Undergraduate Studies

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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About OUR

OUR Brief Story

Office of Undergraduate Research is housed in Undergraduate Studies at the University of Utah. In 1987, the Undergraduate Research Opportunities Program (UROP) was launched. In 2012, the program officially became the Office of Undergraduate Research. In 2021, the OUR hired its first woman of color Associate Dean of Undergraduate Studies and Director of the Office of Undergraduate Research, Annie Isabel Fukushima. OUR is committed to supporting all undergraduate researchers at the University of Utah by collaborating with faculty and staff of the 18 colleges, units within Undergraduate Studies, the Office of the Vice President for Research (VPR), Equity, Diversity & Inclusion, and other offices across campus. OUR is a leader in fostering RI commitments to innovation and research through supporting faculty collaborations with undergraduate researchers. As a leader in undergraduate research in the state, OUR fosters partnerships with Utah System of Higher Education institutions.
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 Mission**

**OUR Team**

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

**Gauri Garg**  
Undergraduate Research Leader

**Cindy Greaves**  
Program Manager

**Megan Shannahan**  
Academic Program Manager

**Sandra Luo**  
Undergraduate Research Advisor

**Shiver**  
Academic Program Manager

**Emi Wickens**  
Undergraduate Research Leader

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**Undergraduate Research Leaders**  
**2022 - 2023**  
Joshua Chang  
Mary Fairbanks  
Gauri Garg  
Eliana Massey  
Melika Moeinvaziri  
Sophie Stephens  
Sarthak Tiwari  
Emi Wickens

**Undergraduate Research Leaders**  
**2021 - 2022**  
Daniel J Anderson  
Gauri Garg  
Emmalyn Irvin  
Henry Ponce-Orellana  
Emi Wickens
OUR Data in Brief
2021 - 2022

- 596 Students Funded (UROP, SPUR, Scholarship & Travel & Small Grants)
- 399 Research Mentors
- 582 Student Presenters (URS, ROCH, UCUR, NCUR)
- 116 Published in the OUR Journal
- 429 Students Received Research Advising
- 1,787 Attendees of the Undergraduate Research Education Series
- 1,045 People Reached In-Person
- 232,216 People Outreached on Social Media
Objective 01. Enhancing the Teaching, Learning, Research, and Innovation Environments

Grants & Awards for Undergraduate Research
- 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 2021 – 2022 academic year, OUR funded 596 undergraduate researchers at the University of Utah.

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

In pursuit of excellence, we recognize outstanding undergraduate researchers during an annual awards ceremony that comprises of recognizing the Outstanding Undergraduate Researcher Awardee, scholars funded by OUR in partnership with our donors of the Dee Foundation, the Francis Family Fund, and the Parent Fund.

Research Advising

OUR provides research advising to students at all stages of their research journey.
Support Faculty & Student Collaborations
- Summer Program Partnerships
- OUR Program Partners
- Faculty Affiliates

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

Research Education & Educational Outreach
- Undergraduate Research Education Series (URES)
- Undergraduate Research Symposia (URS) – Fall (On-line) and Spring (In-person), Summer (In-person)
- Utah Conference on Undergraduate Research (UCUR), and the National Conference on Undergraduate Research (NCUR)
- Research on Capitol Hill (ROCH)
- Undergraduate Research Journal

The learning environment is further enhanced with educational opportunities through the Undergraduate Research Education Series where students attend educational workshops that will enhance their knowledge about doing research.

OUR fosters research innovation through publication and student presentations. Additionally, students are eligible to receive a research designation in their transcript pending the completion of two semesters of research, presentation of their findings at an Undergraduate Research Symposium, and publication of an abstract or excerpt of their work in the Undergraduate Research Journal.

OUR organizes multiple opportunities for students to present their research: the Undergraduate Research Symposia (semester-based), Research on Capitol Hill, and Utah Conference of Undergraduate Research.
Grants & Awards
2021 - 2022 Academic year

Between 2021 and 2022, the Office of Undergraduate Research funded approximately 600 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.

Research, Civic Responsibility, & Quality of Life - Supporting Diverse Majors
2015–2022*

<table>
<thead>
<tr>
<th>Major</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEM</td>
<td>2,636</td>
</tr>
<tr>
<td>Health &amp; Medicine Research</td>
<td>1,091</td>
</tr>
<tr>
<td>Research on Global Issues</td>
<td>272</td>
</tr>
<tr>
<td>Research on Environmental Studies</td>
<td>172</td>
</tr>
<tr>
<td>Equity &amp; Diversity Research</td>
<td>82</td>
</tr>
</tbody>
</table>

*Numbers based on majors—more students may study these topics. Currently there isn’t a systematic way to capture the data beyond major.

The average number of students funded over the past 7 years: **644 per year**
Total funded since 2015: **4,513**
In 1987, the Office of Undergraduate Research was founded with the creation of UROP (Undergraduate Research Opportunity Program). UROP student researchers work with a faculty mentor, where 18 colleges participate in mentoring UROP scholars. In 2021 - 2022, 483 scholars received a $1,200 taxable stipend for their research experience. UROP is awarded every semester. UROP scholars receive research advising, attend the Undergraduate Research Education Series (workshops and presentations), and present their findings at the Undergraduate Research Symposia. UROP scholars successfully meet OUR learning objectives regarding working collaboratively, identifying appropriate methodologies, utilizing previous research, effectively presenting research, articulating research questions, meeting field standards for responsible research and reflecting on research.

"My undergraduate research experience has enhanced my passion for research and motivated me to apply to graduate school, to continue in science and find answers to the scientific questions I'm most interested in. Aside from that, I think that everyone should try out a bit of research experience, even if they don't plan on attending graduate school or other post-bac professional schooling. I enjoy the collaboration between undergrads, grad students, post-docs, and professors (it boosts my confidence in what I do), as well as the fun environment of leading a research project." —UROP Scholar.

"As a UROP student, I have learned so much about problem-solving and experiment design. I have gained an understanding of how to respond to challenges and assure that all goals are met"
—UROP Scholar, Junior, Chemical Engineering

"Exposure to undergraduate research is one of the primary reasons I chose to attend the U of U. Not only has my participation in research taught me a lot about what future career paths may interest me most, but it’s raised my confidence levels immensely"
—UROP Scholar, Junior, Chemistry
UROP Successful Learning Outcomes

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

UROP Scholars agree: because of the research experiences, they can:

- 96% Work collaboratively with other researchers
- 98% Identify & utilize previous research
- 98% Identify appropriate methodologies
- 97% Effectively present research
- 97% Articulate a research question or creative objective
- 98% Meet the fields standard for responsible conduct in research
- 97% Reflect on research and make future plans because of this experience
- 97% Meet the fields standard for responsible conduct in research
- 99% Articulate a research question or creative objective

UROP mentors agree: because of the research experience, their mentees are able to:

- 96% Identify appropriate methodologies
- 96% Identify & utilize previous research
- 90% Effectively present research
- 99% Work collaboratively with other researchers
- 97% Meet the fields standard for responsible conduct in research
- 97% Reflect on research and make future plans because of this experience

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

Summer Program for Undergraduate Research provides students with a competitive summer research experience where students are paid for 10 weeks to immerse into a full-time summer experience 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.

13 Summer Program Partners
- 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

45 SPUR Scholars

181 Students

154 Faculty

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Building Skills with SPUR

“I entered the program thinking of research as a box that I needed to check. I would always think to myself, “I want to be a clinician, research is just one more thing I have to do to get there.” However, SPUR has opened my eyes to the fact that research is not only beneficial, but in my opinion absolutely necessary for anyone that wants to pursue a career in this field. I feel that by spending time here I have a far better grasp on the techniques and theories behind what I will hopefully do someday. And on a personal note, this has been so much fun! ... this was an amazing opportunity to freely investigate my interests while also exchanging enthusiasm and curiosity with my peers. This has been a truly incredible experience that has opened broadened my horizons.”

