Note: This report was produced by Dr. Annie Isabel Fukushima (Associate Dean of Undergraduate Studies and Director of the Office of Undergraduate Research), in collaboration with the OUR staff. Data captured in this report reflects programs and activities between 2015 and 2022, with particular emphasis on 2021 to 2022 academic year. When referring to years, for example, 2021 – 2022, the data captured focuses on the academic year (summer 2021, fall 2021, and spring 2022). Data and information is still ongoing for some of OUR summer 2022 programming. The focus on academic semesters reflects the university academic timeline unless if the report otherwise specifies. Key Performance Indicators which are success metrics are provided in red (with a valuation) with annual average comparison, and if known, whether the activity has increased (+), decreased (−) or is sustained (−−) from a previous year. The KPIs are organized by dimensions that reflect the 5 goals of Undergraduate Studies. OUR began collecting robust data beginning in the fall of 2022 under new leadership, therefore, some of the performance measurements have no prior year comparison to indicate change or if activities have been sustained. Questions? Contact our@utah.edu or visit our.utah.edu.

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[our.utah.edu](https://our.utah.edu)
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About OUR

OUR Brief Story

Office of Undergraduate Research is an Office of Undergraduate Studies – A central office of Undergraduate Studies at the University of Utah. In 1987, Undergraduate Research Opportunities Program was launched at the University of Utah. In 2012, the program became an official 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, Dr. Annie Isabel Fukushima. Dr. Fukushima brings a wealth of experience mentoring undergraduate researchers, knowledge on increasing equity in access, and experience working in collaboration. 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. The OUR community are faculty, staff, and students at the University of Utah. OUR is a leader in fostering R1 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.
OUR Mission

The mission of the University of Utah Office of Undergraduate Research (OUR) 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

Dr. Annie Isabel Fukushima
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

Appreciation to 2021 - 2022
Undergraduate Research Leaders

Daniel J Anderson
Gauri Garg
Emmalyn Irvin
Henry Ponce-Orellana
Emi Wickens
What We Do

Support Faculty & Student Collaborations
- Summer Program Partnerships
- OUR Program Partners
- Faculty Mentors
- Forthcoming: Faculty Affiliates & OUR Mentor Award

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

Research Advising

Research Education & Educational Outreach
- Undergraduate Research Education Series
- Undergraduate Research Symposia (Fall Online, and Spring and Summer in-person)
- Utah Conference on Undergraduate Research (UCUR), and the National Conference on Undergraduate Research (NCUR)
- Research on Capitol Hill (ROCH)

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

our.utah.edu
OUR Leading in research

01 Retention, persistence, and completion
02 Fostering the Utah Experience
03 Supporting the U's holistic student success system
04 Reimagining general education as exceptional education
05 Enhancing teaching, learning, research and innovation environments
Goals for 2022 - 2023

01. Leading in Retention, Persistence, & Completion
- Grow mentoring relationships and partnerships
- Increase funds and scholarships to undergraduate researchers

02. The Utah Experience
- Increase first and second year students conducting research
- Increase diversity in undergraduate research (both mentors and mentees) with attention to minoritized populations, first generation, and low-income.

03. Expand the U’s holistic student success systems
- Sustain overall growth in advising
- Grow in-person outreach that declined during pandemic

04. General Education as Exceptional Education
- Sustain learning objective driven programming and data driven decision-making
- Grow the number of researchers promoting quality of life in research
- Strengthen high-impact model of peer-mentor model with the Undergraduate Research Leaders
- Create a research attribute to centralize visibility of undergraduate research courses

05. Enhancing the teaching, learning, research, and innovation environments
- Grow undergraduate research presentations and designations
- Create OUR Mentor Award
- Launch OUR Faculty Affiliates
Fostering retention through fostering mentoring relationships, Enabling persistence through funding undergraduate research scholarships and opportunities, Furthering an effective model and high impact educational experience, undergraduate research, that leads undergraduate completion.

