Meeting Synopsis:

1. Call to order
2. Review of the minutes from January 11th, 2017
3. Announcements
5. Jennifer Harris - Undergraduate Research
6. Open Access Policy - Class B resolution and "ambassadors group"
7. Good of the order
8. Adjourn

1) Call to order

The meeting was called to order at 9:00 a.m.

2) Review of the minutes from January 11th, 2017

The minutes from January 11th, 2017 were approved as written.

3) Announcements

In a recent Research Advisory Board (RAB) meeting, it was announced that the Trump Administration’s freeze on U.S. Environmental Protection Agency (EPA) grants and contracts is expected to have impacts on the UW, mostly relating to the College of the Environment and School of Public Health.

Rosenfeld thanked members for their work and feedback on the draft FCR Class C resolution on Postdocs. He noted Edwards would be present in the next Senate Executive Committee (SEC) meeting to aid in presenting the resolution to that body.

4) Karen Moe - Human Subjects - Update on Human Subjects Recent Regulatory Changes (Exhibit 1)

Karen Moe (Director & Assistant Vice Provost for Research, Human Subjects Division) and Adrienne Meyer (Assistant Director for Researcher Support, Human Subjects Division) were present to give information on human subjects regulatory changes. They used a PowerPoint as part of their presentation (Exhibit 1).

Moe explained many federal regulatory changes are coming for human subjects research as well as other areas. The changes are designed to improve research quality, effectiveness, and efficiency, and
are being driven jointly by Congress, federal granting agencies, non-federal sponsors, and research advocacy organizations.

In relation to human subject research, the federal human subjects regulations have been changed for the first time in 45 years. Changes include:

- Eliminating annual re-review of low risk research
- Expanding exempt categories
- Consent forms: start with overview; new elements; public registry for clinical trials
- Single IRB for cooperative research

In relation to other areas, a new National Institute of Health (NIH) requirement makes Good Clinical Practice (GCP) training mandatory for PIs and clinical trial staff of all NIH clinical trials, including ongoing trials. Trainings must be completed before award of new grants or non-competing continuation funds. The UW will design ways to meet this requirement on its own, which HSD is spearheading. HSD is also expecting that NIH will let PIs know about the change via a separate communication, or upon contract renewal.

Additionally, since 2007 most FDA-regulated clinical trials were required to register and report results at ClinicalTrials.gov. A new regulation expands this requirement to apply to more clinical trials, require reporting of additional information, and adds new penalties for non-compliance. HSD has agreed to take on responsibility for assisting researchers with the change. In approximately two weeks, information will be added to their website to provide several new resources to faculty relating to the change.

Due to a recent Executive Order by the Trump Administration, the changes will not be final until after a 60-day review period has culminated. Being that the focus of the revisions is to reduce administrative burden and the cost to implement is lower than originally thought, many believe the changes will survive the review period. Some revisions have been removed from the legislation (Exhibit 1, Page 4).

Some of the changes will affect workloads of the UW Human Subjects Division (HSD), and most will reduce administrative workloads of Principal Investigators (PIs). HSD is preparing for the changes by making ready to disseminate information and resources to researchers relating to the regulatory changes transition. All the changes (other than the single IRB for cooperative research) will be implemented on January 19th, 2018. The single IRB requirement will be implemented on January 20th, 2020.

The council thanked Moe and Meyer for presenting information on the regulatory changes.

5) Jennifer Harris - Undergraduate Research (Exhibit 2) (Exhibit 3)

Harris presented to the council on the workings of the Undergraduate Research Program (URP) as part of a carryover item from last meeting wherein there was a discussion of undergraduate research. She explained she is current director of the Undergraduate Research Program. A PowerPoint and fact sheet
handout were used as part of the presentation (Exhibit 1) (Exhibit 2). She noted in 2014-15, 7,400 undergraduate students participated in at least one quarter of research guided by UW faculty.