–Senior, Health, Society, and Policy, SPUR Scholar
## 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 experience, they now can:**

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Skill Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>96%</td>
<td>Identify appropriate methodologies</td>
</tr>
<tr>
<td>100%</td>
<td>Identify &amp; utilize previous research</td>
</tr>
<tr>
<td>100%</td>
<td>Effectively present research</td>
</tr>
<tr>
<td>100%</td>
<td>Work collaboratively with other researchers</td>
</tr>
<tr>
<td>96%</td>
<td>Articulate a research question or creative objective</td>
</tr>
<tr>
<td>94%</td>
<td>Meet the fields standard for responsible conduct in research</td>
</tr>
<tr>
<td>94%</td>
<td>Reflect on research and make future plans because of this experience</td>
</tr>
</tbody>
</table>

**100% SPUR mentors agree: because of the research experience, 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

Likert Scale self-reporting: Strongly Disagree to Strongly Agree
OUR recognizes that essential to supporting undergraduate research is providing students with opportunities to travel to research sites and student participation in a national conference. Additionally, students may not have the resources needed to support their research. Therefore, every month the OUR reviews student applications for travel and small grants. In collaboration with student evaluators (the Undergraduate Research Leaders), the OUR funds students for travel and small grants. In the fall 2021, under new leadership the OUR increased small grants from $250 to $500. Students could request up to $500 in travel and small grants.
The 2022 OUR Awards Ceremony was hosted for the first time as a hybrid event. Video content recognizing donors was created and the event was live-streamed. Coverage of the ceremony and week-long activities of undergraduate research events, including the Undergraduate Research Symposium, appeared in @theU.
2022 OUTSTANDING UNDERGRADUATE RESEARCHER Awardees

Listed alphabetically by college

Samantha Eddy (Mentor: Professor Shundana Yusaf)
**College of Architecture & Planning**

Rachel Nelson (Mentor: Professor Sankar Srinivasan)

**David Eccles School of Business**

Joshua Christensen (Mentor: Professor Lisa Diamond)
**School for Cultural & Social Transformation**

Sophia Boehler (Mentor: Professor Melodie Weller)
**School of Dentistry**

Sarah Orozco (Mentor: Professor Veronica Valdez)
**College of Education**

Katrina Le (Mentor: Professor Thomas Zangle)
**College of Engineering**

Comstock (Mentor: Professor Brian Snapp)
**College of Fine Arts**

Abby Laskey (Mentor: Professor Jeffrey Rose)
**College of Health**

Casey McFarland (Mentor: Professor Jennifer Alderden)
**Honors College**

McKay Muhlestein (Mentor: Professor Natalya Kuznetsova)
**College of Humanities**

Kailee Ferret (Mentor: Professor Leslie Francis)
**S.J. Quinney College of Law**

Avery Abelhouzen (Mentor: Professor Joseph Yost)
**School of Medicine**

Alex Dzubay (Mentor: Professor Kristine Pankow and Jeff Moore)
**College of Mines & Earth Sciences**

Kari Stoddard (Mentor: Professor Lisa Taylor Swanson)
**College of Nursing**

Macey Smith (Mentor: Professor Amy Barrios)
**College of Pharmacy**

Elijah Counterman (Mentor: Professor Sean Lawley)
**College of Science**

Emmanuel Diaz (Mentor: Professor Katie Baucom)
**College of Social & Behavioral Sciences**
Scholarships

OUR is successful because of the donors supporting our scholarships. For the 2021 - 2022 year, OUR awarded 20 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 4, 2022.

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.

- **Cloe Butler** (Mentor: Ana Antunes, Transform)
- **Kendal Chatard** (Mentor: Tim Webster, Social & Behavioral Science)
- **Shaistah Din** (Mentor: Marissa Diener, Social & Behavioral Science)
- **Gauri Garg** (Mentor: Adam DeHavenon, Medicine)
- **Wyatt Hudgens** (Mentors: Jim Curry and Juliet Carlisle, Social & Behavioral Science)
- **Sarah Orozco** (Mentor: Veronica Valdez, Education)
- **Sohyun Park** (Mentor: Annie Isabel Fukushima, Transform)
- **Madeleine Sorenson** (Mentor: Rebecca Utz, Social & Behavioral Science)
#### 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.

- **Elle Gaudette** (Mentor: Peter Fino, Health)
- **Heather Graham** (Mentor: Kim Hackford-Peer, Transform)
- **Anika Isom** (Mentor: Ben Christensen, Medicine)
- **Madeleine Jensen** (Mentor: Ram Goel, Science)
- **Kai Pruyn** (Mentor: Tommaso Lenzi, Engineering)
- **Madeleine Sorenson** (Mentor: Rebecca Utz, Social & Behavioral Science)
- **Zakary Wankier** (Mentor: Sarina Sinclair, Medicine)

#### 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.

- **Pooja Annigeri** (Mentor: Nitin Phadnis, Science)
- **Abby Citterman** (Mentor: Jake George, Engineering)
- **Dillon Fehlau** (Mentor: Tao Gao, Engineering)
- **Lauren Hulse** (Mentor: Nitin Phadnis, Science)
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).

2022 Monson Prize Awardee

Kassie John (Professor Elpitha Tsoutsounakis, College of Architecture & Planning)

DINÉ BIZAAD LANGUAGE CUBES: EXAMINING THE REFORMATION OF INDIGENOUS LANGUAGE PRESERVATION

"Language is key to understanding cultural values and imperative to sustaining a community’s cultural identity. Diné Bizaad Language Cubes explore ways to redesign how the Diné language is taught and preserved for my Diné. This design research project was an opportunity to ‘protect’ my Indigeneity (ways I identify as an Indigenous person) and to help ‘contain’ the Diné language for future generations to come. Diné Bizaad Sound Cubes is a tool for Diné youth and their communities to initiate their own “play” while aiding in the development of initial phonemes with Diné Bizaad pronunciation, reclaiming our pre-colonial ways of language acquisition through oral teachings" - Kassie John, Monson Prize Awardee 2022
OUR provides research advising. Staff and peer mentors connect students to opportunities, assists students with questions they have about applying for funds, or how they may go about finding an opportunity. During the spring 2022, OUR implemented mandatory advising for UROP scholars, growing the number of advising appointments by 135%. Overall, students are satisfied with advising, with nearly half planning on applying for funds again and 41% graduating, therefore, no longer eligible for future funds.

“I was thoroughly surprised how helpful the advising meeting was! At first, I was bothered by having an added requirement, as I am already a very busy and stressed person. But once I began talking to [the research advisor], I realized how easy and simple of a task it was, and just how helpful it could be.”

– Research Advisee, Biology

“[The advisor] was very nice and enthusiastic when talking about my research project. She also shared lots of resources with me regarding diversity/POC funding or events to get involved with. As a POC this was super helpful and until my conversation with her I didn’t know about those resources. She’s awesome!”

– Research Advisee, Speech and Hearing Science senior (class of 2022)

“I definitely gained a sense of belonging in the research realm thanks to [OUR research advising].”

– Research Advisee, Ethnic Studies senior (class of 2022)

Students are surveyed after receiving advising

<table>
<thead>
<tr>
<th>Undecided About Future Funding</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduating</td>
<td>41%</td>
</tr>
<tr>
<td>Plan to Apply for Future Funding</td>
<td>48%</td>
</tr>
</tbody>
</table>

429 Students Advised

2021 – 2022
Avg. 294 per year
+135%

93% of Students Satisfied with Research Advising

Spring 2022
29 Surveyed
Faculty mentors are central to fostering student success in undergraduate research. Every year, the Office of Undergraduate Research works with faculty and staff mentors where they serve as research mentors on projects or as reviewers of student applications. To support faculty–student mentoring relationships, during the 2021 - 2022 academic year, OUR expanded the Summer Program Partnerships.

The Office of Undergraduate Research announced the creation of the OUR Programs Partnership in spring 2022. To grow opportunities for faculty, staff, and undergraduate researchers to learn about opportunities and potential cross campus collaborations, OUR Program Partners meet 4 times a year.

OUR Program Partners:
- Are funded internally or externally to conduct research
- Collaborate with undergraduate researchers
- Encourage a team-oriented research process (team may include faculty, staff, and students)

2021 - 2022 activities supporting partners:
- Support with grant applications
- Hiring and Onboarding Undergraduate researchers
- Collaborating with Undergraduate Researchers at the U
- Field research information
- Remote Undergraduate Research Mentoring guidelines
Education & Presentation Opportunities

OUR provides students opportunities to present their research findings. This includes presenting at the Undergraduate Research Symposia (every semester), Research on Capitol Hill, and at a state or national conference (Utah Conference for Undergraduate Research and the National Conference for Undergraduate Research. Due to the global pandemic, symposia event participation was lower than previous years.

