aspect of research professionalism and a high-impact practice.

One hundred people served as poster-evaluators from across the state of Utah. The UCUR poster prize committee included Associate Vice Provost Jake Jensen (VPR), Associate Dean Mark St. Andre (Data and Analytics), Associate Dean Annie Isabel Fukushima (Office of Undergraduate Studies and Office of Undergraduate Research), Associate Director Eli Covarrubias (Office of Undergraduate Research), and Academic Program Manager Megan Shannahan (Office of Undergraduate Research). The committee was deeply impressed by the quality of posters submitted for this competitive state-wide undergraduate research competition.

**Best: Overall**
Claire Park, University of Utah, Poster D17, “An Optogenetic Model of Hemispatial Neglect Permits Real-Time Induction of Rightward Spatial Bias”

**Best: Health Science**
Best Health Sciences Winner: Tanner Frahm, University of Utah, Poster D10, “Fully Magnetically Levitated Continuous Flow Left Ventricular Assist Device: Are We There Yet?”

Best Health Sciences Winner: Harlan Stevens, Brigham Young University, Poster D42, “Genetic Modification of NMAD-1 Demethylase in C. elegans to Affect Longevity”

Health Sciences Honorable Mention: Hayden Johns, Utah State University, Poster D4, “Vascularization of Renal Organoids Using Chorioallantoic Membrane”

Health Sciences Honorable Mention: Kim Wilson, Utah Tech University, Poster D44, “Bulimia Nervosa and Treatment-Related Disparities: A Review”
UCUR Poster Prizes - Continued

**Best: Humanities**

Best in Humanities Winner: Christine Schmidt, Anita Riddle, Sierra Schmidt, Karson Spencer, Salt Lake Community College, Poster B91, “Alternative, Ergonomic Music Keyboard Designs Suit More People”

Humanities Honorable Mention: McKenna Goade, Utah Valley University, Poster A5, “The Presence of Absence: Exploring the Shadows of Death”

**Best: Interdisciplinary**

Best in Interdisciplinary Fields Winner: Nura Mostaghimi, University of Utah, Poster A64, “Increasing Science Self-Efficacy and Identity Through Participation in the Native American Summer Research Internship Program”

Interdisciplinary Fields Honorable Mention: Brynn Pyper, Brooke Curry, Marinne Hammond, Matthew Grendell, Brigham Young University, Poster C34, “The Effects of Writing Tutoring on Perceived Stress”

Interdisciplinary Fields Honorable Mention: Cayden Schroader, Emma Blanch, Kary Makela, Weber State University, Poster C75, “Weber State Student Leadership Social Issues Team: Why Students’ Completion Numbers for FAFSA are at All Time Low”

**Best: Social Justice**

Best in Social Justice & Equity Winner: Sarai Silva, Brigham Young University, Poster C60, “Gua- du-lupe Monroy: ¿Mujer virtuosa, ¿quién la hallará?”

Social Justice & Equity Honorable Mention: Andrew Koenig, University of Utah, Poster C63, “New Leadership Academy’s Effect on Leadership”

**Best: Social Sciences**

Best in Social Sciences Winner: Kyle Davis, Brigham Young University, Poster C54, “Now Growing Grapes: The Post-2012 Political Realignment of Orange County from Red to Purple”

Social Sciences Honorable Mention: Marissa Larkin, University of Utah, Poster A56, “Associations Among Maternal Trauma History, Prenatal Emotion Dysregulation, and Prenatal Sleep Quality”

**Best: STEM (Science, Technology, Engineering & Mathematics)**


Best in Science, Technology, Engineering, & Mathematics Winner: Lauren Ford, Erin Taylor, Eliza White, Brigham Young University, Poster B60, “Effects of Immune System Activity and Methamphetamine on Dopamine Terminal Function”

Science, Technology, Engineering, & Mathematics Honorable Mention: Kamarie Dalton, Southern Utah University, Poster D29, “Prenatal Folate Status Influences Hematopoietic Stem Cell Function”

Science, Technology, Engineering, & Mathematics Honorable Mention: Megan DuVal, University of Utah, Poster D64, “Exploring Species Boundaries in a Widespread Army Ant Genus Using DNA Barcodes”
Research on Capitol Hill (ROCH)

The Office of the Vice President for Research, the Office of Government Relations, and the Office of Undergraduate Research select students each year to exhibit their work via posters to Utah State legislators. State legislators are invited to attend the poster presentations, where students receive guidance on how to speak with state representatives about their research. ROCH demonstrates the importance of undergraduate research and creative work through a collaboration between public research universities in this state: University of Utah and Utah State University. The first ROCH was hosted at Capitol Hill in 2000. Legislators are invited by vice president Jason Perry and Natalie Tippets (Office of Government and Relations), to learn more about R1 research and the vital role state funds have in fostering the future of Utah. Speakers included Governor Spencer Cox, Associate Vice President for Research Integrity & Compliance Caren Frost (University of Utah), and President Noelle E. Cockett (Utah State University).

National Conference on Undergraduate Research (NCUR)

NCUR 2023 was hosted at the University of Wisconsin-Eau Claire. To support student presenters, the OUR hosted the session Presenting at a National Conference facilitated by Dr. Annie Isabel Fukushima and student leader Ava Peitz on March 16, 2023. OUR supports student travel to conferences and paid for the student registration fees.

15 STUDENT PRESENTERS

24 STUDENT PRESENTERS

January 20, 2023
2022 marked 22 years of undergraduate research publications with the Office of Undergraduate Research Undergraduate Research Journal. For volume 23 (Fall issue, 2022), the OUR shared with our readers and contributors the publication of the journal on a new platform: Press Books. To celebrate the new location and the transformation of the journal, the journal was renamed to: Range: Undergraduate Research Journal. UEN Digital Press with Pressbooks supports Utah’s growing community of educators and partners seeking to transform teaching and learning through OER and Open Pedagogy.
OUR Outreach

The OUR outreach includes tabling, classroom presentations, social media, and our website. During Fall 2022, in partnership with University Marketing & Communications, OUR launched the newly designed website. This included the use of a new platform to distribute communications via a bi-weekly newsletter: MyEmma.

69 EVENTS ATTENDED

4,847 REACHED IN-PERSON

Tabling at events & classroom presentations

178,557 OUTREACHED ON SOCIAL MEDIA

190,527 WEBSITE VISITORS

5,065 NEWSLETTER RECIPIENTS
For the past five years, OUR has supported graduate school aspirations in undergraduate researchers by co-hosting the “Graduate School Mini Expo” as part of its summer programs. On June 22, 2023 the most recent Mini Expo was hosted as part of summer events. The Mini Expo is a partnership between OUR Summer Programming, OUR Summer Program Partners, and the Graduate School. One hundred and fifty nine students attended the Mini Expo.

