LETTER FROM THE ASSISTANT VICE CHANCELLOR

OFFICE OF SPONSORED RESEARCH

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Dear Campus Community,

Staff members in the Office of Connected Learning and the Office of Sponsored Research have spent the last several years becoming a more integrated team.

I write today to share our focused intent as a team and what this means to you as a member of the University of Washington Bothell campus community.

Based on the campus strategic plan and on input from our community, the goals of our team are to continue building trust, catalyze connected learning experiences for students, and support research administration functions across campus.

Our team members and their roles can be viewed on our websites:
- Office of Connected Learning
- Office of Sponsored Research

Updates:
Community-Based Learning & Research (CBLR) is now Community-Engaged Learning & Research (CELR). CELR better articulates both in-person and remote engagement with the community and aligns with the evolution of tri-campus and national language in this area.

The Sponsored Research team is evaluating support offered to faculty in each of the schools, documenting revised policies and procedures to continue providing consistent, accessible services.

We are so grateful to Ann McMahon, who has been a valuable member of our team and a resource to faculty for more than six years. She plans to retire in March 2023 so please join us in wishing her well as she starts this new chapter.

In closing, please let us know if you have new ideas about how we can work with you in support of your goals. Feel free to contact me, any member of our integrated teams, or visit our website to make a connection.

On behalf of our entire team,

Carolyn Brennan, Assistant Vice Chancellor
Connected Learning and Sponsored Research

December 2022
OFFICE OF SPONSORED RESEARCH

The UW Bothell Office of Sponsored Research provides resources and support for research administration to advance investigators’ agendas. Year after year, the team supports academic inquiry through research centers at UW Bothell by facilitating the submission of competitive grant proposals to a wide array of sponsors while managing awards in a compliant manner for individual principal investigators and units.

AWARDS BY SPONSOR TYPE

Most grant submissions from UW Bothell faculty and staff are from federal agencies. Other agencies include state and county funding, non-profit organizations, as well as other universities without a flow-through federal sponsor. The full lists of grant proposals and awards are found in the Appendix on page 23.

Funding Source and Amounts

- Federal: $6,797,977
- Non-profit: $709,355
- State & local agencies: $219,075

88% of UW Bothell sponsored research awards originated from federal agencies in FY 2022. 9% came from non-profits and foundations. 3% were from state and local agencies.
2022 AWARD SUMMARY

Five-year submission history

In fiscal year 2022, the Office of Sponsored Research facilitated the submission of 53 grant proposals requesting $28,130,909.

- **FY 2018** $49,914,198 requested, 94 proposals
- **FY 2019** $30,340,804 requested, 64 proposals
- **FY 2020** $36,843,748 requested, 96 proposals
- **FY 2021** $40,262,394 requested, 92 proposals
- **FY 2022** $28,130,909 requested, 53 proposals

Five-year award history

In fiscal year 2022, Sponsored Research assisted with the acceptance of 42 awards totaling $7,726,407.

- **FY 2018** $6,727,707 received, 31 awards
- **FY 2019** $7,588,457 received, 28 awards
- **FY 2020** $5,917,505 received, 45 awards
- **FY 2021** $12,023,844 received, 59 awards
- **FY 2022** $7,726,408 received, 42 awards
AWARDS AND EXPENDITURES

Awards by group
Grant funding awarded to each school, program, or center at UW Bothell

<table>
<thead>
<tr>
<th>Group</th>
<th>Award Amount in Dollars ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science, Technology, Engineering &amp; Math (STEM)</td>
<td>$3,156,080</td>
</tr>
<tr>
<td>Goodlad Institute for Educational Renewal</td>
<td>$2,467,001</td>
</tr>
<tr>
<td>Institutional Awards</td>
<td>$978,296</td>
</tr>
<tr>
<td>Nursing &amp; Health Sciences (NHS)</td>
<td>$935,514</td>
</tr>
<tr>
<td>Interdisciplinary Arts &amp; Sciences (IAS)</td>
<td>$111,661</td>
</tr>
<tr>
<td>Center on Reinventing Public Education (CPRE)</td>
<td>$40,000</td>
</tr>
<tr>
<td>Business</td>
<td>$37,885</td>
</tr>
</tbody>
</table>

Graph indicates award amounts received by each group ranging from $37,885 in the School of Business to $3,156,080 in the School of STEM.