Harris provided a timeline of the growth of undergraduate research nationwide. Institution-wide undergraduate research was established as early as the late 1960s. At the UW – in 1996 the Mary Gates Endowment for Students was established, with funds awarded to offset educational expenses for students involved in research. In 1998, the UW held its first Undergraduate Research Symposium (showcasing 70 presenters). In 1999, the first director of the UW Undergraduate Research Program was appointed. URP is housed under Undergraduate Academic Affairs, and facilitates research experiences for undergraduates with UW faculty members across the disciplines, as well as maintains listings of current UW research opportunities and national programs.

Harris went into detail relating to some of the benefits for students involved in undergraduate research, including (Exhibit 2, Slide 3):

- Enhanced and applied learning
- Confidence building
- Preparation for graduate study and careers
- Even greater impact for first-generation, low-income, and underrepresented students

A member noted having data on students who are involved in undergraduate research and go on to attend graduate school might provide a strong argument for continued support of undergraduate research.

Harris explained students can get involved in research at the UW in variety of ways, including as research assistants, by developing a research idea with guidance from a faculty member, through a research course or capstone experience, or by joining a research or design team. She noted research advising is a primary function of the URP, and provided more information on some of the resources the program offers to students relating to raising awareness about research, connecting students to research, and providing support and funding (Exhibit 2, Slide 7).

The URP also manages an online research opportunities database, which hosts an average of 250 research opportunity postings at any given time and allows students to view and apply directly to research opportunities around the university. Harris exhibited screenshots of the website and demonstrated how it works.

There was some discussion of the Annual Undergraduate Research Symposium, which is an annual event (held in May) that provides a chance for undergraduates to present what they have learned through their research experiences to a larger audience. The event includes poster and presentation sessions by students from all academic disciplines across all three UW campuses, plus invited guests. A member noted the event is also a form of major public outreach given attendance of students’ family members, other institutions, primary schools, and middle schools. The event had 1049 undergraduate presenters in 2016.
Rosenfeld stressed the importance of disseminating information to faculty on the resources the URP provides, including the ability to connect students to research. He noted Harris might speak at a future faculty senate meeting to this end.

6) **Open Access Policy - Class B resolution and "ambassadors group"** (Exhibit 4) (Exhibit 5)

Rosenfeld explained the draft university-wide Open Access Policy is ready to be proliferated widely to the faculty. The policy will be officially considered as Class B legislation after endorsement by the FCR and Faculty Council on University Libraries (FCUL) is given. Members of the Rules Coordination Office working with the Faculty Senate & Governance Office discovered the policy could potentially be inserted into Chapter 50 of the Faculty Code and Governance (Policies Relating to Terms and Conditions of Employment). A flowchart of the Class B legislative process was shown and described. It was noted Executive Order No. 36 would also need to be amended to enact the policy, which is likely to be carried out upon approval of the legislation. The SEC and faculty senate will first hold discussion of the policy in a single round of meetings before it is forwarded as an action item to be deliberated and voted on by those bodies.

Rosenfeld noted a group of open access “ambassadors” is being brought together to go to units who have questions about the policy to answer questions/provide additional information to faculty. He asked FCR members to consider joining the effort.

There was some discussion of lawsuits over open access filed by publishers. After some discussion, Arias noted she would generally check in with the Council on Governmental Relations (COGR) relating to open access.

7) **Good of the order**

Nothing was stated for the good of the order.

8) **Adjourn**

Rosenfeld adjourned the meeting at 9:00 a.m.

Minutes by Joey Burgess, jmbg@uw.edu, council support analyst

Present: **Faculty**: Eliot Brenowitz, Gina-Anne Levow, Benjamin Marwick, Michael Rosenfeld (chair), Todd Herrenkohl  
**Ex-officio reps**: Diana Louden, Michelle Brault, Jennifer Harris, George Sandison  
**Guests**: Karen Moe, Adrienne Meyer, Sue Camber, Dan Herb, Jessica Salvador

Absent: **Faculty**: Donald Chi, Chuck Frevert, Mark Haselkorn, Tueng Shen, John Slattery, Paul Fishman, Nicole Gibran  
**Ex-officio reps**: N’Vida Yotcho, JoAnn Taricani  
**President’s designee**: Mary Lidstrom
Exhibits