Graduate School

Undergraduate research is recognized for being central to retaining undergraduate students towards graduation. The centrality of mentoring relationships and programmatic activities that foster a culture of belonging in higher education have led the University of Utah’s OUR to be a campus leader in creating programmatic activities and funding opportunities that support student retention.
OBJECTIVE 03
Diversity in Research and Early Academic Support

OUR students experience undergraduate research across their academic journey, from first year to graduation, with a majority of undergraduate researchers accessing opportunities in the third and fourth year of their academics. Since 2015, 30.5% of all of OUR funded students (UROP, SPUR, URL, Travel & Small Grants) have been in their first or second years of their academics. This means, the program successfully supports students as they advance early in their academics. OUR fosters equity in access through research and diversity of participants by:

- Offering a course designed for early undergraduate students
- Funding first and second-year students
- Supporting diversity in undergraduate researchers accessing opportunities

Undergraduate Studies 2950

Beginning in the spring 2021, Undergraduate Studies offered the first time ever, UGS 2950-Undergraduate Research Experience asynchronous online course. The course was designed by and taught by Dr. Anne Cook during Spring 2021 and 2022. The course fulfills general education requirements: Applied Sciences [AS] and Social & Behavioral Science [BF]. Students experience content including research fundamentals and skill building for research.

39 STUDENTS REGISTERED
100% SATISFIED with the COURSE
100% RECOMMEND the COURSE
Supporting Diversity and Equity in Undergraduate Research

In order to promote equity in learning and research, it is essential for OUR to capture student diversity. OUR added a new question to Undergraduate Research Opportunity Programs, where mentors now respond to how a mentee's research contributes to diversity in research.

Diversity in research includes diverse fields of study, subjects of research, and diverse teams. The OUR is committed to supporting diversity in research. Students of color, including American Indian, Alaskan Native, Asian / Asian American, Black / African American, Hispanic or Latine, Multiracial and Pacific Islander constitute the diverse students of color accessing the programs. Additionally, the Office is proud of its support of gender diverse students where a majority of the programs support gender minorities and women. Additionally, 26% of OUR participants are transfer students, students who are more likely to be first generation, Pell-eligible, or students of color.

**OUR Participants by College (2015-2023)**

**OUR Funded Participants by College (2015-2023)**

Numbers are being updated every semester, and percentages can vary by semester.
Data aggregates percentiles from students since 2015, and the provided data represents student diversity 2015-2023. OUR recognizes that gender, racial, and ethnic categories are more complex than what is presented here and this is just a snapshot of what is known from current University of Utah Data and Analytics.
Central to a robust organization are efforts to diversify resources. The Office of the Vice President for Research, state funds, central funds from the university, private donors, and foundations support OUR. OUR participated in the March 28, 2023 #UGivingDay. Working in partnership with Undergraduate Studies Advancement, OUR has continued to sustain partnerships with donors committed to undergraduate research, including the Dee Foundation, the Francis Family Fund, Parent Fund, the Monson family, and the Roger Leland Goudie Trust.

Central to undergraduate research at the University of Utah are faculty partnerships. For the 2022-2023 academic year Associate Dean Fukushima wrote letters of support for seven external grants submitted to National Science Foundation and the National Institute for Health led by faculty at the University of Utah, reflecting efforts to encourage more faculty applying for external grants by including undergraduate researchers in their budgets.

Additionally, the associate dean teamed up with grant applications led by colleagues in the College of Science and across the campus for the Howard Hughes Medical Institute Driving Change grant application, led by Dr. Tino Nyawelo. Additionally, the OUR teamed up with faculty in Neurology to support a research fellowship grant application led by Dr. Stacy Clardy and Ka-ho Wong for their application for the NIH National Institute of Neurological Disorders and Stroke (NINDS) grant application.

The OUR is also pursuing federal grant opportunities to diversify the funding supporting the office, students, and faculty collaborations. To continue to strive to showcase the University of Utah as a leader in state-wide research efforts, the University of Utah’s OUR led the first time ever, state-wide application for the National Science Foundation Louis Stokes Alliances for Minority Participation to create the Utah STEM ME Program. The vision of the Utah STEM ME is to strengthen educational opportunities for minorities in STEM through the creation of a Utah state-wide alliance of the STEM ME program - Science, Technology, Engineering and Mathematics for Minority Explorations. The goals of the Utah STEM ME program are as follows: 1. Fostering belonging in minority STEM Scholars by strengthening state-wide partnerships; supporting undergraduate research in STEM fields in Utah. 2. Increase minority retention in STEM fields from the first year to the second year in the state of Utah.

Utah through supporting first-year explorations with research. 3. Foster minority progression in STEM fields through research mentored by faculty in STEM. 4. Advance Utah minority graduation rates in STEM fields through early explorations that lead to presenting research at the Utah Conference for Undergraduate Research. And, 5. Track STEM ME participant success in STEM fields (GPA; first year to second-year retention in STEM fields; learning objectives related to research and presenting research; increased confidence in STEM and research; and evaluate student presentations at the Utah Conference of Undergraduate Research). The Utah STEM ME program proposes to enact a multifaceted institutional change model of fostering belonging, creating resources, supporting the structure of a multi-tiered collaborative model, and a multi-faceted approach to institutional change. Before we discuss our model, we offer a background as to why this is important. The Utah STEM ME alliance is a collaboration between Utah institutions: University of Utah (Lead and R1), Utah State University (R1), Weber State University (Masters L Institution), Salt Lake Community College (public community college), Snow College (public community college), Southern University of Utah (public university), Utah Tech University (Polytech university, formerly Dixie State University), and Utah Valley University (integrated public university and community college). The Utah STEM ME program proposes to create an alliance of 8 institutions in the state of Utah that fosters social integration of Utah STEM ME scholars through a cohort experience, supporting travel to conferences, virtual cohort gatherings twice a semester, programmatic visibility of Utah STEM ME in UCUR’s annual conference, and access to virtual content to support growth. And the program fosters social integration for faculty and includes award recognition and opportunities to connect with other faculty through mentor program activities.
Funders, Sponsors, and Donors

Special thanks to all those who gave to OUR in 2022-2023.

Because of the wide-range of support OUR receives, we are a success.