Office of Undergraduate Research contributes to the goal of retaining students and supporting undergraduate student persistence and completion by:

- Fostering retention through fostering mentoring relationships,
- Enabling persistence through funding undergraduate research scholarships and opportunities.
- Furthering an effective model and high impact educational experience, undergraduate research, that leads undergraduate completion.

### Retention with Mentoring Relationships

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<th>Mentors</th>
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<tr>
<td>399</td>
<td>18</td>
<td>232</td>
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<td>Avg: 339 per year</td>
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<td>Avg: 226 per year</td>
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<td>+30%</td>
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<td>-7%</td>
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**R1 Mentors**
OUR 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.

An OUR Program Partner is:

- Funded internally or externally to conduct research
- Collaborates with undergraduate researchers
- Encourages a team-oriented research process (team may include faculty, staff, and students)

OUR Program Partners receive timely information on resources, central initiatives impact research, opportunities to collaborate, and offer input into policy recommendations. Examples of what emerged 2021-2022

- Support with grant applications
- Hiring and Onboarding Undergraduate researchers
- Collaborating with Undergraduate Researchers at the U
- Field research information
- Remote Undergraduate Research Mentoring guidelines

Summer Program Partnerships

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<th>Partners</th>
<th>Students</th>
<th>Faculty</th>
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<tbody>
<tr>
<td>13</td>
<td>181</td>
<td>154</td>
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</tbody>
</table>

- 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

Note: There were no summer programs summer
Persistence Through Funding

596 Funded

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<th>Type</th>
<th>Amount</th>
<th>Acceptance Rate</th>
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<td>UROP</td>
<td>483</td>
<td>83%</td>
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<tr>
<td>SPUR</td>
<td>45</td>
<td>10%</td>
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<tr>
<td>Scholarships</td>
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<td>--</td>
</tr>
<tr>
<td>Travel &amp; Small Grants</td>
<td>48</td>
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The average number of students funded over the past 7 years: **644 per year**
Total funded since 2015: **4,513**

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Donors & Support

Undergraduate Studies OUR is supported through a variety of state and private funds. Donors of the Lawrence T. Dee and Janet T. Dee Foundation, Francis Family Foundation and the Parent Fund sustain OUR scholarship opportunities. And the OUR Summer Program for Undergraduate Research was supported by the Office of the Vice President for Research ($200,000). And 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.

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Endeavors to Increase funds

The OUR participated in the March 21, 2022 #UGivingDay. Additionally, the Associate Dean Fukushima was the Principal Investigator for a grant application submitted to the Department of Education to make the University of Utah a McNair serving institution. This application was submitted on behalf of Undergraduate Studies and OUR with co-investigators: Jim Agutter, Dave Kieda, Tiffany Baffour, and Daniel Cairo, and received the support of President Taylor Randall, SVP Martell Teasley, SAAVP Chase Hagood, and 18 College Deans. Gratitude to Mercedes Ward (VPR), Cynthia Brown (CSBS), and Lisa Nemelka for supporting the OUR grant application. 6 external grants submitted by faculty at the University of Utah were supported by OUR in a letter of support, with efforts to increase more faculty applying for external grants and including undergraduate researchers in their budget.
For the past 4 years, the OUR has supported graduate school aspirations in undergraduate researchers by co-hosting the "Graduate School Mini Expo" as part of 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 Graduate Studies.