Exhibit 1 – 2-8-17 FCR Human Subjects Issues.pdf
Exhibit 2 – URP Presentation 2.08.17v5.pdf
Exhibit 3 – URP Fact Sheet 2015-16.pdf
Human Subjects Research: Recent Regulatory Changes
Karen Moe, Human Subjects Division
Faculty Council on Research
February 8, 2017

Context

Many recent regulatory changes in all areas (not just human subjects), designed to improve:

- Research quality
- Research effectiveness
- Research efficiency

Driven by:

- Congress
- Federal granting agencies
- Non-federal sponsors
- Research advocacy orgs (e.g., Natl Acad Science)
Human Subjects Research

- Revised Common Rule (main regulations)
- GCP Good Clinical Practice training
- Clinical trials registration and results reporting

The Common Rule

The long-awaited revisions to the federal human subjects regulations were published 1.19.17

- When will they be implemented?
- What will change?
- What is HSD doing to prepare?
Implementation Dates

<table>
<thead>
<tr>
<th>Implementation</th>
<th>Dates</th>
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<tbody>
<tr>
<td>Final Rule published</td>
<td>Jan 19, 2017</td>
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<tr>
<td><strong>Executive Order</strong>: 60-day review period for all Final Rules that are not yet implemented</td>
<td>Jan 20, 2017</td>
</tr>
<tr>
<td>Implement everything except single IRB requirement</td>
<td>Jan 19, 2018</td>
</tr>
<tr>
<td>Implement single IRB requirement</td>
<td>Jan 20, 2020</td>
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How likely is it to survive?

- Focus of the revisions is reducing burden
- Sixteen federal agencies have signed it
- It was a lengthy, responsive, public process
- Controversial changes eliminated
- Financial cost is much less than anticipated
## Controversial revisions removed

- Require consent for using de-identified biospecimens
- Extend HIPAA-like privacy and security requirements to research data
- Add “excluded” as a new regulatory category of human subjects research

## Primary Changes

<table>
<thead>
<tr>
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<th>PI work</th>
<th>HSD work</th>
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<tbody>
<tr>
<td>Eliminate annual re-review of low risk research</td>
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<tr>
<td>Single IRB for cooperative research</td>
<td>Lead PI</td>
<td>Others</td>
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What is HSD doing?

• Studying the rules & commentary
• Communication
• Single IRB preparation (also a new NIH policy)
• Some internal planning (resources, priorities)

New NIH requirement: GCP Training

Jan 1, 2017
GCP training required for PI and clinical trial staff of all NIH clinical trials, including ongoing trials.

Training must be completed before award of new grants or non-competing continuation funds.

*Good Clinical Practice
What HSD is doing

Providing options that:
• Are concise
• Tailored to type of research
• Researchers may have already completed

Examples:
• NIH Institute-specific e-training
• Social-behavioral GCP training
• Industry offerings (e.g., pharma)

Expanded Requirement

Clinical trials registration & reporting

2007
Most FDA-regulated clinical trials must register & report results at ClinicalTrials.gov

January 18, 2017
New regulation expands the requirement
• Applies to more clinical trials
• Additional information required
• New penalties for non-compliance
## What HSD is doing

Providing some support
- ID all relevant clinical trials & inform PI
- Significantly enhanced resources for PI *(2.15.17)*
  - Website
  - Help documents, data entry templates
- Track compliance with registration
- Answer questions, solve problems

*Registration & reporting requires detailed understanding of the study and significant time*
UNDERGRADUATE RESEARCH AT UW AND THE UNDERGRADUATE RESEARCH PROGRAM

Jennifer Harris, Director, Undergraduate Research Program

Faculty Council on Research
February 8, 2017
UNDERGRADUATE RESEARCH

Rise of Undergraduate Research

• Late 1960s – First institution-wide undergraduate research programs established
• 1980s -1990s – Increased efforts to establish undergraduate research programs

UW Undergraduate Research Program

• 1996 – Mary Gates Endowment for Students established
• 1998 – First Undergraduate Research Symposium (70 presenters)
• 1999 – First director of Undergraduate Research Program
WHY UNDERGRADUATE RESEARCH?