PARTNERS
Undergraduate Studies
Office of Undergraduate Research
Vice President for Research

SPONSORS
College of Mines & Earth Sciences
Graduate School
J. Willard Marriott Library
Utah Museum of Fine Arts

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Dee Foundation
The Francis Family Fund
Parent Fund
Ivory Foundation
The Monson Family Fund
Roger Leland Goudie Trust

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Dr. Annie Fukushima
Dr. Jan Kubanek
Dr. Jordan Gerton
Dr. Prafulla Martin-Garg & Dr. Vikram Garg
Dr. Theresa Martinez
Tyler Matsamas
Hunter Moreton
Lisa Nemelka
Dr. Dennis Parker & Mrs. Anne Parker
Dr. Vandana Ramachandran & Clayton Runnebohm
Dr. Melissa Watt
Dr. Guangzhen Wu
Mrs. Elizabeth Young
Appendix A: UROP Scholars
(Summer 2022-Summer 2023)

**Architecture + Planning**

(4)
Samantha Eddy (Summer 2022)
Campeon Ramirez (Spring 2023)
Alexandra Turner (Fall 2022 and Spring 2023)
Pete Vawdrey (Spring 2023)

**Business**

(3)
Rajeh Albugami (Spring 2023)
Asher Bess (Summer 2023)
Luis Ramirez (Fall 2022 and Spring 2023)

**Cultural & Social Transformation**

(12)
Lilian Aguilar Garcia (Summer 2023)
Sandra Del Rio Madrigal (Spring 2023)
Hannah Early (Fall 2022 and Spring 2023)
Ximena Franco (Spring 2023)
Natalia Garrido (Fall 2022 and Spring 2023)
Holden Jones (Summer 2022)
Adam Montgomery (Fall 2022 and Spring 2023)
Lauren Rives (Summer 2023)
Elizabeth Russo (Fall 2022 and Spring 2023)
Miles Smith (Fall 2022)
Kadi Sow (Spring 2023)
Haley Tetzlaff (Spring 2023)

**Dentistry**

(2)
Eliza Diggins (Fall 2022 and Spring 2023)
Alex Romano (Summer 2023)

**Education**

(2)
Andrew Koenig (Spring 2023)
Benjamin Searle (Summer 2022)

**Engineering**

(119)
Ruba Alraqibah (Fall 2022)
Aksel Anderson (Spring 2023 and Summer 2023)
Lauren Anderson (Spring 2023)
Camry Bailey (Summer 2023)
Michael Barkdull (Fall 2022 and Spring 2023)
Nathan Bartlett (Fall 2022)
Radhika Bhakta (Fall 2022)
Milo Birdwell (Fall 2022 and Spring 2023)
Kin Blandford (Summer 2023)
Joseph Brignone (Fall 2022)
Cassandra Burdick (Fall 2022 and Spring 2023)
Ethan Carcas (Summer 2023)
Joe Christiansen (Spring 2023)
Clara Coffey (Fall 2022)
Aaron Coon (Summer 2022)
James Craig (Summer 2022 and Spring 2023)
Nichols Crawford Taylor (Fall 2022 and Spring 2023)
Andrei Dan (Fall 2022)
Lance Delos Reyes (Summer 2023)
Kerrigan Denham (Spring 2023)
Jason Dieu (Summer 2023)
Collin Dover (Summer 2022)
Michael Esplin (Fall 2022)
Abby Firth (Summer 2023)
Jensen Fobel (Spring 2023)
Tanner Frahm (Summer 2022 and Fall 2022)
Alexis Friedman (Summer 2022)
Yash Ghanathe (Spring 2023)
Emily Giesinger (Spring 2023 and Summer 2023)
Jeremi Godbout (Fall 2022)
Carlos Gonzalez (Fall 2022 and Spring 2023)
Verl Grant (Summer 2023)
Nicholas Gresler (Fall 2022)
Josh Gubler (Spring 2023 and Summer 2023)
Kaysen Hansen (Summer 2022 and Spring 2023)
Liam Haynie (Summer 2022)
Quinn Hayward (Spring 2023)
Shing Hei Ho (Spring 2023 and Summer 2023)
Lindi Hopkins (Fall 2022)
Oliver Hubbard (Fall 2022)
Anna Huber (Spring 2023)
Justin Isaac (Summer 2023)
Rui Jin (Spring 2023 and Summer 2023)
Jacob Johnson (Spring 2023)
Dakota Jones (Fall 2022)
Jeewon Kim (Summer 2023)
Jun Ha Kim (Spring 2023)
Wona Kim (Summer 2022)
Wooyoung Kim (Summer 2023)
Yeonsu Kim (Summer 2023)
Jonas Knochelmann (Summer 2022)
Clara Kramer (Spring 2023)
Ryan Lam (Fall 2022 and Spring 2023)
Logan Lancaster (Spring 2023)
Alan Larrea Caro (Fall 2022)
Alexandra Leavitt (Summer 2022 and Fall 2022)
Andrew Lee (Spring 2023)
Joey Lee (Summer 2023)
Kevin Lee (Spring 2023 and Summer 2023)
Owen Leishman (Fall 2022)
Amelia Lessen (Fall 2022)
Sam Lewis (Summer 2023)
Sabrina Lin (Summer 2022)
Robert Lindemann (Fall 2022)
Maddie Lodico (Spring 2023 and Fall 2022)
Luke Loehding (Summer 2023)
William Loxley (Spring 2023 and Fall 2022)
Yiming Lu (Fall 2022)
Ty Lunde (Summer 2023)
Emily Lym (Summer 2022 and Spring 2023)
Christian Madsen (Fall 2022)
Jennafar Marsh (Summer 2023)
Bailey Martin (Fall 2022 and Spring 2023)
Lucia Mason (Spring 2023)
Garrett McClellan (Fall 2022)
Carson Minor (Spring 2023)
Hannah Morrison (Fall 2022)
Caden Myers (Fall 2022)
Mia Nelson (Fall 2022 and Spring 2023)
Khoi Nguyen (Fall 2022)
Phat Nguyen (Fall 2022)
Quinna Nguyen (Summer 2022 and Summer 2023)
Abbie Nistler (Spring 2023)
Taylor Ottley (Fall 2022 and Spring 2023)
Andrew Pack (Spring 2023 and Summer 2023)
Brayden Paul (Fall 2022)
Henry Peterson (Spring 2023)
George Polischchuk (Summer 2023)
Jesse Prime (Fall 2022 and Spring 2023)
Nathan Ramey (Summer 2022)
Zachary Rasmussen (Summer 2023)
Haven Redd (Summer 2023)