**Graduation Rates**

- **4.28 Years** to graduate (Avg since 2015)
- **83%** Participants who graduated

\( n = 5,650 \) unique participants

**Registration** +5%

**Attendance** -10%

For the past 4 years, the OUR has supported graduate school aspirations in undergraduate researchers by co-hosting the "Graduate School Mini Expo" as part of 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 Graduate Studies.
Building Confidence Through 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
02. The Utah Experience

The Utah Experience engages students in learning by doing in research and reflecting on that experience in order to equitably promote their learning and persistence until graduation. Students experience this within the first 60 credit hours. In order to promote equity in learning and research, it is essential for offices to capture their racial, gender, and student diversity. OUR offers a course geared towards first- and second-year undergraduate students. A central facet of the Utah Experience is equity in access. OUR fosters equity in access through research, and this is in the diversity of our participants. OUR fosters engagement with undergraduate research in the first 60 credits by:

- offering a course designed for early undergraduate students
- funding first and second year students
- supporting diversity in undergraduate researchers

Undergraduate Studies 2950

Spring 2021 & 2022

39 Registered
31% Completed Course Evaluation
100% Satisfied with the course
100% Recommend the course

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. Dr. Cook is Professor in Educational Psychology and the Director of the Learning Sciences Program.

Future plan: Should the University of Utah become a McNair serving institution, this course is envisioned as being required for McNair scholars. The OUR piloted a summer version of the course taught by graduate student in education and OUR staff. The course will continue to be promoted and offered, thanks to the collaboration with Dr. Cook and expansion of the education provided by OUR into the classroom.
Increasing Funding to 1st & 2nd years

1st & 2nd Years Scholars

7% Funded
2015 - 2022
of 2,938

Funding: UROP, SPUR, URL, Travel & Small Grants

Priority areas 2022 - 2023: Increase funding for 1st and 2nd year undergraduate researchers.
## Supporting Diversity & Equity in Undergraduate Research

### Racial equity

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<tr>
<td></td>
<td></td>
<td>All Programs 60.7%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Racial demographics 2015 - 2022
n=18,627 participants

[our.utah.edu](http://our.utah.edu)
Gender equity

Female (n=18,627)

- UROP: 52%
- SPUR: 41%
- Advising: 52%
- URES: 52%
- All Programs: 50%

Please note, that gender-minorities, gender-non-conforming students participate in OUR programs. However, the above data is collected from OBIA.

Transfer Students

- SLCC - Transfer (n=18,627)

- UROP: 25.5% - 31.1%
- SPUR: 17.3% - 48.6%
- Advising: 28.5% - 37.9%
- URES: 22.2% - 37.5%
- Research Symposium: 22.5% - 34.3%
- All Programs: 25.4% - 31.3%
Undergraduate Research Designation (URSD) & Diversity

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>60%</td>
<td>2015 - 2022 of 1,143</td>
</tr>
<tr>
<td>Transfer</td>
<td>25%</td>
<td>2015 - 2022 of 1,143</td>
</tr>
<tr>
<td>BIPOC</td>
<td>45%</td>
<td>2015 - 2022 of 1,143</td>
</tr>
<tr>
<td>URSDs Total</td>
<td>136</td>
<td>2021 - 2022</td>
</tr>
</tbody>
</table>

Future of Equity, Access & Undergraduate Research

Data informed decisions

- Collect data on first-generation students
- Understand diversity of students participating in research courses

Diverse collaborators

- Grow diverse program partners working with undergraduate researchers
- 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
03. Expand the U's holistic student success systems

OUR fosters a holistic student success system in research opportunities. This is accomplished through outreach and research advising. OUR outreach includes tabling and classroom presentations. The number of events for tabling opportunities declined due to fewer in-person opportunities because of global pandemic. However, 2022 bodes well for the future of OUR events with a rebounding of in-person opportunities. The shift to virtual options during pandemic created an opening for adapting outreach activities. The office increased its social media presence and in effect is reaching more students via Twitter, Instagram, Facebook, and email. In partnership with Anne Dibble (Undergraduate Studies Marketing), the OUR was able to revamp its social media assets to promote content online.