Expenditures by group
Award expenditures by school, program, or center

- Science, Technology, Engineering & Math
- Institutional awards
- Nursing & Health Sciences
- Goodlad Institute for Educational Renewal
- Interdisciplinary Arts & Sciences
- Center on Reinventing Public Education
- Business

UW Bothell spent $7,771,039 in sponsored award expenditures in FY 2022. The Office of Sponsored Research assisted in supporting 48 investigators and managed 104 award budgets.
Our Violence-Free Campus

$550,000 was awarded for "Our Violence-Free Campus," a collaboration with UW Bothell and Cascadia College. This award from the Office on Violence Against Women (OVW), a division of the U.S. Department of Justice, is the first time UW Bothell has received a Campus Program grant from the OVW.

The vision for the funding is that all students within the co-located institutions will have access to violence prevention education, that all community members will have the training needed to prevent harm from happening, and that confidential advocacy will be available to all who have experienced harm.

“"The funding and technical support provided by this award will be transformational for UW Bothell and Cascadia College," said Elizabeth Wilmerding, “This is a significant investment in our community, and we anticipate it will have a meaningful impact on the experiences of students, faculty and staff on our campus.” Melissa Tumas is the grant director for this program. Read full article.

Establishment of the Center for Biotechnology Innovation & Training

The school of STEM at the UW Bothell received $750,000 as part of the $1.5 trillion FY 2022 omnibus spending signed by US President Joe Biden in March 2022.

The funding supports the creation of a new center to support the fast-growing biotechnology companies in the region. $750,000 is earmarked for the School of STEM which will go toward expanding curriculum, increasing student-faculty research, and creating a pipeline of talent for the biotech/biomedical device sector called the Center for Biotechnology Innovation & Training (CBIT).

The CBIT will support innovation and develop a future workforce of UW Bothell graduates, including those traditionally underrepresented in STEM, with a high level of training specifically tailored to the industry. It will house core UW Bothell faculty from chemistry, biology, engineering, physics, computer science, health studies, and business with expertise in biotechnology, biomedical device engineering, and advanced manufacturing.

This investment in workforce training will provide new opportunities for biotech companies to work directly with UW Bothell. Learn more about CBIT.
INTERNAL FUNDING - UW SEED GRANTS

2022 Scholarship, Research, and Creative Practice (SRCP) Seed Grants

The SRCP Seed Grant program competitively supports UW Bothell faculty in all disciplines who are starting new projects or relaunching current projects in new directions that have the potential for internal UW and/or external funding. In 2022, UW Bothell Academic Affairs awarded $222,057 to these eight recipients.

- **Drs. Robin Angotti and Kelvin Sung** Using Emerging Technologies to Create Common Learning Environments
- **Dr. Ching-In Chen** Breathing in a Time of Disaster - Emergent Broadcast System
- **Dr. Seungkeun Choi** Electromagnetic Modulation of Organic Electrochemical Transistors (OECTs) for Chemical/Biological Sensing Applications
- **Drs. Linda Eaton and Bryan White** Short Mindfulness Activity to Reduce Test Stress (SMARTS)
- **Drs. Daniel Jaffe and Brandon Finley** Impacts of Freeways, Cooking and Wildfires on Indoor Air Quality in a variety of WA households: Towards Actionable Solutions
- **Dr. Alka Kurian** Fourth Wave Feminism in the Global South: A Postcolonial Backlash
- **Dr. Santiago Lopez** New insights on the spatial dynamics of plant invasions in urban parks in the Pacific Northwest
- **Dr. Lori Robins** The Persistence of *P. aeruginosa* in Chronic Wound Biofilms: Insight into the Mechanisms of Action

Royalty Research Fund

The Royalty Research Fund (RRF) is a competitive awards program that provides research support to University of Washington faculty. Funded by royalty and licensing fee income generated by the University’s technology transfer program, the RRF has been offered twice a year since 1992. Three UW Bothell faculty received funding from the Royalty Research Fund this year.

- **Dr. Shima Abadi** Exploring the use of Distributed Acoustic Sensing (DAS) data for Ocean Acoustics
- **Dr. Jennifer Atkinson** An Existential Toolkit for Climate Justice Educators
- **Dr. Martha Groom** Impacts of Undergraduate Equity and Inclusion Programs on Partner Organizations: A Case Study of how DDCSP impacts Conservation Organizations

The RRF welcomes proposals with budgets up to $40,000. Approximately $1M is awarded per round. The success rate for applicants averages 25%.