**Appendix A: UROP Scholars - Continued**

**Engineering - Continued**
- Keegan Richardson (Fall 2022)
- David Rou (Summer 2022)
- Mathias Schoen (Fall 2022 and Spring 2023)
- Lyndsey Schultz (Spring 2023)
- Gabe Sherman (Summer 2023)
- Tanner Short (Fall 2022)
- Jack Shunn (Spring 2023)
- Nate Soejima (Spring 2023)
- Elise Stockham (Fall 2022 and Spring 2023)
- Garrett Stoneman (Spring 2023 and Fall 2022)
- Nathan Sudbury (Summer 2023)
- Alex Tokita (Spring 2023)
- Tala Hammond (Summer 2022)

**Fine Arts (8)**
- Tate Alexander (Summer 2023)
- Pablo Ayala (Spring 2023)
- Camden Barrett (Summer 2023)
- Adah Bennion (Spring 2023)
- Janice Bunker (Fall 2022)
- Michael Palmer (Spring 2023)
- Cayden Turnbow (Spring 2023)
- Leisina Wolfram (Summer 2022)

**Health (24)**
- Jasmine Arreguin (Summer 2023)
- Haley Blomquist (Fall 2022 and Spring 2023)
- Noah Bondi (Summer 2023)
- Bennett Browning (Summer 2022)
- Hunter Carlson (Fall 2022)
- Alisha Chong (Spring 2023)
- Calvin Coates (Summer 2022 and Fall 2022)
- Tala Hammond (Summer 2022)
- Kyle Harshany (Fall 2022 and Spring 2023)

**Honors College (25)**
- Nayla Rodriguez (Spring 2023)
- Gillian Ruppel (Fall 2022 and Spring 2023)
- Addison Bethards (Fall 2022 and Spring 2023)
- Connor Blunt (Summer 2022)
- Britta Bolander (Spring 2023)
- John Bowden (Summer 2023 and Fall 2022)
- Caleb Curtis (Summer 2023)
- Joe de Lannoy (Spring 2023)
- Pierce Dirkis (Spring 2023)
- Kailee Ferret (Fall 2022)
- Rachel Holland (Summer 2022)
- Annie Jensen (Spring 2023)
- Suzanne Kekoa (Spring 2023)
- Bridget Kelly (Fall 2022)
- Marco Leavitt (Summer 2023)
- Kalista Leggitt (Spring 2023)
- Melissa Lira (Summer 2023)
- Casey Miller (Fall 2022)
- Cody Page (Fall 2022)
- Mel Palmer (Summer 2023)
- Molly Rhodes (Spring 2023)
- Luke Seaver (Spring 2023)
- Trever Vallieres (Spring 2023)
- George West (Summer 2023)
- Zeia Woodruff (Spring 2023)

**Medicine (86)**
- Sam Aamodt (Fall 2022 and Spring 2023)
- Teric Abunuwara (Fall 2022)
- Dian Ahmed (Summer 2022)
- Raghad Aljassim (Fall 2022 and Spring 2023)
- Ajak Arok (Fall 2022 and Spring 2023)
- Nehal Bakshi (Fall 2022 and Spring 2023)
- Danny Barrera (Spring 2023)
- Austin Bender (Summer 2023)
- Abbey Blair (Fall 2022 and Spring 2023)
- Libby Brooks (Spring 2023)
- Nia Brooks (Fall 2022 and Spring 2023)
- Matt Chambers (Fall 2022 and Spring 2023)
- Jui-Yi Chiou (Summer 2022 and Fall 2022)
- Elijah Counterman (Spring 2023 and Fall 2022)
- Jamie Covington (Fall 2022)
- Joshua Crockett (Fall 2022)
- Cameron Davis (Summer 2023)
- Samantha Davis (Fall 2022)
- Hannah Duron (Summer 2023)
- Fatima Faizi (Fall 2022)
- Jordyn Gagon (Fall 2022)
- Jane Gardner (Fall 2022)
- Shalyce Gardner (Summer 2022)
- Danaya Geer (Fall 2022)
- Anna Gilstrap (Fall 2022 and Spring 2023)
- Divyam Goel (Fall 2022)
- Dhuwan Goshipathi (Spring 2023)
- Alexa Gormick (Summer 2023)
- Sigi Guo (Spring 2023)
- Gabrielle Hadinger (Summer 2022)
- Breydon Hardy (Summer 2023)
- Audrey Hendarto (Fall 2022 and Spring 2023)
- Samuel Hendry (Spring 2023 and Fall 2022)
- Josh Hillyard (Summer 2022)
- Isabelle Hong (Fall 2022)
- Jonathan Hong (Summer 2022)
- Alicia Horn (Fall 2022)
- Nathan Iverson (Summer 2022)
- Jasmine Jacobo (Fall 2022)
- Jacob Jones (Fall 2022)
- Abhilasha Khati (Spring 2023)
- Jennifer Kim (Fall 2022)
- Peyton King (Summer 2023)
- Mia Kowalczyk (Spring 2023)
- Xander Kraus-McLean (Summer 2023)
- Brian Kwak (Spring 2023)
- Jack Landmess (Summer 2022)
Appendix A: UROP Scholars - Continued

**Medicine - Continued**
- Jordy Larrea Rodriguez (Fall 2022 and Spring 2023)
- Andy Lee (Fall 2022)
- Zihao Lyu (Summer 2022)
- Lorrin Malady (Summer 2023)
- Joshua Marchant (Fall 2022)
- Travis Martinez (Fall 2022)
- Matthew Michaud (Summer 2022)
- Erika Muhlrad (Fall 2022)
- Ritika Nayan (Summer 2023)
- Irrane Nelson (Fall 2022 and Spring 2023)
- Carter Niedert (Fall 2022)
- Carmen Nieznanski (Spring 2023 and Summer 2023)
- Abby Niwa (Summer 2023)
- Taylor Otterness (Fall 2022)
- Yun Soo Park (Summer 2022)
- Ethan Parker (Fall 2022)
- Gosha Polishchuk (Spring 2023)
- Nicholas Poll (Fall 2022)
- Annie Pugmire (Fall 2022)
- Catherine Rousculp (Fall 2022 and Spring 2023)
- Morgan Smoot (Summer 2023)
- Porter Stulce (Summer 2023)
- Matyas Szilagyi (Summer 2023)
- Devin Thomas (Spring 2023)
- Ashley Thompson (Fall 2022)
- Kiersten Thompson (Summer 2023)
- Nick Thomson (Spring 2023 and Summer 2023)
- River Tobias (Summer 2023)
- Zach Tripp (Spring 2023)
- Emilio Trujillo (Summer 2022 and Spring 2023)
- Jon Urry (Fall 2022)
- Kyle Valestrino (Summer 2023)
- Rene Valles (Fall 2022)
- Bridget Ward (Fall 2022)
- Anya Weglarz (Summer 2022)
- Alex Wiedemann (Fall 2022 and Spring 2023)
- Jennie Wilson (Fall 2022)
- Zane Zobell (Fall 2022)