To supplement educational content, OUR also provides the Undergraduate Research Education Series. To accommodate remote learning, all events were offered online and during the spring semester of 2022, as hybrid events. OUR witnessed a growth in participation with online education due to the availability of remote participation.

<table>
<thead>
<tr>
<th>50</th>
<th>497</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCUR / NCUR Presenters Funded</td>
<td>Undergraduate Research Symposia Presenters</td>
<td>Participants in Research on Capitol Hill</td>
</tr>
</tbody>
</table>

1,787 Education Series Total Attendees
The First Undergraduate Research Education Series was hosted in fall 2014. Beginning in the Spring 2022, sessions were categorized by tracks to help students identify which event would be useful for their research goals.

To foster greater on-demand participation online, OUR has been working with University Marketing & Communications (UMC) to renovate the website to create a more user friendly interface with easy access for visitors to engage with OUR educational content.

28 Sessions  
2021–2022  
19 Research Basics & Skill building  
9 Social Justice & Ethics  
13 Research Collaboration & Communication  
9 Careers & Research

"I really enjoyed the seminar series. They provided incredibly helpful advice, especially for me as I was applying to graduate school this semester"  
—URES Attendee, Senior, Biology

"I really like the undergraduate research event series. The presentations I watched were highly educational. I've found each of them very applicable and inciteful in starting out my career as a researcher"  
—URES Attendee, Senior, Atmospheric Sciences
The First Undergraduate Research Symposium was hosted during the Spring of 2004. The OUR Undergraduate Research Symposium 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. For spring 2022 OUR organized the first return to in-person events while supporting virtual presentations as well. To increase diverse participation, the symposium is offered for all three semesters: summer, fall, and spring. OUR Spring 2023 will be organized in partnership with UCUR 2023 and will occur earlier in the semester.

Summer 2021
202 presenters
Virtual on Gathertown

Fall 2021
35 presenters
Virtual

Spring 2022
260 presenters
in-person & virtual

"I am so happy to have gotten the chance to work with your esteemed faculty and staff"
—SPUR Scholar, 2021
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 2021**
- 202 Presenters
- 41 Poster evaluators
- 149 Poster evaluations

<table>
<thead>
<tr>
<th>Skill</th>
<th>Mastered</th>
<th>In Process of Learning Outcome</th>
<th>Early Stages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify &amp; Utilize Previous Research</td>
<td>57%</td>
<td>40%</td>
<td></td>
</tr>
<tr>
<td>Articulate a Research Question</td>
<td>78%</td>
<td>28%</td>
<td></td>
</tr>
<tr>
<td>Identify Appropriate Methodologies</td>
<td>63%</td>
<td>35%</td>
<td></td>
</tr>
<tr>
<td>Present Research Effectively</td>
<td>65%</td>
<td>32%</td>
<td></td>
</tr>
</tbody>
</table>

**Fall 2021**
- 35 Presenter
- 23 Poster evaluators
- 100 Poster evaluations

<table>
<thead>
<tr>
<th>Skill</th>
<th>Mastered</th>
<th>In Process of Learning Outcome</th>
<th>Early Stages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify &amp; Utilize Previous Research</td>
<td>50%</td>
<td>43%</td>
<td></td>
</tr>
<tr>
<td>Articulate a Research Question</td>
<td>60%</td>
<td>38%</td>
<td></td>
</tr>
<tr>
<td>Identify Appropriate Methodologies</td>
<td>62%</td>
<td>36%</td>
<td></td>
</tr>
<tr>
<td>Present Research Effectively</td>
<td>63%</td>
<td>37%</td>
<td></td>
</tr>
</tbody>
</table>

25 point scale: 0 - 10 earliest stages of development; 11 - 19 in the process of learning the outcome; 20 - 25 - mastered learning outcome.
**Spring 2022**
260 Presenters  
56 Poster evaluators  
334 Poster evaluations

- Identify & Utilize Previous Research: 62% Mastered, 34% In Process of Achieving Mastery, 25% Early Stages
- Articulate a Research Question: 65% Mastered, 31% In Process of Achieving Mastery, 34% Early Stages
- Identify Appropriate Methodologies: 64% Mastered, 32% In Process of Achieving Mastery, 36% Early Stages
- Present Research Effectively: 70% Mastered, 27% In Process of Achieving Mastery, 33% Early Stages

**2021–2022**
497 Presenters  
120 Poster evaluators  
583 Poster evaluations

- Identify & Utilize Previous Research: 59% Mastered, 37% In Process of Learning Outcome, 24% Early Stages
- Articulate a Research Question: 66% Mastered, 32% In Process of Learning Outcome, 32% Early Stages
- Identify Appropriate Methodologies: 64% Mastered, 34% In Process of Learning Outcome, 32% Early Stages
- Present Research Effectively: 67% Mastered, 30% In Process of Learning Outcome, 35% Early Stages

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25 point scale: 0 - 10 earliest stages of development; 11 - 19 in the process of learning the outcome; 20 - 25 - mastered learning outcome
Research on Capitol Hill (ROCH)

February 8, 2022
24 presenters

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 from the top two 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. On March 2nd, at the invitation of interim vice president for research Erin Rothwell, undergraduate researchers Madeleine Sorenson and Gauri Garg presented to faculty and campus leadership about their experiences presenting at ROCH.
The 16th annual Utah Conference on Undergraduate Research (UCUR) was hosted at Utah Tech University (formerly known as Dixie State University). In 2007, the first UCUR was hosted at University of Utah and returns to the U in 2023. University of Utah is hosting UCUR 2023 with co-chairs: Annie Isabel Fukushima, Cindy Greaves, and Megan Shannahan. In partnership with Undergraduate Studies, college partners across the campus, and the VPR Office, UCUR 2023 promises to be a successful event with student participants from USHE institutions.
2022 marks 22 years of undergraduate research publications with the Office of Undergraduate Research Undergraduate Research Journal. In volume 22, the diverse research titles reflect the depth of research. Undergraduate research is fostered through a will to find an answer to a research question, presenting findings to receive feedback, mentoring relationships, and the application of research. Publishing undergraduate research projects in this journal provides a window into the high impact practice of mentoring the future of research. The fall 2022 Undergraduate Research Journal issue highlights hope, curiosity, and endeavors to resolve to find solutions to contemporary and historical pressing questions.

Undergraduate Research Scholar Designation (URSD)

The Undergraduate Research Designation was created in fall 2006. The Undergraduate Research Scholar Designation (URSD) recognizes a student’s commitment to their development as a researcher during their undergraduate career. The designation appears in the awards section of the transcripts for graduating students. URSD awardees receive a white research cord from the Office of Undergraduate Research to wear at convocation and commencement.
The OUR accomplished through outreach and research advising. OUR outreach includes tabling and classroom presentations. Beginning in the spring of 2022, OUR events returned to in-person after a hiatus with remote programming to foster public health concerns regarding COVID-19. The shift to virtual options during the pandemic created an opening for adapting outreach activities. The office increased its social media presence and is reaching more students via Twitter, Instagram, Facebook, and email. In partnership with Anne Dibble (Undergraduate Studies Communications), OUR was able to revamp its social media assets to promote content online.

**31**
**Events**
**Attended for Outreach**
2021 - 2022  
Average 65 per year

1,045  
**Reached In-Person**  
(Tabling at Events and Classroom presentations)  
2021 - 2022  
Avg. 1,744 per year

231,216  
**Outreached on Social**  
2021 - 2022
Objective 02. From Graduation to Graduate School

A central goal for OUR is to provide an undergraduate to graduate school pipeline. For the past 4 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 23, 2022 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.

22% intended to go to graduate school
n=5,650 between 2015 - 2022
OUR Students graduate in 4.28 years, showcasing that students who participate in research are more likely to complete closer to 4 years.