Applications are due on the last Monday in September and the first Monday in March every year.

Learn more about how to apply for the RRF.
The Research Experiences for Undergraduates (REU) programs at UW Bothell hosts undergraduate students for ten weeks each summer. They participate in research projects and are exposed to professional development activities and research-oriented careers. Participants are matched with faculty mentors based on student interests and they join a cohort of students participating in weekly seminars, workshops, as well as research resources and skills. The Summer of 2022 brought over 45 students to campus, taking part in three programs.

The 2022 REU program tracks led by UW Bothell faculty included the following projects:

**Physics REU: Computational Physics and Astrophysics, Gravitational Wave Astronomy, Physics Education, and Experimental Condensed Matter**
- Dr. Eric Salathé, Associate Professor, Physical Sciences Division
- Dr. Paola Rodriguez Hidalgo, Assistant Professor, Physical Sciences Division
- Dr. Joey Shapiro Key, Associate Professor, Physical Sciences Division

**Heritage University STEM REU: Biotechnology, Computational Biology and Chemistry, LIGO Hanford Observatory, Pacific Northwest National Lab**
- Dr. Joey Shapiro Key, Associate Professor, Physical Sciences Division
- Dr. Linda Simonsen, Professor, Division of Engineering and Mathematics

**Math REU: Tiling Theory, Knot Theory, Optimization, Matrix Analysis, and Image Reconstruction**
- Dr. Casey Mann, Professor, Division of Engineering and Mathematics
- Dr. Milagros Loreto, Associate Professor, Division of Engineering and Mathematics
- Dr. Pietro Paparella, Associate Professor, Division of Engineering and Mathematics
Husky Highlights is a webinar series held several times each quarter featuring UW Bothell faculty and staff making advances in research, scholarship, and creative practice. Webinars are open to the public and recorded for later viewing. View the 2021-2022 recordings.

Resilience through Mindfulness
Presented by Dr. Ko Niitsu and Dr. Hoa Appel

Mindfulness can improve resilience to stress and has been shown to be effective. The mental health of university students has become a significant concern, especially during the COVID-19 pandemic. Because most mindfulness-based interventions are held in-person, little is known about the efficacy of interventions delivered virtually. This webinar presents the results of a virtual mindfulness-based intervention delivered to undergraduate and graduate students via Zoom and an app during the 2020-2021 academic year.

Urban Birds: Science and Creativity in Informative Pieces
Ciencia y Creatividad en Piezas Informativas
Presented by Dr. Ursula Valdez & Mag. Andrea del Carmen De La Cruz Vergara

Urban Birds: Science and Creativity in Informative Pieces, is an interdisciplinary pedagogical experience, to increase appreciation for lesser-known or stigmatized species of urban birds. The program was conducted as a COIL module (Collaborative Online International Learning) between the "Editorial Graphic Design" course of the Pontificia Universidad Católica del Perú and the "All About Crows and other Urban Birds" course of the UW Bothell. Students worked in international teams to create infographics about urban birds for educational purposes in their respective cities.

STEM Public Outreach Team (SPOT): Impact on the Persistence of Diverse STEM Students
Presented by Dr. Joey Shapiro Key and Dr. Linda Simonsen

The UW Bothell STEM Public Outreach Team (SPOT) trains undergraduate students to present current STEM research topics to regional community colleges, K-12 schools, and community groups. SPOT fosters connections across campus and in the community and supports belonging and motivation for STEM students through community outreach. Learn about the program and the UW Center for Evaluation and Research for STEM Equity (CERSE) evaluation that seeks to identify and study factors which contribute to persistence in STEM for underrepresented groups.
The Office of Connected Learning fosters high-impact experiences that contribute to innovative and influential teaching, learning, and research. A commitment to connected learning builds greater capacities for students, staff, and faculty to connect theory to practice, exercise adaptive leadership skills across novel settings, and embrace the multiple contexts we all bring to our work. It recognizes that ideas, discoveries, research, and institutional successes result from the relationships and human ecosystems that feed them. UW Bothell is distinguished by its focus on connected learning and cross-disciplinary research, scholarship, and creative practice, exemplified by their accomplishments in 2022.