**Mines & Earth Sciences (15)**
- Logan Ashurst-McGee (Summer 2023)
- Chloe Barry (Spring 2023)
- Emma Boeman (Fall 2022)
- Garrett Butler (Summer 2022 and Summer 2023)
- Claire Cruz (Fall 2022 and Spring 2023)
- Grant Daniels (Fall 2022 and Spring 2023)
- Dewi Eagan (Summer 2022)
- Maddie Festin (Spring 2023)
- Autumn Hartley (Fall 2022 and Spring 2023)
- Rachel Jorgensen (Fall 2022)
- Angelina Miller (Spring 2023)
- J.R. Murphy (Fall 2022)
- Alec Phipps-Wirtz (Summer 2022 and Summer 2023)
- Nancy Sohlberg (Summer 2022 and Fall 2022)
- Tyler Yoklavich (Summer 2022 and Spring 2023)

**Nursing (6)**
- Sofia Flowers (Summer 2023)
- Michaela Lawson (Spring 2023)
- Emma Norris (Spring 2023)
- Brianna Oliveros (Spring 2023 and Summer 2023)
- Kimberly Ponce Gonzalez (Fall 2022)
- Haley Utendorfer (Spring 2023 and Summer 2023)

**Pharmacy (11)**
- Jaden Arnold (Fall 2022)
- Spencer Carstens (Summer 2022)
- Gabrielle Desjardins (Fall 2022)
- Eli Finlinson (Spring 2023)
- Adam Ford (Fall 2022)
- Lily Halberg (Summer 2023)
- Kylee McManus (Summer 2023 and Spring 2023)
- Sonia Osuna (Summer 2022 and Fall 2022)
- CJ Reid (Fall 2022 and Spring 2023)
- Matthew Stefanic (Fall 2022)
- Miles Thomas (Summer 2022 and Fall 2022)

**Science (69)**
- Nicole Amedee (Fall 2022 and Spring 2023)
- Noah Armstrong (Fall 2022 and Spring 2023)
- Arnel Besic (Fall 2022)
- Bryce Bosworth (Summer 2022 and Fall 2022)
- Alison Bouck (Summer 2022)
- Georgia Brach (Fall 2022 and Spring 2023)
- Jasper Bradford (Fall 2022)
- Collin Caldwell (Fall 2022 and Spring 2023)
- Janint Camacho (Summer 2023)
- Michelle Cao (Spring 2023)
- Quinlan Cassidy (Fall 2022 and Spring 2023)
- Akila Chalapathi (Fall 2022 and Spring 2023)
- Harold Chen (Summer 2023)
- Noah Conner (Summer 2023)
- Aidan Connor (Spring 2023)
- America Cox (Summer 2022 and Fall 2022)
- Sarah Crago (Fall 2022 and Spring 2023)
- Alyssa Curtis (Spring 2023)
- Abagail Darling (Fall 2022)
- Sierra Davis (Fall 2022 and Spring 2023)
- Andrew Erickson (Fall 2022 and Spring 2023)
- Cannon Fehrenbach (Fall 2022)
- Christian Furness (Fall 2022 and Summer 2022)
- Clista Galecki (Fall 2022)
- Audrey Glende (Spring 2023)
- Kaan Goktepe (Spring 2023)
- Parker Guzman (Spring 2023 and Summer 2023)
- JC Herrmann (Fall 2022 and Spring 2023)
- Joshua Hill (Summer 2022)
- Jude Horsley (Fall 2022)
- Caroline Keller (Fall 2022)
- Daniel Koizumi (Fall 2022)
- Sydney Larsen (Summer 2023)
- Hannah Lee (Summer 2022 and Fall 2022)
- Benvin Lozada (Fall 2022 and Spring 2023)
- Julane Machado (Spring 2023)
- Julianna Matteis (Spring 2023)
- Victoria Medvedeva (Spring 2023)
- Delaney Miller (Summer 2023)
- Jackson Munn (Fall 2022)
- Samantha Nestel (Spring 2023)
Appendix A: UROP Scholars - Continued

Science - Continued
Hoang Nguyen (Fall 2022)
Ali Nopper (Summer 2023)
Micaela Olives (Summer 2023)
Claire Palmer (Fall 2022)
Alice Parker (Spring 2023)
Gary Perea (Summer 2022)
Scott Perkins (Spring 2023)
Mikal Peterson (Summer 2022 and Fall 2022)
Julia Petheram St. Andre (Summer 2022)
Kiyanna Porter (Spring 2023 and Summer 2023)
Bridget Raymundo (Summer 2023)
Maddox Riewald (Summer 2023)
Ana Rowe (Summer 2022)
Emily Sageser (Spring 2023)
Olivia Schmitz (Fall 2022 and Spring 2023)
Mitchell Spendlove (Summer 2022)
Jacob Strong (Spring 2023)
Marcus Tanner (Fall 2022 and Spring 2023)
Quyen Tran (Fall 2022 and Spring 2023)
Anastasia Varela (Summer 2023)
Rachel Whipple (Fall 2022)
Marc Whiting (Summer 2022)
Claudia Wiese (Fall 2022)
MacKenzie Woodrum (Spring 2023)
Anuhya Yalavarty (Spring 2023)
Bailey Young (Spring 2023)
Nikolai Zarandona (Summer 2022)

Social & Behavioral Science (76)
Evelyn Acosta (Fall 2022 and Spring 2023)
Callie Avondet (Fall 2022)
Theodore Baende (Spring 2023)
Jacob Berryhill (Fall 2022)
Winky Boody (Spring 2023)
Kerrigan Bunker (Spring 2023)
Emalee Carroll (Fall 2022 and Spring 2023)
Sophia Chernosky (Spring 2023)
Piper Christian (Fall 2022)
Eamon Christiansen (Summer 2023)
Jordan Davidson (Spring 2023)
Hailee Davis (Spring 2023 and Summer 2023)
Nina de Vos (Spring 2023)
Julia Decker (Spring 2023)
Shane Denherder (Summer 2022)
Jeff Dillon (Spring 2023 and Summer 2023)