Data reflects all OUR programs and activities: UROP, SPUR, URS, URES, and Advisees.
Objective 03. Diversity in Research & 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. 7% of OUR funded students (Funding: UROP, SPUR, URL, Travel & Small Grants) are in their 1st or 2nd years of their academics. This means, the program is successful in supporting students as they advance 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

Spring 2021 & 2022

<table>
<thead>
<tr>
<th></th>
<th>39 Students Registered</th>
<th>100% Satisfied with the Course</th>
<th>100% Recommend the Course</th>
</tr>
</thead>
</table>

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 the spring 2021 and 2022. The course fulfills general education requirements: Applied Sciences [AS] and Social & Behavioral Science [BF]. Content students experience includes research fundamentals and skill building for research.
Supporting Diversity & Equity in Undergraduate Research

In order to promote equity in learning and research, it is essential for OUR to capture racial and gender 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, 25% of OUR participants are transfer students, students who are more likely to be first generation, pell eligible or students of color.

Participants Race (2015 - 2022)

OUR Participants
31.9% BIPOC*

Racial demographics 2015 - 2022
n=18,627 participants
BIPOC: Black, Indigenous, and People of Color including Mixed-Race, Hispanic/Latine, Pacific Islander
Please note: gender-minorities, gender-non-conforming students participate in OUR programs. However, the above data is collected from OBIA.

Transfer Students (2015 - 2022)
Objective 04. Grant Application & Fundraising Efforts

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 21, 2022 #UGivingDay. Additionally, associate dean Fukushima wrote letters of support for 6 external grants submitted by faculty at the University of Utah, reflecting efforts to encourage more faculty applying for external grants by including undergraduate researchers in their budgets.

The OUR is also pursuing federal grant opportunities to diversify the funding supporting the office, students, and faculty collaborations.
OUR 2022 - 2023 Goals

Data-Informed Decisions
- Understand trends with first-generation and Pell-eligible participants.
- Learn more about diversity of students participating in research activities and taking research courses at the U.
- Create a research attribute to follow trends of courses that offer undergraduate research that then lead students to participate in research opportunities (paid and unpaid).

Grow Research Inclusion
- Grow number of participants from diverse backgrounds of first generation, students of color (in particular Latinx and Pacific Islander), gender minorities, low-income, and 1st and 2nd-year students in accessing opportunities.
- Grow diversity in mentors and strengthen partnerships with existing mentors.

Strengthen Mentoring Partnerships and Collaborators
- Faculty Affiliates of OUR. During the fall of 2023, OUR launched the faculty affiliates which makes visible on the OUR website OUR mentors with UROP and SPUR.
- OUR Mentor Award. OUR is partnering with leadership within Undergraduate Studies to create the Outstanding Undergraduate Researcher Mentor Award (OUR Mentor Award). More coming about this opportunity to recognize faculty mentors.
Acknowledgement: The Office of Undergraduate Research acknowledges that this land, which is named for the Ute Tribe, is the traditional and ancestral homeland of the Shoshone, Paiute, Goshute, and Ute Tribes. The University of Utah recognizes and respects the enduring relationship that exists between many Indigenous Peoples, American Indian, Native people, and their traditional homelands. We respect the sovereign relationship between tribes, states, and the federal government, and we affirm the University of Utah’s commitment to a partnership with Native Nations and Urban Indian communities through research, education, and community outreach activities.

There are many people to appreciate for their commitment to undergraduate research at the University of Utah. Appreciation to Undergraduate Studies leadership and staff: Chase Hagood, Anne Dibble, Mark St. Andre, Hunter Moreton, Lisa Nemelka, Dannielle Moriondo, Robert White, Jim Agutter, Debbie Matticks, Monica Kohler, Nicole Batt, Undergraduate Studies Interns, Cindy Greaves, Megan Shannahan, Shiver, Sandra Luo, and OUR Undergraduate Research Leaders of 2021–2022. OUR is also appreciative of our partners and the many threads that comprise the Office of Undergraduate Studies, including, but not limited to: Academic Advising, Transfer Student Success, MUSE, LEAP, the Office for First Generation Access, and the Bennion Center. OUR is incredibly grateful to the ongoing support from the Vice President of Research both VPR Andy Weyrich and Interim VPR Erin Rothwell, who have both prioritized undergraduate research as a central aspect of university’s research commitments. We have been so fortunate to have support from the highest level of the institution for 2021–2022, President Taylor Randall, the previous SVPAA Dan Reed, and Interim SVPAA Martell Teasley have been champions of undergraduate research. Other important partners the OUR have included Government & Relations, Equity, Diversity & Inclusion, the 18 Colleges and their communities, Student Affairs, and campus-wide partners. The Office of Undergraduate Research fosters cutting edge research because of faculty, staff and student collaborators across the University of Utah. We also recognize that research is supported by communities, chosen families, and the multiple mentors (from peer, to faculty, to staff) that surround a researcher. As an office of Undergraduate Studies we see our commitment to all students interested in research. Thank you to our donors, sponsors, partners, and collaborators for making this vision possible. There are so many people named and unnamed who are central to the success of undergraduate researchers. But most importantly, it is undergraduate students that we must applaud—it is a collaboration. We are honored to be a part of their academic journeys contributing to the robust academic and research life at the U.
APPENDIX A: List of UROP Scholars (Summer 2021 - Summer 2022)

Architecture & Planning (5)
Naren Anandh (Fall 2021)
Lexie Bingman (Fall 2021)
Natalie Caylor (Spring 2022)
Samantha Eddy (Summer 2021, Summer 2022)
Summer Furrer (Spring 2022)

Business (1)
Huong Mai (Spring 2022)

Cultural & Social Transformation (11)
Cloe Butler (Fall 2021)
Liuchen Chen (Fall 2021)
Sandra Del Rio Madrigal (Fall 2021, Spring 2022)
Thaiss Del Rio Sanchez (Fall 2021)
Lauren Harvey (Spring 2022)
Holden Jones (Spring 2022)
Frances Lucas (Spring 2022)
Sanila Math (Spring 2022)
Mariah Montoya (Spring 2022)
Miles Smith (Spring 2022)
Moala Solomone - Halaeua (Spring 2022)

Dentistry (3)
Sophia Boehler (Fall 2021 and Spring 2022)
Jordan Cutshall (Fall 2021 and Spring 2022)
Summer Furrer (Fall 2021 and Spring 2022)

Education (3)
Mckenzie Fleming (Fall 2021 and Spring 2022)
Benjamin Searle (Summer 2022)
Mary Smith (Spring 2022)

Engineering (110)
Issak Allaire-MacDonald (Summer 2021)
Nicolai Andreas (Fall 2021 and Summer 2021)
Marissa Angell (Summer 2021)
Drew Becker (Fall 2021 and Spring 2022)
Anna Bell (Summer 2021)
Kian Ben-Jacob (Fall 2021 and Spring 2022)
Sophia Blankevoort (Spring 2022)
Anna Busatto (Fall 2021 and Summer 2021)
Henry Cagle (Fall 2021)
Miranda Cardenas Spring 2022)
Bryce Cheek (Fall 2021)
Carter Christensen (Fall 2021 and Spring 2022)
Ping Cheng Chung (Summer 2021)
Abigail Citterman (Fall 2021)
Clara Coffey (Spring 2022)
Nicholas Colt (Fall 2021)
Aaron Coon (Summer 2022)
Aidan Copinga (Fall 2021 and Summer 2021)
James Craig (Summer 2022)
Lorenz Cushman (Fall 2021 and Spring 2022)
Bailey Doucette (Fall 2021 and Summer 2021)