SPECIAL THANKS TO OUR DONORS

We are grateful for the donations that allow us to create student programs. These programs provide valuable career-readiness skills, stipends, scholarships, and the opportunity to find community through hands-on experience. While some of our programs are funded through endowments, others are made possible by generous gifts from businesses and organizations. We also appreciate the support of individuals who contribute during Husky Giving day. Your gifts make a difference.

Donate Today
CONNECTED LEARNING EXCELLENCE AWARD

Through a permanent endowment established by Richard C. and Lois M. Worthington in 1997, the Connected Learning Excellence Award supports UW Bothell faculty and faculty-led teams who provide high impact experiential learning opportunities for students. The goal is to support equitable opportunities for students to explore their passions, interests, and career paths through unique transformative learning projects within all schools.

$60,200 was awarded and 12 projects were funded during the 2021-2022 academic year.

Multi-Disciplinary/ Multi-School
- **Dr. Jody Early** - SNHS; **Dr. Pierre Mourad & Dr. David Socha** - STEM
  - Creating a Virtual Reality Rehabilitation Therapy for Patients With Upper Limb Amputations
- **Gavin T. Doyle & Dr. Avery Cook Shinneman** - IAS; **Dr. Charity Lovitt** - STEM
  - HIPs for FYPPs: Connecting Pre-major Students to High-Impact Practices
- **Denise Hattwig & Penelope Wood** - UW Bothell/Cascadia Library; **Dr. Julie Shayne** - IAS
  - Badass Womxn in the Pacific Northwest Zine made by students in Dr. Shayne's "Rad Women in the Global South"
- **Dr. Ben Gardner, Dr. Ron Krabill & Eva Navarijo** - IAS; **Natalia Dyba** - Global Initiatives
  - UW Bothell Global Scholars Program
  - School of Interdisciplinary Arts & Sciences
- **Dr. Melanie Malone**
  - Determining the Roots of Contamination in Urban Community Gardens
- **Anida Yoeu Ali & Masahiro Sugano**
  - Global Media Lab Course
- **Dr. Ching-In Chen**
  - BIPOC Story Circle Project
- **Dr. Denise Vaughan**
  - Speech and Debate
- **Dr. Christian Anderson**
  - Seattle Black Spatial Histories Institute Proposal

School of Science, Technology, Engineering, & Mathematics
- **Dr. Shima Abadi**
  - Connected Learning Experience in Ocean Sciences
- **Dr. Joey Shapiro Key**
  - UW Bothell STEM Public Outreach Team (SPOT)
- **Dr. Salwa Al-Noori**
  - Mentorship of Student-Centered Collaborative Interdisciplinary Research and Creative Practice

18 Global Scholars received $500 stipends for their participation.

[Image of Zine from Dr. Shayne's class]

[Image of Dr. Malone's students working in a community garden]
**HUSKY CATALYST - DIGITAL SCHOLARS**

In spring 2022, the Digital Scholars program began providing first-generation students with skills in digital marketing, data analytics, and data visualization. Matched with a UW Bothell faculty, alumni or industry mentors, students received support to complete a project and build networks with staff, faculty, and partners.

**Rehabilitation Reimagined**

Strokes, which occur when a blood vessel in the brain is either blocked or ruptured, are the leading cause of serious illness and long-term disability in the United States. After a stroke, people can have difficulty with vision, the ability to walk, speak, and coordinate movements. Physical therapists provide treatments for patients to improve or restore function, though it can often take months or years.

Dr. Pierre Mourad, professor in UW Bothell’s School of STEM, is working with colleagues to reimagine stroke rehabilitation. Also a professor in the UW’s Department of Neurological Surgery in Seattle, Mourad conducts research at hospitals and has seen the challenges doctors face with patient rehabilitation — and is determined to generate solutions. Collaborating with students and faculty, Mourad is gamifying the therapy session and, essentially, making it fun. Based on his interests, Digital Scholar participant and student Daniel Dirdala was paired with Mourad’s team working on virtual reality rehabilitation, where he gained invaluable skills and extensive research experience. The project he worked on is called **Gizmo**, a robot that turns physical rehabilitation into a game that keeps patients engaged. **Gizmo** began as a capstone project by some of Mourad’s students. [Read Daniel’s story](#).
CURRICULAR INTEGRATION OF CONNECTED LEARNING SUPPORTED HIGH-IMPACT PRACTICES

During the 2021-22 academic year, 102 unique courses* across the UW Bothell curriculum embedded High-Impact Practices (HIPs), including community-engaged learning, global learning, and undergraduate research.