Benefits of Undergraduate Research

• Enhanced and applied learning: authentic research motivates student learning and application of knowledge
• Confidence-building: students gain the ability to perform research and contribute to a field
• Next steps: Preparation for graduate study and careers
• Impact even greater for first-generation, low-income, and underrepresented students
• Recognized as one of five “High Impact Practices” (Kuh, AAC&U, 2010)
WAYS TO GET INVOLVED IN UNDERGRADUATE RESEARCH

> Research assistant with faculty mentor/research group
> Student research idea developed with guidance from faculty member
> Research course or capstone experience
> Research and design teams

By the numbers:
# 7,400 students participated in at least 1-qtr of research (2014-15)
# Over 1,000 students present their work in the annual UW Undergraduate Research Symposium
# Nearly 200 students received Mary Gates Research Scholarships (2015-16)
MISSION

The Undergraduate Research Program (URP) facilitates research experiences for students in all academic disciplines through advising, initiatives, and other resources. URP works to expand research opportunities for undergraduates, supports faculty and academic departments to integrate undergraduate research into their curricula and programs, and provides public events for students to present their scholarly work.
HOW DO WE SERVE?

**Students**
- Awareness
- Connections to research
- Funding and support

**Research Mentors**
- Awareness
- Connections to students
- Support and development

**Departments & Partner Organizations**
- Collaborate on initiatives
- Coordinate programs
- Support department-based efforts
SERVING STUDENTS

Raising Awareness
- Husky 101 video
- Freshman Interest Group (FIG) Presentations
- Freshman & Transfer Orientation Sessions
- Undergraduate Research Leaders (URL) presentations (TRiO, SSS, EOP, classes, etc.)
- Dawg/Welcome Daze Tabling
- Adviser Listserv
- Transfer Newsletter
- CC outreach

Connections to Research
- Weekly Info Sessions & Advising
- Opportunities Database
- Mentor contacts
- Resume/Cover Letter Support
- Communication Work plan
- Research Exposed!
- Approaches to Inquiry Course
- Community College Transfer Students Research Course
- URP Listserv
- Workshops:
  - Applying for Summer Research
  - Program Info Sessions
- Website Resources:
  - Advising Guide for Students
  - Getting started in Research
  - Summer research opportunities

Funding & Support
- Undergraduate Research Symposium
- Symposium Workshops
- Summer Poster Session
- Academic Credit
- 1 on 1 advising
- Summer STEM Seminar
- Funding & Summer Programs
  - Summer Institute in the Arts & Humanities
  - Scan Design Innovations in Pain Research Summer Program
  - CoMotion Mary Gates Innovation Scholars
  - Co-host: HHMI, CCHF, CEI
  - Levinson Emerging Scholars
  - Washington Research Foundation Fellowships
  - Conference Travel Awards
  - Mary Gates Research Scholarships
SERVING STUDENTS

Husky 101 video
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Dawg/Welcome Daze Tabling
Adviser Listserv
Transfer Newsletter
CC outreach

Outreach by Undergraduate Research Leaders (URLs)

By the numbers:
# 6,500 Freshmen & 1,300 Transfer students completed Husky 101 video orientation (pre-Autumn 2016)
# 1,500 students were reached through URL outreach (Autumn 2016)
SERVING STUDENTS