Engineering cont
Collin Dover (Summer 2022)
Kaylon Draney (Spring 2022)
Spencer Eiting (Fall 2021)
Dillon Fehlau (Fall 2021 and Summer 2021)
Tanner Frahm (Summer 2022)
Alexis Friedman (Summer 2022)
Ethan Gallup (Summer 2021)
William Graham (Fall 2021)
Ezekiel Green (Spring 2022)
Nicholas Greger (Spring 2022)
Cleo Hancock (Fall 2021)
Colin Hancock (Summer 2021)
Kaysen Hansen (Summer 2022)
Alyssa Harpring (Fall 2021 and Spring 2022)
Abigail Harrison (Fall 2021 and Spring 2022)
Liam Haynie (Summer 2022)
Colin Hinchman (Fall 2021)
Jacob Hirst (Spring 2022)
Lindi Hopkins (Spring 2022)
Jude Horsley (Spring 2022)
Mason Jacketta (Spring 2022)
Nathan Jensen (Summer 2021)
Hannah Khelfa (Summer 2021)
Wona Kim (Summer 2022)
Jonas Knochelmann (Summer 2022)
Olivia Lam (Fall 2021)
Charles Lambert (Fall 2021)
Alan Larrea Caro (Spring 2022)
Alexandra Leavitt (Summer 2022)
Kaylen Lee (Spring 2022)
Shiyang Li (Fall 2021)
Sabrina Lin (Summer 2022)
Robert Lindemann (Spring 2022)
List of UROP Scholars Continued

**Engineering cont**

Emily Lym (Summer 2022)
Angelica Madsen (Fall 2021 and Spring 2022)
Vista Marston (Summer 2021 and Fall 2021)
Garrett McClellan (Spring 2022)
James McMahon (Fall 2021)
Colin McNabb (Summer 2021)
Cameron Mercer (Summer 2021 and Spring 2022)
Braden Miles (Fall 2021)
Alberto Miranda (Summer 2021 and Spring 2022)
Sara Morrison (Fall 2021)
Caden Myers (Fall 2021)
Alexandra Neubauer (Summer 2021)
Quinna Nguyen (Summer 2022)
Braedon Olsen (Fall 2021 and Spring 2022)
Andrew Osterhout (Fall 2021)
Crysta Oswald (Summer 2021)
Tavie Parker (Fall 2021 and Spring 2022)
Samuel Partridge (Summer 2021)
Adriana Payan-Medina (Spring 2022)
Jeffrey Perry (Fall 2021)
Emma Pinegar (Fall 2021)
Kennedy Powell (Summer 2021)
Nathan Ramey (Summer 2022)
David Rou (Summer 2022)
Gabriel Santana (Fall 2021)
Tanner Short (Fall 2021)
Gabriel Shuster (Fall 2021)
Ali-Abbas Sial (Spring 2022)
Andre Stieja (Fall 2021)
Rian Simpson (Summer 2021)
Dawson Slaughter (Spring 2022)
Erick Solum (Fall 2021)
Micah Spjute (Summer 2022)
Megan Sterrett (Summer 2021)

**Engineering continued**

Alexander Stevens (Fall 2021)
Sabrina Su (Fall 2021 and Spring 2022)
Gnimdo Tako (Summer 2021)
Payton Thomas (Fall 2021)
Claire Ticknor (Summer 2021)
Sarthak Tiwari (Fall 2021)
Anya Tiwari (Spring 2022)
Michael Turja (Fall 2021)
Rebecca Urban (Summer 2021 and Spring 2022)
Bailey Van Wagoner (Spring 2022)
Vincent Veibell (Spring 2022)
Olivia Walker (Fall 2021 and Spring 2022)
Shiyu Wang (Spring 2022)
Tyler Whitley (Spring 2022 and Summer 2022)
Elizabeth Winterholler (Spring 2022)
Breanna Wong (Spring 2022 and Summer 2022)
Elaine Wong (Summer 2021 and Fall 2021)
Derrick Wong (Summer 2021 and Fall 2021)
Jialin Wu (Fall 2021)
Anna Yarema (Summer 2022)
Sammi Yu (Spring 2022 and Summer 2022)
Jared Zollinger (Fall 2021 and Spring 2022)

**Fine Arts (7)**

Yein Ji (Spring 2022 & Summer 2021)
Mara Magistad (Fall 2021)
Eleanor Otis (Summer 2021)
Makena Reynolds (Fall 2021)
Duke Ross (Spring 2022)
Brynn Staker (Spring 2022 & Fall 2021)
Leisina Wolfgramm (Summer 2022)

**Health (28)**

Hunter Carlson (Spring 2022)
Calvin Coates (Summer 2022)
Rachel Compton (Fall 2021 and Spring 2022)
Tala Hammond (Summer 2022)
Tyler Ho (Spring 2022)
Linnea Horvath (Spring 2022)
Broanna Ingersoll (Spring 2022 and Summer 2022)
Serena Jones (Summer 2021 and Fall 2021)
Sophia Loose (Spring 2022)
Teasha Luu (Fall 2021)
Kelly Mai (Fall 2021)
Michael Maio (Fall 2021)
Zachary Mallender (Spring 2022 and Summer 2022)
Thayer McCollum (Fall 2021 and Spring 2022)
Emmanuel Onyeagba (Summer 2022)
Evan Oro (Spring 2022)
Crystal Ortiz (Fall 2021 and Spring 2022)
Ryan Park (Spring 2022)
Andrew Payne (Fall 2021 and Spring 2022)
Tessa Petersell (Fall 2021 and Spring 2022)
Erick Solum (Fall 2021)
Micah Spjute (Summer 2022)
Payton Thomas (Fall 2021)
Claire Ticknor (Summer 2021)
Sarthak Tiwari (Fall 2021)
Anya Tiwari (Spring 2022)
Michael Turja (Fall 2021)
Rebecca Urban (Summer 2021 and Spring 2022)
Bailey Van Wagoner (Spring 2022)
Vincent Veibell (Spring 2022)
Olivia Walker (Fall 2021 and Spring 2022)
Shiyu Wang (Spring 2022)
Tyler Whitley (Spring 2022 and Summer 2022)
Elizabeth Winterholler (Spring 2022)
Breanna Wong (Spring 2022 and Summer 2022)
Elaine Wong (Summer 2021 and Fall 2021)
Derrick Wong (Summer 2021 and Fall 2021)
Jialin Wu (Fall 2021)
Anna Yarema (Summer 2022)
Sammi Yu (Spring 2022 and Summer 2022)
Jared Zollinger (Fall 2021 and Spring 2022)

**Fine Arts (7)**

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Mara Magistad (Fall 2021)
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Makena Reynolds (Fall 2021)
Duke Ross (Spring 2022)
Brynn Staker (Spring 2022 & Fall 2021)
Leisina Wolfgramm (Summer 2022)

**Health (28)**

Hunter Carlson (Spring 2022)
Calvin Coates (Summer 2022)
Rachel Compton (Fall 2021 and Spring 2022)
Tala Hammond (Summer 2022)
Tyler Ho (Spring 2022)
Linnea Horvath (Spring 2022)
Broanna Ingersoll (Spring 2022 and Summer 2022)
Serena Jones (Summer 2021 and Fall 2021)
Sophia Loose (Spring 2022)
Teasha Luu (Fall 2021)
Kelly Mai (Fall 2021)
Michael Maio (Fall 2021)
Zachary Mallender (Spring 2022 and Summer 2022)
Thayer McCollum (Fall 2021 and Spring 2022)
Emmanuel Onyeagba (Summer 2022)
Evan Oro (Spring 2022)
Crystal Ortiz (Fall 2021 and Spring 2022)
Ryan Park (Spring 2022)
Andrew Payne (Fall 2021 and Spring 2022)
Tessa Petersell (Fall 2021 and Spring 2022)
Erick Solum (Fall 2021)
Micah Spjute (Summer 2022)
Payton Thomas (Fall 2021)
Claire Ticknor (Summer 2021)
Sarthak Tiwari (Fall 2021)
Anya Tiwari (Spring 2022)
Michael Turja (Fall 2021)
Rebecca Urban (Summer 2021 and Spring 2022)
Bailey Van Wagoner (Spring 2022)
Vincent Veibell (Spring 2022)
Olivia Walker (Fall 2021 and Spring 2022)
Shiyu Wang (Spring 2022)
Tyler Whitley (Spring 2022 and Summer 2022)
Elizabeth Winterholler (Spring 2022)
Breanna Wong (Spring 2022 and Summer 2022)
Elaine Wong (Summer 2021 and Fall 2021)
Derrick Wong (Summer 2021 and Fall 2021)
Jialin Wu (Fall 2021)
Anna Yarema (Summer 2022)
Sammi Yu (Spring 2022 and Summer 2022)
Jared Zollinger (Fall 2021 and Spring 2022)
List of UROP Scholars Continued