Central to student success systems are the role of advisors. The OUR provides research advising to supplement academic advising. The OUR has achieved a scalable intervention of a multi-mentor model: faculty, staff and peer-mentors. This is supported through research advising that supplements academic advising. For the spring 2022, OUR implemented mandatory advising for all funded program participants. This led to a 46% increase in advising compared to overall averages since 2016. OUR peer-mentors, Undergraduate Research Leaders, not only provide peer support but also champion OUR programs to their peers in peach outreach.

Outreach

<table>
<thead>
<tr>
<th>Event Type</th>
<th>2021-2022</th>
<th>2021-2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Events</td>
<td>Average 65 people per year</td>
<td>Average 65 people per year</td>
</tr>
<tr>
<td>+93%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outreached in Person</td>
<td>1,045</td>
<td>1,045</td>
</tr>
<tr>
<td>Events</td>
<td></td>
<td></td>
</tr>
<tr>
<td>outreach</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classroom Presentations</td>
<td>2021-2022</td>
<td>2021-2022</td>
</tr>
<tr>
<td>+611%</td>
<td>1,744</td>
<td>1,744</td>
</tr>
<tr>
<td>Average</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+23%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

our.utah.edu
Advising

429 Advised
2021 - 2022
Avg. 294 per year
+135%

Meaningful Connections

"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." – 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!” – Speech and Hearing Science senior (class of 2022)

"I definitely gained a sense of belonging in the research realm thanks to [OUR research advising].” – Ethnic Studies senior” (class of 2022)
04. General Education as Exceptional Education

OUR reimagines general education as exceptional education through programming that is driven by research learning objectives that fosters successful research projects: research that identifies important questions and methods, fosters research collaborations, and invites reflection. OUR students' research cuts across all 18 colleges and majors/minors contributing to sustainability, global communities, and diversity.

Participants are assessed for the following learning objectives:
- Identify and utilize relevant previous research that supports the research
- Articulate timely and important research questions or creative objectives
- Identify and utilize appropriate methodologies
- Present research effectively

A majority of OUR participants who are funded (SPUR and UROP Scholars) are meeting these objectives. And a majority of undergraduate researchers practice forms of presenting their research at the OUR Undergraduate Research Symposia. A majority of these participants are in process to or have mastered these learning objectives. The OUR supports research that reflects an R1 commitment to civic responsibility, research promoting health & quality of life. Additionally, the office fosters Pac-12 and AAU leadership where 24% of OUR funded undergraduate students having intentions to go on to graduate school.

Learning by doing

"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

Career-defining opportunities

"Exposure to undergraduate research is one of the primary reasons I chose to attend U of U. Not only has my participation in research taught me alot 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

**UROP Scholars agree, Because of the research experience, they can now...**

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Skill Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>98%</td>
<td>Identify appropriate methodologies</td>
</tr>
<tr>
<td>87%</td>
<td>Effectively present research</td>
</tr>
<tr>
<td>97%</td>
<td>Articulate a research question or creative objective</td>
</tr>
<tr>
<td>97%</td>
<td>Meet the fields standard for responsible conduct in research</td>
</tr>
<tr>
<td>96%</td>
<td>Work collaboratively with other researchers</td>
</tr>
<tr>
<td>98%</td>
<td>Reflect on research and make future plans because of this experience</td>
</tr>
</tbody>
</table>

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

<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>90%</td>
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<td>97%</td>
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<td>99%</td>
<td>Meet the fields standard for responsible conduct in research</td>
</tr>
<tr>
<td>99%</td>
<td>Work collaboratively with other researchers</td>
</tr>
<tr>
<td>97%</td>
<td>Reflect on research and make future plans because of this experience</td>
</tr>
</tbody>
</table>
SPUR Excelling in Learning Achievement

SPUR Scholars agree, because of the research experience, they now can...

98% Completed Closing Report
Total of 45 SPUR Mentees
2021

96%
Identify appropriate methodologies

100%
Identify & utilize previous research

100%
Effectively present research

96%
Articulate a research question or creative objective

94%
Meet the fields standard for Responsible conduct in research

100%
Work collaboratively with other researchers

94%
Reflect on research and make future plans because of this experience

100% SPUR mentors agree, because of the research experience, their mentees are able to...