Weekly Info Sessions
Weekly Info Sessions & Advising
Opportunities Database
Mentor contacts
Resume/Cover Letter
Support
Communication Work plan
Research Exposed!
Approaches to Inquiry
Course
Community College Transfer
Students Research Course
URP Listserv
Workshops:
• Applying for Summer Research
• Program Info Sessions
Website Resources:
• Advising Guide for Students
• Getting started in Research
• Summer research opportunities
www.uw.edu/undergradresearch
Current Undergraduate Research Opportunities

for Undergraduate Research Program at UW

Exhibit 2

Title

Help Create a New Foreign Aid Dataset and Learn About International Development!
Optical transport in atmospheres, oceans, or biological tissue
Paid Undergraduate Research Position in Skin Cancer Research
Research fellowships in PANAMA
C++ Developer for Statistics
Linking eye movements to visual perception
Potential for research in Bioethics
Undergraduate research opportunity in Xu Lab in Medicinal Chemistry - cholesterol biosynthesis and neurodevelopment
Epilepsy genetics research
Digital Humanities Research and Publication Project Internships : The Emma B. Andrews Diary Project/Newbook Digital Texts

Historical Research & Writing : 'The Golden Age of Egyptian Archaeology'
Stories of Us: Community Health Research Project
High resolution imaging of the human retina – UW Medicine Ophthalmology
Biomarkers in Autism Spectrum Disorder
Undergraduate Research Assistant - Intern - Neurobiology, Mitochondrial Disease
Clinical Research Opportunity in Pediatric Psychology
Mammalian Tissue Regeneration
Defining the Correlates of Protection from Respiratory Viral Pneumonia in Infants
Qualitative Analysis of participant responses
Biomarkers in Autism Spectrum Disorder

Contact Information

Contact name: Megha Santhosh
Department/Other Affiliation: Child Health, Behavior, and Development
Contact email: megha.santhosh@seattlechildrens.org

Project Information

Project Title: Biomarkers in Autism Spectrum Disorder
Project Description: The Autism Biomarkers Consortium for Clinical Trials (ABC-CT) is a multicenter research study based at Yale that spans Duke University, Boston Children’s Hospital, the University of Washington/Seattle Children's Research Institute and the University of California, Los Angeles. The study aims to develop reliable measures of social function and communication in people with autism using EEG, Eye Tracking, Video Tracking etc. Seattle Children’s Research Institute is a part of the Data Acquisition and Analysis Core (DAAC) of this project and we work on Quality Control and Data Analyses on the collected EEG data. We are looking for individuals to help with our quality control pipeline, data entry, and help with data analyses on this project.

Minimum Requirements: We are looking for individuals who are responsible, self-directed and comfortable with computers and learning new computer programs. Some experience with individuals with autism or children with developmental delay is also preferred. Min hours/week: 3

Research Area

Research area 1: Psychiatry & Behavioral Sciences
Research area 2: Psychology
Research area 3: Psychology - Clinical
Research area 4:
NAVIGATING RESEARCH OPPORTUNITIES

How to use the URP Database:

1. **Do!** Identify what kind of research you would like to do.
   The URP staff can help you identify your interests and match them to a research opportunity.

2. **Do!** Attend a URP Info Session or talk to a URP adviser **before** applying for positions.
   Register for an upcoming information session, follow-up with us during our drop-in advising hours, or send an email to urp@uw.edu to schedule an appointment...

3. **Do!** Look broadly and realize that although the URP database is an extensive list, it is not comprehensive.
   The list is only a partial list of potential undergraduate research opportunities. It is only made up of opportunities submitted to us by research mentors...

4. **Don’t!** Send a form email to every faculty member in your major / area of interest.
   You want to find the opportunity that is right for you, not just any opportunity. Take some time to select which opportunities to apply for. In your initial contact email...

5. **Don’t!** Get frustrated.
   Many students are not successful in their first attempts to find a research position. Talk to URP advisors...