Humanities (11)
Debora Brito de Andrade (Summer 2021)
James Conger (Spring 2022)
Kailee Ferret (Spring 2022)
McKinley Gough (Fall 2021 and Spring 2022)
Rachel Holland (Spring 2022 and Summer 2022)
Megan Lynch (Spring 2022)
Cody Page (Spring 2022)
Jessica Repman Johnson (Spring 2022)
William Shadley (Spring 2022)
Michaella Valenzuela (Fall 2021)
Anika Weaver (Fall 2021)

Medicine continued
Katerina Excell (Fall 2021 and Spring 2022)
Fatima Faizi (Spring 2022)
Jordyn Gagon (Spring 2022)
Shalyce Gardner (Summer 2022)
Erin Garzella (Summer 2021)
Rose Godfrey (Fall 2021)
Aleah Griffin (Fall 2021)
Ella Habbesha (Fall 2021)
Gabrielle Hadinger (Fall 2021 and Summer 2022)
Karah Hall (Fall 2021 and Spring 2022)
Olivia Hanson (Fall 2021 and Spring 2022)
Josh Hillyard (Fall 2021 and Summer 2022)
Jonathan Hong (Summer 2022)
Nathanael Hooper (Spring 2022)
Alicia Horn (Spring 2022)
McKenna Hunt (Fall 2021 and Summer 2022)
Alexander Ingold (Summer 2021)
Nathan Iverson (Summer 2022)
Howard Jacobson (Summer 2021)
Simran Karim (Spring 2022)
Shalini Kasera (Fall 2021)
Arianna LaLonde (Fall 2021)
Jack Landmesser (Summer 2022)
Joshua Larsen (Fall 2021)
Clara Lindley (Summer 2021 and Fall 2021)
Grace Liu (Spring 2022)
Seth Lunt (Fall 2021)
Zihao Lyu (Summer 2022)
Mitchell Mansell (Spring 2022)
Joshua Marchant (Fall 2021)
Cole Matteson (Fall 2021)
Matthew Michaud (Spring 2022 and Summer 2022)

Medicine continued
Raina Miller (Spring 2022 and Summer 2022)
Azeem Mohammed (Fall 2021 and Spring 2022)
Erika Muhlrad (Fall 2021)
Henry Nibley (Fall 2021)
Carter Niedert (Fall 2021)
Emily Nuibe (Fall 2021 and Spring 2022)
Sonresa Ochoa-Vidales (Fall 2021)
Amani Oumar (Summer 2021 and Fall 2021)
Yun Soo Park (Summer 2022)
Ethan Parker (Fall 2021)
Dainen Parry (Summer 2021 and Fall 2021)
Alan Prasad (Fall 2021)
Sarv Raafati (Summer 2021 and Fall 2021)
Ashlee Roberts (Spring 2022)
Stella Santa Ana (Fall 2021)
Dana Schiwal (Summer 2021 and Fall 2021)
Jada Kali Stelmach (Fall 2021)
Lindsey Stewart (Fall 2021 and Spring 2022)
Kishan Thambu (Fall 2021)
Ashley Thompson (Spring 2022)
Hannah Torabi (Fall 2021)
Emilio Trujillo (Summer 2022)
Markel Walter (Summer 2021 and Fall 2021)
Anya Weglarz (Spring 2022 and Summer 2022)
Jennie Wilson (Spring 2022)
Katherine Wright (Fall 2021 and Spring 2022)
YaFeng Xiong (Spring 2022)
# List of UROP Scholars Continued

## Mines & Earth Sciences (18)
- Aiden Beukema (Spring 2022)
- Stephanie Brock (Summer 2021)
- Garrett Butler (Summer 2022)
- Savannah Carpenter (Summer 2021)
- Dewi Eagan (Summer 2022)
- Madeleine Festin (Fall 2021)
- Brittny Hoskins (Fall 2021)
- Rachel Jorgensen (Fall 2021)
- Pauline Kneller (Fall 2021 and Spring 2022)
- Margaret Lelonek (Spring 2022)
- Annie Matzke (Summer 2021)
- Alec Phipps-Wirtz (Summer 2022)
- Mallory Scofield (Spring 2022)
- Sarah Smart (Summer 2021)
- Nancy Sohlberg (Summer 2022)
- Karrah Spendlove (Fall 2021 and Spring 2022)
- Nickolas Squire (Spring 2022)
- Ian Wixom (Fall 2021)

## Nursing (4)
- Sydney Gilliland (Summer 2021)
- Justin Ingraham (Fall 2021)
- Kimberly Ponce Gonzalez (Spring 2022)
- Kari Stoddard (Summer 2021 and Fall 2021)

## Pharmacy (11)
- Spencer Carstens (Summer 2022)
- Gabrielle Desjardins (Spring 2022)
- Adam Ford (Spring 2022)

## Pharmacy continued
- Marina Gerton (Fall 2021 and Spring 2022)
- Job Huxford (Spring 2022)
- Michelle Le (Fall 2021 and Spring 2022)
- Sonia Osuna (Summer 2022)
- Katelyn Pyper (Fall 2021 and Spring 2022)
- Miles Thomas (Summer 2022)
- Elise-Marie Vandamme (Summer 2021)
- Yunyue Zhang (Spring 2022)

## Science (60)
- Pooja Annigeri (Fall 2021)
- Maxwell Austin (Fall 2021 and Spring 2022)
- Dua Azhar (Fall 2021 and Spring 2022)
- Arnel Besic (Spring 2022)
- Bryce Bosworth (Summer 2022)
- Alison Bouck (Summer 2022)
- Michelle Cao (Summer 2022)
- Lilee Casselman (Fall 2021)
- America Cox (Summer 2022)
- Victoria Ding (Spring 2022)
- Hannah Doherty (Fall 2021)
- Drue Domagala (Spring 2022)
- Cannon Fehrenbach (Spring 2022)
- David Furness (Summer 2022)
- Kimberly Gamarra (Fall 2021)
- ANI GIOKAS (Fall 2021)
- Kenneth Goler (Summer 2021)
- Preston Harris (Spring 2022)
- Hailey Hauck (Summer 2021 and Spring 2022)
- Joshua Hill (Spring 2022 and Summer 2022)
- Alessandrina Hoffman (Spring 2022)
- Lauren Hulse (Summer 2021 and Fall 2021)

## Science continued
- Miles Jacob (Summer 2021 and Fall 2021)
- Harrison Jendrusch (Fall 2021)
- Caroline Keller (Spring 2022)
- Sameer Khan (Spring 2022)
- Daniel Koizumi (Spring 2022)
- Andrew Larkin (Spring 2022 and Summer 2022)
- Brooke Larson (Fall 2021 and Spring 2022)
- Hannah Lee (Summer 2022)
- Kevin Lutz (Summer 2021)
- Steven Marz (Summer 2021 and Fall 2021)
- Victoria Medvedeva (Spring 2022)
- Carl Mellor (Fall 2021 and Spring 2022)
- Ashley Merrell (Summer 2021)
- Ethan Murdock (Summer 2021 and Fall 2021)
- Benjamin Natividad (Summer 2021 and Spring 2022)
- Christopher Nelson (Spring 2022)
- Samantha Nestel (Spring 2022)
- Kiyo Obayashi (Fall 2021 and Spring 2022)
- Ava Peitz (Summer 2021 and Spring 2022)
- Gary Perea (Fall 2021 and Summer 2022)
- Mikal Peterson (Summer 2022)
- Julia Petheram St. Andre (Summer 2022)
- Olivia Pratt (Spring 2022)
- Charlotte Randolph (Summer 2021)
- Charlotte Randolph (Fall 2021)
- Jackson Ridges (Fall 2021 and Spring 2022)
- Ana Rowe (Summer 2022)
- Summer Soller (Spring 2022)
- Sarita Som (Spring 2022)
- Mitchell Spendlove (Summer 2022)
List of UROP Scholars Continued

**Science continued**
Ella Spurlock (Spring 2022)
Sophie Steckel (Spring 2022)
Bassel Tekarli (Spring 2022)
Maya Wagner (Summer 2021 and Fall 2021)
Marc Whiting (Spring 2022 and Summer 2022)
Claudia Wiese (Spring 2022)
Ding Wu (Fall 2021 and Spring 2022)
Nikolai Zarandona (Summer 2022)