46%
Completed Closing Report
Total of 41 SPUR Mentors
2021

• 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
## 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 theory 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

Top words describing SPUR: graduate school, future, research experience, opportunities
Top words describing what made SPUR valuable: research, meeting, mentor, knowledge
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 evaluators of the symposia.

**Summer 2021**
- 202 Presenters
- 41 Poster evaluators
- 149 Poster evaluations

```
<table>
<thead>
<tr>
<th>Skill</th>
<th>Summer 2021</th>
<th>Fall 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify &amp; Utilize Previous Research</td>
<td>57%</td>
<td>50%</td>
</tr>
<tr>
<td>Articulate a Research Question</td>
<td>78%</td>
<td>60%</td>
</tr>
<tr>
<td>Identify Appropriate Methodologies</td>
<td>63%</td>
<td>62%</td>
</tr>
<tr>
<td>Present Research Effectively</td>
<td>65%</td>
<td>63%</td>
</tr>
</tbody>
</table>
```

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

```
<table>
<thead>
<tr>
<th>Skill</th>
<th>Summer 2021</th>
<th>Fall 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify &amp; Utilize Previous Research</td>
<td>57%</td>
<td>50%</td>
</tr>
<tr>
<td>Articulate a Research Question</td>
<td>78%</td>
<td>60%</td>
</tr>
<tr>
<td>Identify Appropriate Methodologies</td>
<td>63%</td>
<td>62%</td>
</tr>
<tr>
<td>Present Research Effectively</td>
<td>65%</td>
<td>63%</td>
</tr>
</tbody>
</table>
```
Spring 2022
260 Presenters
56 Poster evaluators
334 Poster evaluations

- Identify & Utilize Previous Research: 62% Mastered, 34% In Process of Achieving, 3% Early Stages
- Articulate a Research Question: 65% Mastered, 31% In Process of Achieving, 4% Early Stages
- Identify Appropriate Methodologies: 64% Mastered, 32% In Process of Achieving, 4% Early Stages
- Present Research Effectively: 70% Mastered, 27% In Process of Achieving, 3% Early Stages

2021 - 2022
497 Presenters
120 Poster evaluators
583 Poster evaluations

- Identify & Utilize Previous Research: 59% Mastered, 37% In Process of Achieving, 4% Early Stages
- Articulate a Research Question: 66% Mastered, 32% In Process of Achieving, 2% Early Stages
- Identify Appropriate Methodologies: 64% Mastered, 34% In Process of Achieving, 2% Early Stages
- Present Research Effectively: 67% Mastered, 30% In Process of Achieving, 3% Early Stages
# Research, Civic Responsibility & Quality of Life

## 2015 - 2022*

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

## Graduate School Aspirations at the University of Utah

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Program</td>
<td>21.85%</td>
<td>14,520</td>
</tr>
<tr>
<td>Funded Scholars</td>
<td>25.66%</td>
<td>4,831</td>
</tr>
<tr>
<td>Undergraduate Research Designation</td>
<td>32.43%</td>
<td>1,143</td>
</tr>
<tr>
<td>Advisees</td>
<td>16.15%</td>
<td>2,309</td>
</tr>
<tr>
<td>Education Series Attendees</td>
<td>21.57%</td>
<td>6,862</td>
</tr>
</tbody>
</table>

our.utah.edu
Priorities for Exceptional Education 2022 - 2023

Data driven decisions the OUR would like to understand in the future:
- % that go on to graduate school in general
- # of program participants that go on to graduate school in the first 6 months
- # of program participants that go on to graduate school within a year after graduating
- # of program participants who complete doctoral degrees