Of the HIPs supported by the Office of Connected Learning during the 2021-22 academic year, the greatest number of courses embedded undergraduate research (54 unique courses), followed by community-engaged learning (51 courses), then global learning (12 courses). Several courses embed more than one type of HIP, resulting in a higher total than listed in the previous chart.

Of these courses, 76.5%, were upper division (300- and 400-level) courses; 16.7% comprised lower division courses (100- and 200-level) and 6.9% graduate-level courses. Given the Office of Connected Learning’s priority to increase access to HIPs at the pre-major level, it’s worth noting that the number of unique courses in the lower division increased from 13 to 17 in the last academic year, representing a 31% increase.

* 102 unique courses had 258 unique course sections, with many courses offered multiple times during multiple quarters. This graph shows unique course sections to better represent the curricular integration of HIPs.

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The Office of Connected Learning team began developing shared language about the value and desired outcomes of students' participation in academic experiences. Through a series of focus groups engaging more than 40 faculty/staff and 21 students, the team mapped exemplar courses and programs and articulated student learning outcomes that can be applied across a variety of courses and programs. Building on common areas of strength, the team collectively drafted and refined student learning outcomes on the following three themes.

As a result of involvement in Connected Learning experiences, students will:

**Prepare for a career or profession through experiential learning**
- Apply theories, concepts, and knowledge to hands-on experiences in community, professional or university settings
- Gain skills and competencies needed in a specific career or professional field
- Grow a professional network, e.g., discuss career/professional steps with a mentor
- Examine challenges and opportunities encountered by professionals or community leaders in applied settings

**Find belonging and community**
- Articulate a sense of identity/authentic self and feel comfortable sharing it with others
- Develop supportive relationships through substantive interactions and collaboration with faculty, staff, peers, and/or community members
- Develop a sense of connection to UW Bothell and the broader community
- Develop improved confidence, determination and persistence in the face of challenges

**Contribute to a more just and equitable community**
- Practice respect, responsiveness, and compassion
- Develop or deepen equity-oriented and strength-focused practices when interacting with people and communities that are similar and different from your own
- Understand diversity and its implications to organizations, teams, individuals, and community to improve communication and collaboration
- Engage in critical and courageous conversations about race, gender, ability, class, or culture
- Show evidence of using concepts or a framework that centers equity, access, and inclusion
Community-Engaged Learning and Research (CELR) courses are hands-on, reflective, and skill-building opportunities for students to engage with campus and community projects. Through a mutually beneficial exchange with community partners, students apply theory to practice, develop professional experience, and contribute to the public good.

“It was touching to learn what an impact I had on them. As someone in the educational field, that’s exactly what I hope for — to give students not just knowledge but also confidence, grit or even, a dream.

- Desirae Vega

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- Desirae Vega

In her senior year at UW Bothell, Education Studies major Desirae Vega tutored at a local high school for the AVID program (Advancement Via Individual Determination) planning lessons, presentations, and activities to help the students get ready for college.

What she didn't plan for, however, were the meaningful relationships that formed. In those six months, her students said Vega became a “mentor, role model, and friend.” Their words were especially moving for Vega who, for as long as she can remember, wanted to follow in her mom’s footsteps to become a teacher. As an AVID tutor, she shared this enthusiasm for learning and for college with the students at Jackson High School. Read Vega’s story.
GLOBAL INITIATIVES

Global Initiatives supports global engagement of UW Bothell students, faculty, and staff through:

- Expanding study abroad
- Internationalizing the curriculum
- Developing intercultural competence
- Advising on international fellowships
- Highlighting global dimensions of diversity
- Encouraging global engagement locally
- Managing institutional partnerships worldwide

“I was really scared at the beginning of my study abroad application because no one in my family has done it before. After talking with some UW Bothell staff, I felt reassurance that I can do it.”

- Rahwa Gebretsadikan, Senior in Health Studies, 2022 Global Scholar

Study Abroad
After emerging from the pandemic, in Winter 2022, UW Bothell students were again able to study abroad, with students traveling to eight different countries.