**Social & Behavioral Science continued**
Emily Adler (Spring 2022)
Tali Bauman (Summer 2021)
Karen Bennett (Spring 2022)
Allesandra Bergmark (Spring 2022)
Anya Biskupiak (Spring 2022)
Chloe Bokinskie (Spring 2022 and Fall 2021)
Alexander Brill (Fall 2021)
Joshua Christensen (Fall 2021)
Jessica Cuello (Spring 2022)
Maren Curtis (Fall 2021 and Spring 2022)
KC Ellen Cushman (Fall 2021)
Emily Davidge (Fall 2021)
Anna Carissa Delos Reyes (Fall 2021)
Shane Denherder (Spring 2022 and Summer 2022)
Emmanuel Diaz (Spring 2022)
Shaistah Din (Fall 2021)
Morrison Donovan (Summer 2021)
Morrison Donovan (Fall 2021)
Aidyn Eldredge (Fall 2021 and Spring 2022)
Bryce Fairbanks (Spring 2022)
James Faulkner (Summer 2021)

**Social Work (1)**
Morrison Donovan (Summer 2021, Fall 2021)
APPENDIX B: List of Faculty Mentors—UROP (Summer 2021 - Summer 2022)

Architecture & Planning (4)
Summer 2021
Shundana Yusaf
Fall 2021
Sarah Hinners
Shundana Yusaf
Spring 2022
Valerie Greer
Sarah Hinners
Summer 2022
Shundana Yusaf

Business (1)
Spring 2022
Barbara Blair

Cultural & Social Transformation (6)
Fall 2021
Ana Antunes
Annie Isabel Fukushima
Spring 2022
Annie Isabel Fukushima
Edmund Fong
Claudia Geist
Kim Hackford–Peer
Thomas Swensen
Summer 2022
Claudia Geist

Dentistry (1)
Fall 2021
Melodie Weller
Spring 2022
Melodie Weller

Education (3)
Fall 2021
Aaron Fischer
Spring 2022
Aaron Fischer
Cynthia Benally
Summer 2022
Lauren Barth–Cohen

Engineering (53)
Summer 2021
Anthony Butterfield
Brittany Coats
Alan Dorval
Cynthia Furse
Bruce Gale
Tao Gao
Jake George
Ganesh Gopalakrishnan
Thomas Henderson
Marina Kogan
Yong Lin Kong
Alan Kuntz
Rob MacLeod
Mark Minor
Swomitra Mohanty
Chris Pantelides
Shad Roundy
Taylor Sparks
Caleb Thomson
Lucas Timmins
Roseanne Warren
David Warren
Jennifer Weidhaas
Heayoung Yoon
Thomas Zangle
Mu Zhang

Spring 2022
Jeffrey Bates
Robert Bowles
Tara Deans
Julia Dunn
Cynthia Furse
Bruce Gale
Tao Gao
Jacob George
Ramesh Goel
David Grainger
Robert Hitchcock
Jacob Hochhalter
Jungkyu Kim
Marina Kogan
Yong Lin Kong
Jessica Kramer

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List of Faculty Mentors (UROP) Continued

Engineering cont
Spring 2022 cont
Rob MacLeod
Andrew Merryweather
Swomitra Mohanty
Pania Newell
Frank Sachse
Taylor Sparks
Jennifer Weidhaas
Heayoung Yoon
Thomas Zangle
Haohan Zhang

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

Health (17)
Summer 2021
Micah Drummond
Jessica King

Fall 2021
Yang Bai
Jesse Christensen
Christopher Depner
Micah Drummond
Peter Fino
Samantha Gustafson
Tanya Halliday
Will Holland
Anandh Babu Pon
Velayutham
J David Symons
Joel Trinity

Spring 2022
Yang Bai
Jesse Christensen
Christopher Depner
Peter Fino
Tanya Halliday
William Holland
Skyler Jennings
Jessica King
Anandh Babu Pon
Velayutham
J david Symons

Humanities (10)
Summer 2021
Tanya Flores

Fall 2021
Lindsey Drager
Maureen Mathison
Carlos Santana

Spring 2022
Leslie Francis
Kendall Gerdes
Jay Jordan
Shawnakim Lowey-Ball
Maureen Mathison
Jerry Root
Carlos Santana

Summer 2022
Maureen Mathison
Margaret Wan

Fine Arts (8)
Summer 2021
Alexandra Harbold
Emelie Mahdavian

Fall 2021
Daniel Clifton
Elizabeth Craft
Alexandra Harbold

Spring 2022
Elizabeth Craft
Brian Snapp
Sonia Albert-Sobrino
Miriam Albert-Sobrino

Summer 2022
Meekyung MacMurdie

Spring 2021 cont

Fall 2021
Anastasia Aniko Ekaterina

Spring 2022
Alessandra Angelucci
Josh Bonkowsky
Wade Fallin
Vincent Koppelmans
Jennie Ose
Alex Shcheglovitov
Rodney Stewart

Fall 2021
Anna Beaudin
Josh Bonkowsky
Owen Chan
Hilary Coon
Melissa Cortez
Donna Cross
Michael Deans
Bruce Edgar
Nels Elde
Julio Facelli

Medicine (58)
Summer 2021
Alessandra Angelucci
Josh Bonkowsky
Wade Fallin
Vincent Koppelmans
Jennie Ose
Alex Shcheglovitov
Rodney Stewart

Fall 2021
Anna Beaudin
Josh Bonkowsky
Owen Chan
Hilary Coon
Melissa Cortez
Donna Cross
Michael Deans
Bruce Edgar
Nels Elde
Julio Facelli
## List of Faculty Mentors (UROP) Continued

### Medicine Continued

**Fall 2021 Continued**
- Thomas Fallin
- Lyen Huang
- Sudha Jayaraman
- Randy Jensen
- Sujee Jayapalina
- Lisa Joss-Moore
- David Krizaj
- Kristen Kwan
- Amy Lenz
- Andres Maricq
- Brian Mickey
- Henrik Odeen
- Jennifer Ose
- Allison Payne
- Marcus Pezzolesi
- Candace Reno
- Viola Rieke
- Jared Rutter
- Alex Shcheglovitov
- Yan-Ting Shiu
- Sarina Sinclair
- Matthew Thiese
- Melissa Watt
- Dustin Williams
- Moriel Zelikowsky
- Jie Zhang

**Spring 2022**
- Andrew Anderson
- Anna Beaudin
- Clement Chow
- Melissa Cortez
- Stavros Drakos
- Bruce Edgar
- Ram Gouripeddi
- Heath Henninger
- Man Hung
- Sudha Jayaraman
- Randy Jensen
- Sujee Jayapalina
- Lindsay Keegan
- David Krizaj
- Tracey Lamb
- Amy Lenz
- Catherine Loc-Carrillo
- Andres Maricq

### Medicine Continued

**Spring 2022 Continued**
- Gennie Parkman
- Marcus Pezzolesi
- Candace Reno
- Aylin Rodan
- Lubdha Shah
- Yan-Ting Shiu
- Matthew Thiese
- Melissa Watt
- Dustin Williams
- Yelena Wu
- Moriel Zelikowsky

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

### Medicine Continued

**CMES Continued**

**Spring 2022**
- Randall Irmis
- Carl Johnson

**Summer 2022**
- Leif Anderson
- Gannet Hallar
- Kathlee Ritterbush

### Nursing (3)

**Summer 2021**
- Lauri Linder
- Lisa Taylor-Swanson

**Fall 2021**
- Lauri Linder
- Lisa Taylor-Swanson

**Spring 2022**
- Katherine Supiano

### Pharmacy (8)

**Summer 2021**
- Marco Bortolato

**Fall 2021**
- Shawn Owen
- Eric Schmidt
- Karen Wilcox

**Spring 2022**
- Marco Bortolato
- Jindřich Kopeček
- Shawn Owen
- Eric Schmidt
- Karen Wilcox

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

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List of Faculty Mentors (UROP) Continued

Science (36)

Summer 2021
Sophie Caron
Jamie Gagnon
Ming Hammond
Nitin Phadnis
Aaron Puri
Jon Rainier
Andrey Rogachev
Ryan Steele
Michael Werner
Dan Wik
Gail Zasowski