Increase high-impact model: peer-mentoring
- Diversity & Equity in Research
- Community Engaged Research
- IRB & Clinical Research and the creation of an IRB Lab
- Strategic Outreach to STEM researchers
- Revision of the Media Specialist position to increase partnership with UMC and Undergraduate Studies marketing
- Bi-weekly Drop-in "Funding Fridays" to receive peer and staff support on applications for programs - more coming soon!
- Collaborating with Penji to increase outreach
- Creation of a research and publishing leaders for a variety of fields

Deepen awareness about the exceptional education that exists in research courses offered across the 18 colleges
- Creation of a research attribute
05. Enhancing the teaching, learning, research, and innovation environments

The OUR contributes to enhancing research, teaching, and learning environments through the provision of weekly education series (Undergraduate Research Education Series). Also, the OUR fosters research innovation through publication and student presentations. And in pursuit of excellence, we recognize outstanding undergraduate researchers during an annual awards ceremony. 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 the Undergraduate Research Symposium, and publication of an abstract or excerpt of their work in the Undergraduate Research Journal.

Education & Presentation Opportunities

<table>
<thead>
<tr>
<th>Education Series</th>
<th>Undergraduate Research Symposia</th>
<th>Research on Capitol Hill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Attendees</td>
<td>presenters</td>
<td>presenters</td>
</tr>
<tr>
<td>1,787</td>
<td>497</td>
<td>24</td>
</tr>
<tr>
<td>Avg 1,350 per year</td>
<td>Avg 476 per year</td>
<td>Avg 25 per year</td>
</tr>
<tr>
<td>+53%</td>
<td>-20%</td>
<td>--</td>
</tr>
</tbody>
</table>

50 UCUR / NCUR presenters funded

-30%
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.

The education series has witnessed an 48% decline in live attendees since 2019. And a 129% growth in video accessing of content. Increasingly, students are viewing content after an event is posted watching on-demand content provided by the Office in partnership with Undergraduate Studies Information Technology. To foster greater on-demand participation online, during the 2021 - 2022, OUR has been working with UMC to renovate the website to create a more user friendly interface with easy access for visitors to engage with OUR educational content.

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
Undergraduate Research Symposium

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, the OUR organized the first return to in-person events, and supported 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
92%+

Fall 2021
35 presenters
Virtual
40z%

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
Research on Capitol Hill

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. 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. Legislatures are invited by VP 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 VPR Rothwell, Madeleine Sorenson and Gauri Garg presented to faculty and campus leadership about their experiences presenting their research at the Hill.
The 16th annual Utah Conference on Undergraduate Research was hosted at Utah Tech University (Formerly known as Dixie State University). In 2007, the first UCUR was hosted at University of Utah. The OUR team is preparing to co-chair the 2023 UCUR, with co-chairs: Dr. Annie Isabel Fukushima, Cindy Greaves, and Megan Shannahlan. In partnership with Undergraduate Studies and College partners across the campus and the VPR Office, UCUR 2023 promises to be a successful event with students participant 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 labor and research activities that culminated in for many, multiple semesters of research. Undergraduate research was 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 the undergraduate research projects in this journal provides a window into the high impact practice of mentoring the future of research. The future of research found in the 2022 Undergraduate Research Journal issue highlights hope, curiosity, and endeavors to resolve to find solutions to contemporary and historical pressing questions.

https://our.utah.edu/urj2022/

Undergraduate Research Designation

The Undergraduate Research Designation was created fall 2006. The Undergraduate Research Scholar Designation (URSD) recognizes a student's commitment to their development as a researcher during their undergraduate career. The URSD 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.

136
URSDs
Avg 144 per year
--
Goal 2022–2023: Increase URSDs received
The 2022 OUR Awards Ceremony was hosted for the first time in 2022 as a hybrid event. Video content recognizing donors was created and the event was live-streamed for the first time ever. Coverage of the ceremony and week-long activities of undergraduate research events including the Undergraduate Research Symposium appeared in the @theU.