Virtual Global Engagement
Students engaged virtually with host communities in 11 countries, either through virtual programs, internships, or COIL (Collaborative Online International Learning) courses. Without traveling abroad, COIL courses deepen global engagement of students in the classroom by implementing online collaboration with international partners.

Study Abroad destinations
Canada
France
Greece
Italy
Netherlands
Spain
Taiwan
United Kingdom

Virtual destinations
Bangladesh
Germany
India
Iraq
Japan
Kenya
Mongolia
Peru
Rwanda
South Africa
South Korea
GLOBAL LEARNING

Quick FACTS

Despite COVID-19 related cancellations and restrictions, 237 UW Bothell students actively engaged in global learning between Summer 2021 and Spring 2022 through the following programs:
- Global Scholars (two cohorts): 31
- Study Abroad (in-person): 13
- Study Abroad (virtual): 2
- Global Internship (virtual): 15
- Collaborative Online International Learning (COIL) course: 176

2021–22 COIL courses offered
- B BIO 293: History and Philosophy of Science
- B CORE 104: All Things... Crows
- B CORE 115/116: Free Flow: Global Perspectives on Water
- BHLTH 497: Resilience and Mental Health
- BHS 403: Intro to Epidemiology
- BIS 352: Mapping Communities
- BCULST/BPOLST 593: Urban Planning & Geography

UW Bothell students received $96,660 in scholarship funding to support their global experiences

$24,000
Benjamin Gilman International Scholarship

$35,500
UW Study Abroad Scholarship

$37,160
UW Bothell Study Abroad Ambassador Scholarship

STUDYING ABROAD IN ITALY

Ciao! My name is Diego, a student majoring in Computer Science. During spring quarter of my Junior year, I studied abroad in Italy. Belonging to a STEM major I stressed whether I'd be able to jump into an anthropology-focused class and complete all the work at the same quality as the other students, but also whether I'd spent too much time sitting in front of my computer these last three years in college to be able to appreciate all the architectural and artistic beauty Italy had to offer...

As the program nears its end, I look back at where I started and how far I've come in these 10 weeks. From my first day in Rome not knowing how to navigate the city to soon becoming a city mouse, walking its streets at 3 am and understanding their transit system down to a science. I get the hype! ... I've become more open-minded and compassionate on this trip seeing how people live differently than I do. Read more about Diego's journey at: uwbglobal.blog

Diego Guadarrama
**RESEARCH & CREATIVE PROJECTS FOR UNDERGRADUATES**

### Undergraduate Research Symposium
The annual Undergraduate Research Symposium was held at UW Seattle on May 20, 2022. From UW Bothell, 24 students (22 seniors, one junior, and one first-year) participated and presented their work either as a poster or an oral presentation. One of the students, Youssef Beltagy, was awarded the UW Bothell President's Medal for his multidisciplinary work in computer science.

### External research collaborations

#### Institute of Stem Cells and Regenerative Medicine (ISCRM)
In coordination with the Office of Connected Learning and Research and Creative Projects for Undergraduates, Dr. Bryan White helped place three students of color to work as research assistants at the ISCRM. Half their stipends were paid with the Founders Fellows Endowment, managed by Connected Learning, while the other half was funded by the ISCRM Fellowship Fund.

#### Pacific Northwest Research Institute (PNRI)
An agreement with PNRI was forged to provide undergraduate research students with opportunities to do research during the academic year for credit, as well as research during the summer as a paid internship.

#### Seattle Institute of the Arts
The Seattle Institute of the Arts will provide paid experience to any student who works on creative projects or scholarly activities.

### Summer FUNdamentals
Designed to support students at UW Bothell, Summer FUNdamentals is a workshop series that engages students participating in undergraduate research or creative practice.

In addition to participants in Research Experiences for Undergraduates (REU) and Heritage Students, attendees included students, staff, and faculty involved in research and creative projects at the UW Bothell, UW Seattle, and UW Tacoma campuses.

Eight presentations/workshops from experts in their fields were presented, spanning topics from mental health to applying to graduate schools.

### Undergraduate Research Gatherings
A series of regularly scheduled undergraduate research sessions was launched in May 2022 at the Truly House, where the Office of Connected Learning is housed. More than 43 students attended the first gathering to share stories and get to know each other. With these monthly gatherings, students began to develop a sense of belonging, with an end goal of eventually creating a society of student researchers.