SEARCH THE DATABASE NOW
SERVING STUDENTS

Funding & Support
- Undergraduate Research Symposium
- Symposium Workshops
- Summer Poster Session
- Academic Credit
- 1 on 1 advising
- Summer STEM Seminar
- Funding & Summer Programs
  - Summer Institute in the Arts & Humanities
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  - Co-host: HHMI, CCHF, CEI
  - Levinson Emerging Scholars
  - Washington Research Foundation Fellowships
  - Conference Travel Awards
  - Mary Gates Research Scholarships

Funding
Undergraduate Research Symposium
URP STAFF

Janice DeCosmo
Associate Vice Provost for Undergraduate Research

Jennifer Harris
Director

Jessica Salvador
Assistant Director

Dan Herb
Adviser & Program Coordinator

Ian Kretzler
Graduate Staff Assistant

Grecia Leal Pardo
Undergraduate Staff Assistant

40 Undergraduate Research Leaders
> 200 Volunteers
HIGHLIGHTS

UNDERGRADUATE RESEARCH

LOOKING FOR ANSWERS

For quarter of the class of 2014 worked closely with a professor on research while in college, according to the National Survey of Student Engagement. The Association of American Colleges & Universities thinks that fraction is too low and is "really pushing" member schools to do better, says

THE STANDOUTS

Amherst College (MA)
Butler University (IN)
California Institute of Technology
Carleton College (MN)
Carnegie Mellon University (PA)
College of New Jersey*
College of Wooster (OH)
Creighton University (NE)
Dartmouth College (NH)
Davidson College (NC)
Duke University (NC)
Elon University (NC)
Furman University (SC)
Harvard University (MA)
Harvey Mudd College (CA)
Hope College (MI)
Johns Hopkins University (MD)
Massachusetts Institute of Technology
Ohio State University–Columbus*
Pennsylvania State University (PA)
Princeton University (NJ)
Rice University (TX)
Stanford University (CA)
Trinity University (TX)
Truman State University (MO)*
University of California–Berkeley*
University of California–Los Angeles*
University of Michigan–Ann Arbor*
University of North Carolina–Chapel Hill*

Debra Humphreys, vice president for policy and public engagement. Collaborating on original research gets students working closely with faculty members, posing questions, making empirical observations, and using technology in ways they can’t in class.

"The stuff I’m doing is making an impact," says Anthony Recidoro, a 2015 University of Washington graduate in biology from Murrieta, California. His research on how zebrafish regenerate lost bone, skin, and tails has implications for medicine, he says, and "probably ranks No. 1" among all his college experiences. Before landing his research slots sophomore year in the Musculoskeletal Systems Biology Lab, Recidoro says he felt "lost in a big school system." With research, his world "got really small, really fast." Recidoro spent about 10 hours a week involved in the work, plus two summers, and has been published in a scientific journal. He also got to attend an international science conference in Baltimore, where he hobnobbed with Harvard University and University of Tokyo faculty.

New students at UW get a briefing on the research possibilities as early as their orientation, and some 94 percent of undergrads undertake a project. Each spring, over 1,000 students present their work at a campuswide symposium, and an impressive 87 percent of patent applications filed by the university in 2014 had student input.

When considering colleges, advises Humphreys, be sure to look for places where research opportunities are available to all students, not just honors or other subsets of students.

Debra Humphreys, vice president for policy and public engagement. Collaborating on original research gets students working closely with faculty members, posing questions, making empirical observations, and using technology in ways they can’t in class.

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C

olleges have been sending students abroad for a century, but the experience is no longer mainly about gaining exposure to a different culture and practicing the language. More often now it’s about making use of locations to provide students across majors with an international perspective to take into their field, says Jim Lucas, assistant dean for global education and curriculum at Michigan State University. MSU annually sends 2,500 undergrads on nearly 300 trips to 60 countries, from Antarctica to Zambia. The experience is "not peripheral at MSU, it’s integral," says Brett Berquist, until recently the executive director of the school’s Office of Study Abroad (now director of the international office at the University of Auckland in New Zealand). MSU Spartans have numerous ways to gain a global experience, from spring-break travel and study trips that run four to six weeks to the traditional semester abroad.