**37 Students recognized**

**17 Colleges & OUR Awardees**
OUTSTANDING UNDERGRADUATE RESEARCHER Awardees
2022

Alphabetical Order 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
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).

2022 Monson Prize Awardee
Kassie John (Prof. 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 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.
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: Professor Ana Antunes, Transform)
- **Kendal Chatard** (Mentor: Professor Tim Webster, Social & Behavioral Science)
- **Shaistah Din** (Mentor: Professor Marissa Diener, Social & Behavioral Science)
- **Gauri Garg** (Mentor: Professor Adam DeHavenon, Medicine)
- **Wyatt Hudgens** (Mentors: Professors Jim Curry and Juliet Carlisle, Social & Behavioral Science)
- **Sarah Orozco** (Mentor: Professor Veronica Valdez, Education)
- **Sohyun Park** (Mentor: Professor Annie Isabel Fukushima, Transform)
- **Madeleine Sorenson** (Mentor: Professor 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: Professor Peter Fino, Health)
- **Heather Graham** (Mentor: Professor Kim Hackford-Peer, Transform)
- **Anika Isom** (Mentor: Professor Ben Christensen, Medicine)
- **Madeline Jensen** (Mentor: Ram Goel, Science)
- **Kai Pruyn** (Mentor: Professor Tommaso Lenzi, Engineering)
- **Madeleine Sorenson** (Mentor: Professor Rebecca Utz, Social & Behavioral Science)
- **Zakary Wankier** (Mentor: Professor 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: Professor Nitin Phadnis, Science)
- **Abby Citterman** (Mentor: Professor Jake George, Engineering)
- **Dillon Fehlau** (Mentor: Professor Tao Gao, Engineering)
- **Lauren Hulse** (Mentor: Professor Nitin Phadnis, Science)

Beginning in the fall 2022, OUR will launch:

- **Faculty Affiliates of OUR.** Faculty affiliates will highlight existing UROP and SPUR faculty mentors.
- **OUR Mentor Award.** The OUR is also 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.
## 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

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

#### 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

#### Engineering (53)
- **Fall 2021**
  - Tao Gao
  - Jacob George
  - Ganesh Gopalakrishnan
  - David Grainger
  - Thomas Henderson
  - Tucker Hermans
  - Jacob Hochhalter
  - Jay Kim
  - Yong Lin Kong
  - Alan Kuntz
  - Eugene Kwan
  - 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
  - Melodie Weller

#### Engineering cont
- **Fall 2021**
  - Tao Gao
  - Jacob George
  - Ganesh Gopalakrishnan
  - David Grainger
  - Thomas Henderson
  - Tucker Hermans
  - Jacob Hochhalter
  - Jay Kim
  - Yong Lin Kong
  - Alan Kuntz
  - Eugene Kwan
  - 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

#### Business (1)
- **Spring 2022**
  - Barbara Blair

#### Dentistry (1)
- **Fall 2021**
  - Melodie Weller
- **Spring 2022**
  - Melodie Weller
### 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

#### 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

#### 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

#### 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  
Lyn Huang  
Sudha Jayaraman  
Randy Jensen  
Sujee Jeyapalina  
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 Jeyapalina  
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  

**CMES Continued**  
**Spring 2022**  
Randall Irmis  
Cari Johnson  

**Summer 2022**  
Leif Anderson  
Gannet Hallar  
Kathleen 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
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
Andrew Roberts
Andrey Rogachev
Caroline Saouma
Anurag Singh
Daniel Wik

Summer 2022
Ben Bromley
Shanti Deemyad
Bryn Dentinger
Jordan Gerton
Wesley Hamilton
Thomas King
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
Lisa Whittaker-Brooks

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

Social & Behavioral Science (32)

Summer 2021
Katherine 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

Spring 2022
Katherine Baucom
Brian Baucom
Andrea Brunelle
Adrienne Cachelin
Larry Coats
Elisabeth Conract
Jennifer Follstad Shah
Akiko Kamimura
Lori Kowaleski-Jones
Sara LoTemplio
Shane Macfarlan
Thomas Maloney