As a result of the first gathering, the students launched an activity called Undergraduate Research Workshops, which began in October 2022.
RESEARCH AND CREATIVE PRACTICE

STUDENT STORY

When Youssef Beltagy left Egypt, the only thing he knew was that he was getting a fresh start and a chance to pursue a career in STEM. He left behind everything familiar and started at Bellevue College with an exploratory mindset that eventually led him to receive the UW Bothell 2022 President’s Medal.

A graduate with a major in Computer Engineering and a minor in Mathematics, Beltagy excelled in the most challenging classes. It was his passion for research, discovery, and innovation that made him stand out.

This passion inspired him to take on diverse research projects ranging from mitigating web application security vulnerabilities, creating a sensor system for salmon research, and improving the quality of OpenStreetMap data to building a smart asthma inhaler.

He and co-lead Sarah Panther, a 2021 Computer Engineering alumna, presented their work at the 2022 Undergraduate Research Symposium in May 2022. Their project received one of 16 Population Health Recognition Awards, a high honor conferred by the University’s Population Health Initiative.

MARY GATES RESEARCH SCHOLARSHIP

Four UW Bothell students received the Mary Gates Research Scholarship in Autumn 2021 and Winter 2022

Cameron James Norris  Dessirée Ortaç  Milana Premkumar  Michael Cho
**COLLABORATORY**

The Collaboratory is a creative and open environment that allows students to work on academic and personal projects individually or as a team. The space provides equipment, materials, and training needed for co-creating physical and/or digital prototypes, art, and other work products.

**Collaboratory Goals**

- Support cross-disciplinary teams working on impactful projects of various duration with community partners.
- Prioritize ideation and collaboration over fabrication while allowing for sufficient work space and equipment to support virtual and physical and prototyping.
- Curricular and co-curricular student experiences co-exist seamlessly.
- Provide secure spaces for ongoing projects that may span more than one quarter.
- Ensure flexibility for changing initiatives.
- Allow visibility of work being performed while being inviting and welcoming to students of all interest levels.
- Prioritize space as student space for the entire student population.

The possibilities are endless — if you can come up with the idea, chances are we have what you need to make it.

—Jesus Govela, Space Manager

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**The Collaboratory opened on February 8, 2022**

**Equipment list**

- x9 3D printers
- x2 laser cutters
- x2 CNC mills
- x3 button presses
- 3D scanner
- Sewing machine
- CRICUT cutter
- Soldering station

Over x160 3D prints made

Special donor thanks to WSECU and nuShootz

Data reported is from February 8, 2022 - June 30, 2022

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Jesus Govela speaking at Collaboratory Grand Opening event
IMD STUDENTS USE COLLABORATORY

3D Printed Head

Simon Vincini, Interactive Media Design (IMD) student, made frequent use of the Collaboratory while working on his capstone project. His interest started with using the Collaboratory’s virtual reality equipment but later turned to the 3D scanner. Using his head as a model, he was able to capture a 360-degree scan, make adjustments with modeling software, and printed a life-sized human head using an Ultimaker S5 3D printer. His future plans include adding a microphone, speakers, and lights to make the plastic replica interactive.

Simon Vincini scanned his own head and had it 3D-printed, creating a life-sized replica.

Team Abyssal

Another IMD capstone team, Team Abyssal, used the space regularly to work together, including filming the video portions for their project. They created pieces of their art installation project before they set it up publicly for their final presentations. ABYSSAL is an immersive, multi-sensory art installation that utilizes video projections, sound, and sculptures to create a unique experience of a deep sea habitat to foster curiosity and empathy for ocean ecosystems. Learn more about the project.
APPENDIX

PROPOSALS

53 grant proposals were submitted in FY 2022 totaling $28,130,909

Principal investigator, originating sponsor, total requested

Academic Affairs

• Jones, Sharon A., US Agency for International Development, $178,821

Center on Reinventing Public Education

• De Armond, Michael, RESCHOOL, $40,000

Goodlad Institute for Educational Renewal

• Bellamy, G. Thomas, Washington State Office of Superintendent of Public Instruction, $150,000
• Hintz, Allison, College Spark Washington, $149,948
• Smith, Antony T., Washington STEM, $15,001
• Tsurusaki, Blakely, National Science Foundation, $2,565,037
• Tsurusaki, Blakely, University of New Hampshire, Durham, $1,300,842
• Tzou, Carrie, National Science Foundation, $1,137,042
• Tzou, Carrie, National Science Foundation, $4,306,537