Recent chemical engineering grad Mario Gutierrez spent one month in Sweden and Germany exploring renewable energies. He visited a Swedish paper mill that harnesses the heat produced making paper to generate electricity, for example, and learned about how biogas, a gaseous fuel created by the breakdown of organic matter that isn’t common in the U.S., is used in Germany. “It gave me a different perspective on engineering,” says Gutierrez, a first-generation college student from Powell, Wyoming, who also took four spring break trips to volunteer at orphanages in Mexico. An MSU study of the impact of these programs showed that students who go abroad take less time to graduate and do so with a higher GPA. Other research shows that the experiences increase participants’ self-confidence and expand the diversity of their social network.
Emily Huebner  
Senior, Biochemistry

I found my research position at the Fred Hutchinson Cancer Research Center through the URP's database. This position gave me the opportunity to put into practice the material I’ve learned in classes, as well as attend lectures and seminars that are both applicable to the research I work on and lay the foundation for my future study of the pathology and pathophysiology in hematology-oncology that I will learn medical school. Thanks to a travel award from the URP, I had the opportunity to present my research at the American Society of Hematology's annual meeting. Working with the URP as an Undergraduate Research Leader has allowed me to connect with my peers and show them how research can provide so much more than expanding their education.
Fact Sheet
Undergraduate Research at the UW

The Undergraduate Research Program (URP) facilitates research experiences for students in all academic disciplines through advising, initiatives, and other resources. URP works to expand research opportunities for undergraduates, supports faculty and academic departments to integrate undergraduate research into their curricula and programs, and provides public events for students to present their scholarly work.

Overall Participation in Research

In 2014-15, 7,400 undergraduate students participated in at least one quarter of research guided by UW faculty.

Annual Undergraduate Research Symposium (May 20, 2016)

1049 undergraduate presenters (98 UW departments; 555 UW faculty mentors; 99 postdoctoral, 136 graduate student and 68 research staff mentors; 86 non-UW students; 21 non-UW schools; offered in collaboration with UW McNair Scholars Regional Conference)

Annual Summer STEM Poster Session (August 17, 2016)

74 participants representing 13 UW summer science, technology, engineering, and mathematics (STEM) undergraduate research programs, faculty mentor departments and centers

In 2015-16, URP provided services and support to undergraduates, including:

- One-on-one advising with URP staff (667 students)
- URP credit-bearing courses (102 students; 102 credit hours), and workshops and information sessions (1059 students)
- Student scholarships through grant, endowment, and gift support, including:
  - Mary Gates Research Scholarships through the Mary Gates Endowment for Students ($515,242; 194 awardees)
  - Washington Research Foundation Fellowships ($85,500; 12 awardees)
  - Levinson Emerging Scholars ($71,178; 11 awardees)
  - Summer Institute in the Arts & Humanities ($85,500; 19 awardees)
  - Undergraduate Research Conference Travel Awards ($32,891; 49 awardees)
  - Northwest Fisheries Science Center (NOAA) ($5,300; 1 awardee)
  - Scan Design Innovations in Pain Research Summer Program ($25,000; 5 awardees)
  - CoMotion Mary Gates Innovation Scholars ($55,000; 11 awardees)
- Undergraduate Research Leaders: 39 experienced undergraduate researchers who receive professional support and training to serve as leaders and peer mentors conducted outreach events, sharing their undergraduate research experience and URP resources with peers including First Year Programs (24 freshman interest groups visited).

URP supports mentors and collaborates with departments, schools, and colleges to increase quality and participation in undergraduate research:

- Coordination of department-based programs such as Summer STEM collaboration.
- Faculty development workshops, collaborative grant writing, and individualized services to ensure faculty can participate in undergraduate research according to their own research and teaching agendas
- Undergraduate research mentoring workshops and informal coaching for graduate students and postdoctoral associates serving as research advisers to UW undergraduates.
- Campus Partnerships: Office of Research; Mary Gates Endowment for Students; Simpson Center for the Humanities; McNair Scholars Program, Early Identification Program, Louis Stokes Alliance for Minority Participation (OMA&D); Department of Anesthesiology and Pain Medicine; UW Bothell; the Graduate School; UW Libraries; CoMotion; and STEM Summer Research Programs based in Colleges of Arts & Sciences, Engineering, Environment, and School of Medicine.

www.uw.edu/undergradresearch/