Tyler Endow (Fall 2022)
Isabelle Forrest (Fall 2022 and Spring 2023)
Emma Glende (Summer 2022)
SuYeon Gwak (Fall 2022)
Gabriel Hammond (Summer 2023)
Amy Harvey (Fall 2022 and Spring 2023)
Kylie Haslam (Spring 2023)
Brendan Hatch (Spring 2023)
Samuel Hoffman (Spring 2023 and Fall 2022)
Taylor Holladay (Fall 2022)
Amanda Holt (Summer 2023)
Izzy Hong (Summer 2023)
Aaron Ibarra (Fall 2022 and Spring 2023)
Lauren Isom (Spring 2023)
Jack Jowers (Fall 2022)
Saey Kamtekar (Fall 2022)
Samantha Kight (Fall 2022)
Sydney Kincart (Fall 2022 and Spring 2023)
Karena Klinkenberg (Spring 2023)
Halisha Knipe (Summer 2023)
Jensen Koff (Spring 2023)
David Lee (Spring 2023)
Benning Lozada (Fall 2022 and Spring 2023)
Kitsel Lusted (Spring 2023)
Marin Macfarlane (Summer 2022 and Fall 2022)
Caroline Martin (Fall 2022)
Julia Martin (Fall 2022)
Rose McLaughlin (Fall 2022)
Corrina McMurtrey (Fall 2022 and Spring 2023)
Carson Miller (Spring 2023)
Seunghee Moon (Summer 2023)
Nura Mostaghimi (Fall 2022 and Spring 2023)
Misty Myers (Spring 2023)
Andrew Nielsen (Summer 2023)
Tara Olson (Fall 2022)
Isaiah Ortiz (Spring 2023)
Lauren Page (Fall 2022 and Spring 2023)
Haley Parsons (Spring 2023)
Nancy Pasillas (Spring 2023)
Katya Podkovyrov Lewis (Fall 2022 and Spring 2023)
Alicia Quick (Summer 2022 and Fall 2022)
Jade Ramirez-Barraza (Summer 2023)
Inakhshmi Rashid (Fall 2022 and Spring 2023)
Alyssa Richards (Fall 2022)
Jacob Richins (Fall 2022 and Spring 2023)
Mary Roalstad (Fall 2022)
Talon Roberts (Fall 2022 and Spring 2023)
Topher Roller (Fall 2022)
Camille Schadel-Romero-Oak (Fall 2022 and Spring 2023)
Lauren Shields (Spring 2023)
Marti Sorensen (Fall 2022 and Spring 2023)
Brennan Stock (Spring 2023)
Matt Storie (Spring 2023)
Sofia Thoms (Spring 2023 and Fall 2022)
Macey Tilk (Fall 2022)
Melissa Tyszko (Fall 2022 and Spring 2023)
Maya Upton (Spring 2023)
Emma Videla (Spring 2023)
Martha Werner (Fall 2022)
Sierra Young (Summer 2022)
Appendix B: UROP Faculty Mentors (Summer 2022-Summer 2023)

Architecture + Planning (4)

**Summer 2022**
Shundana Yusaf

**Fall 2022**
Alessandro Rigolon

**Spring 2023**
Milad Mozari
Alessandro Rigolon
Joerg Ruegemer

Business (3)

**Fall 2022**
Lyda Bigelow

**Spring 2023**
Lyda Bigelow
Amelia Stillwell

**Summer 2023**
Sara Malik

Cultural & Social Transformation (7)

**Summer 2022**
Claudia Geist

**Fall 2022**
Annie Fukushima
Claudia Geist
Kim Hackford-Peer
Ed A. Munoz

**Spring 2023**
Ana Carolina Antunes
Annie Fukushima
Claudia Geist
Alborz Ghandehari
Kim Hackford-Peer
Ed A. Munoz
Thomas Swensen

**Summer 2023**
Claudia Geist
Annie Fukushima

Dentistry (1)

**Fall 2022**
Melodie Weller

**Spring 2023**
Melodie Weller

**Summer 2023**
Melodie Weller

Education (2)

**Summer 2022**
Lauren Barth-Cohen

**Spring 2023**
Paton Roden

Engineering (67)

**Summer 2022**
Rogelio Cardona-Rivera
Chuck Dorval
Daniel Drew
Tao Gao
Jake George
Yong Lin Kong
Jan Kubanek
Alan Kuntz
Swomitra Mohanty
Shahrzad Roshankhah
Frank Sachse
Jennifer Weidhaas
Heayoung Yoon

**Fall 2022**
Jeffrey Bates
Edoardo Battaglia
Dmitry Bedrov
Robby Bowles
Owen Chan
Chuck Dorval
Tao Gao
Jake George
Tucker Hermans
Huiwen Ji
Priyank Kalla
Jay Kim
Alan Kuntz
Tommaso Lenzi
Rob MacLeod
Ana Marasovic
Josh McCraine
Bobby Mohanty
Ken Monson
Stefan Nagy
Prashant Pandey
Chris Pantelides
Kay Park
Jeff Phillips
Fernando Rodríguez
Shahrzad Roshankhah
ASHutosh Tiwari
Chen Wang
Dave Warren
Haohan Zhang

**Summer 2023**
Amir Arzani
Robby Bowles
Deisy Cristina Carvalho Fernandes
Jiyoung Chang
Stavros Drakos
Daniel Drew
Henry Fu
Tucker Hermans
Robert Hitchcock
Jay Kim
Jan Kubanek
Appendix B: UROP Faculty Mentors - Continued

**Engineering - Continued**
Alan Kuntz
Rob MacLeod
Juan Medina
Rajesh Menon
Kami Mohammadi
Swomita Mohanty
Ken Monson
Stefan Nagy
Pania Newell
Alex Novoselov
Luke Timmins
Pai Wang
Shundana Yusaf
Thomas Zangle
Haohan Zhang
Peter Zhu

**Fine Arts (7)**

**Summer 2022**
Meekyung MacMurdie

**Fall 2022**
Jane Hatter

**Spring 2023**
Sonia Albert Sobrino
Wendy Wischer

**Summer 2023**
Alexandra Habold
Hubbel Palmer
Brian Snapp

**Health (14)**

**Summer 2022**
Genevieve Albouy
Siheem Boudina
Jesse Christensen
Christopher Depner
Will Holland
Jessie King Jensen

**Fall 2022**
Genevieve Albouy
Siheem Boudina
Amandine Chaix
Jesse Christensen
Peter Fino
Raj Ghosh
Tanya Halliday
Will Holland
Brad King
Stacy Manwaring
Anandh Babu Pon Velayutham
J David Symons

**Summer 2023**
Peter Fino
Anandh Babu Pon Velayutham

**Honors College (1)**

**Fall 2022**
Michael Gills

**Spring 2023**
Michael Gills

**Humanities (18)**

**Summer 2022**
Maureen Mathison
Margaret Wan

**Fall 2022**
Alexis Christensen
Aneillo De Santo
Tanya Flores
Leslie Francis
Kendall Gerdes

**Spring 2023**
Maile Arvin
Dave Bresnahan
Aneillo De Santo
Tanya Flores
Mira Green
Gema Guevara
Matt Haber
Eric Herschthal
Ashton Lazarus
Peter Roady