Katherine Baucom
Brian Baucom
Andrea Brunelle
Adrienne Cachelin
Larry Coats
Elisabeth Conract
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

**UROP Graduate Student Mentors**

**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
Kaedan O’Brien
Jack Silcox
Stefania Wilks
**Summer 2022**
Amy McDonnell
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)
Isabel Fuller (Spring 2022)

Business (1)
Huong Mai (Spring 2022)

Cultural & Social Transformation (11)
Cloe Butler (Fall 2021)
Liuchen Chen (Fall 2021)
Sandra Del Río Madrigal (Fall 2021, Spring 2022)
Thaiss Del Río 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 - Hala’euia (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)
Nicolaï 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 2022)

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)
Andie Sieja (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)

**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)
Brianna 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)
Kayla Rebentisch (Spring 2022 and Summer 2022)
Justinas Sapiega (Fall 2021)
Momina Sial (Summer 2021)
Heba Sultan (Fall 2021 and Spring 2022)
Clara William (Summer 2022)
Elena Yee (Fall 2021)

**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)
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 Habbeshow (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 Spring 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 Muhradia (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 (Spring 2022)
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)
Anyawelega (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)
- Brittney 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)
- Kiyoh 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**
Isabelle Fernandez (Summer 2021 and Spring 2022)
Madison Gahan (Fall 2021 and Spring 2022)
Lauren Gleave (Fall 2021 and Spring 2022)
Emma Glende (Summer 2022)
Aaron Gold (Fall 2021 and Spring 2022)
Jacqueline Gomez (Fall 2021 and Spring 2022)
Blessing Heelis (Fall 2021)
Dylan Hutchings (Summer 2021 and Fall 2021)
Devon Jecmen (Fall 2021)
Seokjin Jeong (Spring 2022)
Saey Kamtekar (Spring 2022)
Leehye Kang (Fall 2021)
Kayleigh Kirkpatrick (Fall 2021 and Spring 2022)
Augusto Lopez (Fall 2021 and Spring 2022)
Marin Macfarlane (Summer 2022)
Rose McLaughlin (Fall 2021)
Audrey Meyer (Fall 2021)
Melika Moeinvaziri (Fall 2021 and Spring 2022)
Maren Moffatt (Summer 2021 and Fall 2021)
Nadege Nayituriki (Fall 2021)
Natasha Pagel-Aprill (Fall 2021 and Spring 2022)
Samantha Paredes (Fall 2021 and Spring 2022)
Torri Peck (Summer 2021 and Fall 2021)
Angela Pham (Spring 2022)
Shaylie Platten (Fall 2021 and Spring 2022)
Alicia Quick (Spring 2022)
Alyssa Richards (Spring 2022)
Mary Roalstad (Spring 2022)
Annie Sanchez (Fall 2021 and Spring 2022)
Allyson Schmidt (Summer 2021)

**Social Work (1)**
Morrison Donovan (Summer 2021, Fall 2021)
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 Kubicak
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 Elbeck
Ramkiran Gouripeddi
Man Hung
Kensaku Kawamoto
Amy Lenz
Russell Richardson
Jill Shea
Martin Tristani-Firooz
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
## Summer Program for Undergraduate Research (SPUR) Scholars

<table>
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<tr>
<th>Architecture &amp; Planning</th>
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<tr>
<td>2021 (1)</td>
<td>Isaac Cao</td>
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<td></td>
<td>Rachel Compton</td>
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<td>Sarah Haysley</td>
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<td>Jordy Larrea Rodriguez</td>
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<tr>
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<td>Monica Owens</td>
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<td>Catherine Petersen</td>
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<td>Kevin Ramos</td>
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| 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                 |
| Tejashee 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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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.

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