Fall 2021
Sophie Caron
Fabienne Chevance
Julie Hollien
Kelly Hughes
Nitin Phadnis
Wayne Potts
Aaron Puri
Jon Rainier
Andrey Roberts
Andrey Rogachev
Caroline Saouma
Anurag Singh
Daniel Wik

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

Spring 2022
Connor Bischak
William Brazelton
Benjamin Bromley
Bethany Buck-Koehntop
Sophie Caron
Fabienne Chevance

Science Continued
Spring 2022
James Gagnon
Ming Hammond
Julie Hollien
Sean Howe
Talia Karasov
J. Michael McIntosh
Nitin Phadnis
Aaron Puri
Jon Rainier
Andrew Roberts
Caroline Saouma
Joshua Steffen
Michael Werner
Luisa Whittaker-Brooks

Social & Behavioral Science (32)

Summer 2021
Katie Baucom
Cynthia Berg
Trafton Drew
Tyler Faith
Leslie Knapp
Shane Macfarlan
Kristina Rand
Jeanine Stefanucci

Fall 2021
Cynthia Berg
Shannon Boomgarden
Andrea Brunelle
Brian Codding
James Curry
Lisa Diamond
Marissa Diener
Trafton Drew
Tyler Faith
Akiko Kamimura
Lori Kowaleski-Jones
Sara LoTemplio
Shane Macfarlan
Thomas Maloney
Kenneth Raby
Brent Steele
Timothy Tim
Jennifer Watt
Guangzhen Wu

Spring 2022
Katherine Baucom
Brian Baucom
Andrea Brunelle
Adrienne Cachelin
Larry Coats
Elisabeth Conradt
Jennifer Follstad Shah
Akiko Kamimura
Lori Kowaleski-Jones
Sara LoTemplio
Shane Macfarlan
Thomas Maloney
Ella Myers
List of Faculty Mentors (UROP) Continued

Social & Behavioral Science Continued
Spring 2022 Cont
Brennan Payne
Mitchell Power
Jeanine Stefanucci
Jennifer Watt
Timothy Webster
Guangzhen Wu
Summer 2022
Adrienne Cachelin
Elisabeth Conradt
Kim Korinek

Social Work (1)
Summer 2021
Sarah Canham
Fall 2021
Sarah Canham

APPENDIX C: UROP Graduate Student Mentors of OUR Scholars (Summer 2021 - Summer 2022)

Engineering (6)
Fall 2021
Eugene Kwan
Caleb Thomson
Brian Cottle
Spring 2022
Julia Dunn
Summer 2022
Eugene Kwan
Nicholas Witham
Andrew Miller

Science (2)
Fall 2021
Maggie Doolin
Summer 2022
Thomas King

Social & Behavioral Science (6)
Summer 2021
Becky Neufeld
Fall 2021
Stella Mosher
Becky Neufeld
Stefania Wilks
Spring 2022
Amy McDonnell
Stella Mosher
Kaeden O’Brien
Jack Silcox
Stefania Wilks
Summer 2022
Amy McDonnell
APPENDIX D: Summer Program for Undergraduate Research (SPUR) Scholars

Architecture & Planning
2021 (1)
Manuela Herrera Naranjo
2022 (1)
Olivia Viestch

Cultural & Social Transformation
2022 (1)
Natalia Garrido

Dentistry
2021 (1)
Summer Furrer
2022
Brenda Acosta

Education
2021 (2)
Angela Pham
April Radford
2022 (2)
Luke Kim
Mary Smith

Engineering
2021 (6)
Jose Carreon-Andrade
Dillon Crytser
Bianca Paulino
Chanel Van Ginkel
Ye Zhou
Jared Zollinger
2022 (6)
Andrew Bergenthal
Brielle Bingener
Rachel D’Agostini
Caden Hamrick
Jake Hirst
Tom Kauffman

Health
2021 (4)
Revi Brown

Heath 2021 Continued
Isaac Cao
Rachel Compton
Ryan Park
2022 (3)
Sarah Haysley
Jade Robinson
Keaton Rosquist

Humanities
2021 (1)
Lex Putnam
2022 (1)
Eliana Massey

Medicine
2021 (21)
Awais Ahmad
Ashley Bates
Dallen Calder
Zach Eatough
Deja Gaston
Kiley Hewitt
Jorge Jimenez
Kyle Kazemini
Chloe Kraft
Shannon Lamb
Derek Lawrence
Grace Liu
Jens Nilson
Salma Perez Rios
Kevin Ramos
Aashna Shah
Andrew Spencer
Sarthak Tiwari
Gary Urry
Angel Valenzuela
Isaac Warner
2022 (12)
Camden Alexander
Sarah Bayardo
ustin Bender
Sam Evans
Jackie Gomez
Naomi Guerrero Reyes
Ellie Han
Jordy Larrea Rodriguez

Medicine 2022 Continued
Marlon Lopez
Monica Owens
Catherine Petersen
Kevin Ramos

Mines & Earth Sciences
2022 (2)
Gabriel Baffour
Jessica Cuello

Nursing
2021 (1)
Jordan Muehlberger

Pharmacy
2022 (1)
Ananya Kumar

Science
2021 (1)
April Radford
2022 (4)
Marco Castaneda
Norzom
Tejashree Prakash
Eleanor Wachtel

Social & Behavioral Science
2021 (7)
Lensky Augustin
Aparna Mangadu
Bennie Martinez
Vianey Quaney
Luis Torres
Avery Wall
Caton Weinberger
2022 (2)
Hope Caviness
Tara Olson

Social Work
2022 (1)
Audrey Pozernick

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APPENDIX E: Faculty Mentors - SPUR (Summer 2021 & Summer 2022)

**Architecture & Planning (2)**
2021 (1)
Daniel Mendoza
2022 (1)
Ivis Garcia Zambrana

**Cultural & Social Transformation (1)**
2022 (1)
Claudia Geist

**Dentistry**
Melodie Weller (2021 & 2022)

**Education**
2021 (2)
Erin Castro
Monika Lohani
2022 (1)
José Gutiérrez

**Engineering**
2021 (4)
Kerry Kelly
Frank Sachse
Benjamin Sanchez Terrones
Roseanne Warren
2022 (6)
Jacob George
Jan Kubanek
Sameer Patil
Xuming Wang
Jason Wiese
Haohan Zhang

**Health**
2021 (4)
Anandh Babu
Rajeshwary Ghosh
Skyler Jennings
J David Symons
2022 (3)
Skyler Jennings
Bradley King
Anandh Babu Pon Velayutham

**Humanities**
Matthew Basso (2021 & 2022)

**Medicine**
2021 (18)
Samir Abdelrahman
Amanda Bakian
Maria Bettini
KC Brennan
Owen Chan
Melissa Cortez
Ed DiBella
Stavros Drakos
Karen Eilbeck
Ramkiran Gouripeddi
Man Hung
Kensaku Kawamoto
Amy Lenz
Russell Richardson
Jill Shea
Martin Tristani-Firouzi
Matt Wachowiak
Robert Welsh
2022 (9)
Owen Chan
Scott Collingwood
Gregory Ducker
Ramkiran Gouripeddi
Joseph Kim
Anne Kirchhoff
Amy Lenz
Erin McGlade
James VanDerslice

**Mines & Earth Sciences**
Daniel Mendoza (2022)

**Nursing**
Djin Tay (2021)

**Pharmacy**
Shreya Goel (2022)

**Science**
2021 (1)
William Anderegg
2022 (4)
William Anderegg
Regina Frey
James Gagnon
Joshua Steffen

**Social & Behavioral Science**
2021 (3)
Lee Raby
Jack Silcox
David Strayer
2022 (2)
Lisa Diamond
Brennan Payne

**Social Work**
2022 (1)
Tiffany Baffour
Note

Data captured in this report reflects programs and activities between 2015 and 2022, with particular emphasis on 2021 to 2022 academic year.

Questions? Contact Annie Isabel Fukushima at our@utah.edu or visit our.utah.edu.
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| **Telephone**    | (801) 581-8070        |
| **Website**      | our.utah.edu          |