**Summer 2023**
Dave Bresnahan
Alexis Christensen
Beth Clement
Trace Daniels Lerberg
Mira Green
David Roh

**Medicine (55)**

**Summer 2022**
Anna Beaudin
Dipayan Chaudhuri
Clement Chow
Nicholas Frost
Heath Henninger
Kent Lai
Scott Langenecker
Ben Myers
Allison Payne
Yan-Ting Shiu
Melissa Watt
Jun Yang
Moriel Zelikowsky

**Fall 2022**
Kurt Albertine
Katie Basham
Anna Beaudin
Edgar Bruce
Owen Chan
Clement Chow
Donna Cross
Rebecca Delaney
Emily Dennis
Brian Evavold
Candace Floyd
Man Hung
Lindsay Keegan
Vincent Koppelmans
Tracey Lamb
Matthew Mulvey
Joe Palatinus
Sungjin Park
Dennis Parker
Allison Payne
Marcus Pezzolesi
Vicente Planelles
Candace Reno
Jared Rutter
Punam Sawant-Pokam
Alex Shcheglovitov
Peter Shen
Benjamin Spike
Kristi Warren
Dustin Williams
Brandi Wynne
Moriel Zelikowsky

**Spring 2023**
Anna Beaudin
Kurt Albertine
Katie Basham
Anna Beaudin
Robert Campbell
Donna Cross
Rebecca Delaney
### Appendix B: UROP Faculty Mentors - Continued

#### Medicine - Continued
Stavros Drakos  
Stephen Kimani  
Tracey Lamb  
Daniel Leung  
Troy Madsen  
Matthew Mulvey  
Natasha Pavlova  
Marcus Pezzolesi  
Nirupama Ramkumar  
Candace Reno-Bernstein  
Matthew Rondina  
Jared Rutter  
Peter Shen  
Yan-Ting Shiu  
Benjamin Spike  
Michele Villalobos  
Kristi Warren  
Dustin Williams

#### Summer 2023
Dipayan Chaudhuri  
Gregory Ducker  
Justin English  
David Grunwald  
Heath Henninger  
Panagiotis Kassavetis  
Tracey Lamb  
Daniel Leung  
Douglas Mackay  
Yan-Ting Shiu  
Dustin Williams  
Brandi Wynne  
Moriel Zelikowsky

#### Nursing (4)

**Fall 2022**
Kathie Supiano

**Spring 2023**
Lauri Linder  
Sara Simonsen  
Lauri Linder  
Rebekah Perkins

#### Pharmacy (7)

**Summer 2022**
Shreya Goel  
Peter West  
Karen Wilcox

**Fall 2022**
Katharine Diehl  
Shreya Goel  
David Grainger  
Jindrich Kopecek  
Peter West  
Karen Wilcox

**Spring 2023**
Shreya Goel  
David Grainger  
Karen Wilcox

#### Mines & Earth Sciences (10)

**Summer 2022**
Leif Anderson  
Gannet Hallar  
Kathleen Ritterbush

**Fall 2022**
Leif Anderson  
Gannet Hallar  
Randall Irmis  
Steve Krueger  
Sarah Lambart  
Mark Loewen  
Kip Solomon

**Spring 2023**
Leif Anderson  
Jamie Farrell  
Gannet Hallar  
Steve Krueger  
Kip Solomon  
Michael Thorne

#### Science (40)

**Summer 2022**
Ben Bromley  
Shanti Deemyad  
Summer 2022  
Bryn Dentinger  
Jordan Gerton  
Wesley Hamilton  
Jack Longino  
Ryan Looper  
Sandy Parkinson  
Nitin Phadnis  
Caroline Saouma  
Michael Werner

**Fall 2022**
Fred Adler  
Bill Anderegg  
Connor Bischak  
Ben Bromley  
Sophie Caron  
Dale Clayton  
Bryn Dentinger  
Vikram Deshpande  
Gina Frey  
Jordan Gerton  
Martin Horvath  
Sean Howe  
Talia Karasov  
Jack Longino  
Shelley Minteer  
Nitin Phadnis  
Aaron Puri  
Andrew Roberts  
Caroline Saouma  
Joshua Steffen  
Michael Werner  
Heejin Yoo  
Yue Zhao  
Jingyi Zhu

**Spring 2023**
Ben Bromley  
Sarah Bush  
Sophie Caron  
Fabienne Chevance  
Dale Clayton  
Shanti Deemyad  
Gina Frey  
James Gagnon  
Jordan Gerton  
Martin Horvath  
Alicia Lamarche  
Yao-Yuan Mao  
Nitin Phadnis  
Aaron Puri  
Jon Rainier  
Andrew Roberts  
Ofer Rog  
Mike Shapiro  
Michael Werner  
Luisa Whittaker-Brooks  
Ayako Yamaguchi  
Chan Yul Yoo  
Heejin Yoo  
Jingyi Zhu

**Summer 2023**
Sarah Bush  
Fabienne Chevance  
Martin Horvath  
Shelley Minteer  
Eric Montoya  
Nitin Phadnis  
Aaron Puri  
Andrew Roberts  
Joshua Steffen  
Heejin Yoo
Appendix B: UROP Faculty Mentors - Continued

Social & Behavioral Science (35)

Summer 2022
Adrienne Cachelin
Elisabeth Conradt
Kim Korinek

Fall 2022
Lisa Aspinwall
Cindy Berg
Larry Coats
Elisabeth Conradt
Philip Dennison
Lisa Diamond
Matt Euler
Jessie Fan
Jennifer Follstad Shah
Sara Grineski
Akiko Kamimura
Shane Macfarlan

Spring 2023
Lisa Aspinwall
Katie Baucom
Andrea Brunelle
Adrienne Cachelin
Jackie Chen
Larry Coats
Elisabeth Conradt
Sarah Creem-Regehr
Lisa Diamond
Frank Drews
Tyler Faith
Rick Forster
Cory Inman

Summer 2023
Adrian Bell
Jackie Chen
Akiko Kamimura
Lee Raby
Sarah Small
Tim Webster

Appendix B: UROP Graduate Student Mentors
(Summer 2022-Summer 2023)

Engineering (8)
Summer 2022
Eugene Kwan
Andrew Miller
Nick Witham

Fall 2022
Monika Buczak
Carena Cornelssen
Eugene Kwan
Caleb Thomson

Spring 2023
Connor Olsen
Caleb Thomson

Summer 2023
Julia Dunn
Connor Olsen

Medicine (8)
Fall 2022
Jordan Grammer
Diane Hernandez
Amy Lenz
Gennie Parkman
Crystal Sigulinsky
Zach Wilson

Spring 2023
Amy Lenz
Caleb Thomson

Summer 2023
Nicole Pershing

Mines & Earth Sciences (1)

Fall 2022
Emily Cunningham

Spring 2023
Emily Cunningham

Science (5)

Summer 2022
Thomas King

Fall 2022
Thomas King
Dylan Klure

Spring 2023
Austin Green
Selvi Kara
Dylan Klure

Summer 2023
Maggie Doolin
Selvi Kara

Social & Behavioral Science (6)

Summer 2022
Amy McDonnell

Fall 2022
Janae Chandler
Amy McDonnell
Stella Mosher
Kaedan O’Brien
Jack Silcox

Spring 2023
Janae Chandler
Amy McDonnell
Stella Mosher
Kaedan O’Brien

Summer 2023
Rob Warner
Appendix C: SPUR Scholars (Summer 2022-Summer 2023)

Architecture + Planning
2022 (1)
Olivia Vielstich
2023 (1)
Wynton Jarvinen

Cultural & Social Transformation
2022 (1)
Natalia Garrido
2023 (1)
Aaliyah Henderson

Dentistry
2022 (1)
Brenda Acosta

Education
2022 (2)
Luke Kim
Mary Smith
2023 (2)
Jordan Giron
Abigail McWhirte

Engineering
2022 (5)
Andrew Bergenthal
Gabrielle Bingener
William Hamrick
Jacob Hirst
Thomas Kauffman
2023 (5)
Siddharth Dhumal
Joseph Gilson
Manya Murali
Zachary Olson
Abigail Stringfellow

Health
2022 (3)
Sarah Haysley
Jade Robinson
Keaton Rosquist
2023 (7)
Owen Benzley
Fernanda Guzman
Taylor James
Yulisa Padilla-Fragosso

Humanities
2022 (1)
Eliana Massey
2023 (3)
Callie Avondet
Christen Daniel
Abril Vale-Luzardo

Medicine
2022 (13)
Camden Alexander
Sarah Bayardo
Austin Bender
Samuel Evans
Jacqueline Gomez
Naomi Guerrero Reyes
Seunga Han
Jordy Larrea Rodriguez
Marlon Lopez
Monica-Rae Owens
Catherine Petersen
Kevin Ramos
Bridget Ward
2023 (16)
Laila Batar
Porter Bischoff
Meghan Carter
Ariyanna Clark-Drew
Andrew Clothier
Ashley Cluff
Ryan De Los Santos
Ryan Gardner
Tashianna Gray
Charles Hayward
Grace Makassa
Aryana Merritt-Johnson
Breanka Moore
Olivia Raines
Jonah Simmons
Naomi Thombs

Nursing
2023 (1)
Irene Liang

Pharmacy
2022 (1)
Ananya Kuma
2023 (1)
Jane Staples

Science
2022 (4)
Marco R Castaneda Martinez
Tenzin Norzom
Tejashree Prakash
Eleanor Wachtel
2023 (4)
Mason Burden
Emily Dalley
Hailey Hollins
Rebecca MacGillvray

Social & Behavioral Science
2022 (2)
Hope Caviness
Tara Olson
2023 (11)
Cindy Diaz Rey
Jacqueline Gomez
Mauro Gonzalez
Eunseo Han
Anna Hsu
Michael Joyfull Komigi
Angela Lezaic
Lillian MacKinney
Maiko Okamura
Siena Popiel
Kevin Ramos

Social Work
2022 (1)
Audrey Pozernick

Mines & Earth Sciences
2022 (3)
Gabriel Baffour (2022)
Jessica Cuello (2022)
Rachel D'Agostini (2022)
2023 (1)
Marcus Tanner (2023)
Appendix D: SPUR Scholars
(Summer 2022-Summer 2023)

Architecture + Planning
2022 (1)
Ivis Garcia Zambrana
2023 (1)
Divya Chandrasekhar

Cultural & Social Transformation
2022 (1)
Claudia Geist
2023 (1)
Andrea Baldwin

Dentistry
2022 (1)
Melodie Weller

Education
2022 (1)
José Gutiérrez
2023 (1)
Lauren Barth-Cohen

Engineering
2022 (5)
Jacob George
Jan Kubanek
Sameer Patil
Jason Wiese
Haohan Zhang
2023 (5)
Jacob George
Alex Novoselov
Sameer Patil
Roseanne Warren
Haohan Zhang

Health
2022 (3)
Skyler Jennings
Bradley King
Anandh Babu Pon Velayutham
2023 (5)
Genevieve Albouy
Rajeshwary Ghosh
Rhonda Nelson
Jeff Rose
Kota Takahashi

Humanities
2022 (1)
Matthew Basso
2023 (3)
Jennifer Andrus
Maile Arvin
Crystal Lumpkins

Medicine
2022 (10)
Owen Chan
Scott Collingwood
Gregory Ducker
Ram Gouripeddi
Adam Hughes
Joseph Kim
Anne Kirchhoff
Amy Lenz
Erin McGlade
James VanDerslice
2023 (15)
Amanda Bakian
Kelly Baron
Kanokwan Bunsawat
Dipayan Chaudhuri
Julio Facelli
Mia Hashibe
Kylie Jacobs
Amy Lenz
Xiaodong Ma
April Mohanty
Kola Okuyemi
Brock O'Neil
George Vega Yon
Megan Williams
Zachary Wilson

Mines & Earth Sciences
2022 (2)
Daniel Mendoza
Xuming Wang
2023 (1)
Leif Anderson

Nursing
2023 (1)
Djin Tay

Pharmacy
2022 (1)
Shreya Goel
2023 (1)
Nitish Khurana

Science
2022 (4)
William Anderegg
Regina Frey
James Gagnon
Joshua Steffen
2023 (4)
Connor Bischak
Shanti Deemyad
Regina Frey
James Gagnon

Social & Behavioral Science
2022 (2)
Lisa Diamond
Brennan Payne
2023 (8)
Tabitha Benney
Juliet Carlisle
David De Micheli
Sara Grineski
Cory Inman
Brennan Payne
Phillip Singer
Rebecca Utz

Social Work
2022 (1)
Tiffany Baffour
NOTE
Data captured in this report reflects programs and activities between 2015 and 2023, with particular emphasis on 2022 to 2023 academic year.
Questions? Contact Dr. Annie Isabel Fukushima at our@utah.edu or visit our.utah.edu.