Environmental Education and Research Center at St. Edward State Park

• Stokes, David, King County Flood Control District, $174,987

School of Interdisciplinary Arts & Sciences (IAS)

• Kurian, Alka, National Endowment for the Humanities, $64,383
• Malone, Melanie, Environmental Protection Agency, $1,264,042
• Malone, Melanie, King County Wastewater Treatment Division, $55,008
• Maxwell, Sara M., National Science Foundation, $47,999
• Simpkins, Neil, University of Nebraska, Lincoln, $61,237
• Turner, Robert, National Fish and Wildlife Foundation, $50,000

School of Nursing & Health Sciences (NHS)

• Appel, Hoa B., Patient-Centered Outcomes Research Institute, $249,987
• Appel, Hoa B., Cambia Health Foundation, $40,000
• Appel, Hoa B., Patient-Centered Outcomes Research Institute, $249,746
• Eagen-Torkko, Meghan, Office of the Assistant Secretary for Health, $934,917
• Eaton, Linda, National Institutes of Health, $1,530,917
PROPOSALS

Principal investigator, originating sponsor, total requested

School of Science, Technology, Engineering and Math (STEM)

- Champagne, Cory, National Science Foundation, $156,583
- Cornick, Leslie, US Department of Education, $750,000
- Dupuis, Marc, National Security Agency, $291,403
- Dupuis, Marc, National Security Agency, $295,852
- Dupuis, Marc, National Security Agency, $95,884
- Dupuis, Marc, University of New York (SUNY), Albany, $254,977
- Fukuda, Munehiro, Institute of Electrical and Electronics Engineers, $4,423
- Jaffe, Daniel, Virginia Polytechnic Institute and State U, $30,246
- Jaffe, Daniel, National Oceanic and Atmospheric Administration, $457,005
- Jaffe, Daniel, Utah Dept of Environmental Quality Division of Air Quality, $294,707
- Mashhadi, Afra, Public Interest Technology University Network, $90,000
- Kim, Hyung, National Science Foundation, $919,837
- Lagesse, Brent, National Security Agency, $747,175
- Mann, Casey, National Science Foundation, $291,792
- Mann, Casey, National Science Foundation, $1,417,972
- Mourad, Pierre, National Institutes of Health, $2,948,354
- Nie, Kaibao, Northern Illinois University, $388,460
- Ramachandran, Subramanian, Jonathan Reichert Foundation, $757
- Ramachandran, Subramanian, Jonathan Reichert Foundation, $1,212
- Robins, Lori, BRIOTECH INC., $81,180
- Salathé, Eric, National Science Foundation, $18,000
- Salathé, Eric, Washington State University, $1,748,949
- Scherr, Rachel, National Science Foundation, $154,620
- Shapiro Key, Joey, Alfred P. Sloan Foundation, $249,989
- Shapiro Key, Joey, National Science Foundation, $25,972
- Si, Dong, National Science Foundation, $261,613
- Stiber, Michael, National Security Agency, $744,114
- Sung, Kelvin, Washington Student Achievement Council, $84,504
- Wacker, Douglas, Washington Department of Fish and Wildlife, $3,500
- Yoon, Jong, National Institutes of Health, $336,359
- Yoon, Jong, Washington State Department of Labor and Industries, $174,872

Student Affairs

- Wilmerding, Elizabeth, State of Washington Department of Commerce, $244,147
AWARDS

42 awarded projects were funded totaling $7,726,407.

Principal investigator, title, originating sponsor, total award, award start and end dates

Academic Affairs
- Jones, Sharon A, CCAMPIS at UW Bothell, US Department of Education
  $89,227, 9/1/2020 - 8/31/2024
- Jones, Sharon A, CCAMPIS at UW Bothell, US Department of Education
  $89,226, 10/1/2020 - 9/30/2024*
- Jones, Sharon A, CCAMPIS at UW Bothell, US Department of Education
  $89,226, 10/1/2020 - 9/30/2024*

Center on Reinventing Public Education
- De Armond, Michael, Examining the Learning Dollars Initiative, RESCHOOL
  $40,000, 4/6/2021 - 11/30/2021

Chancellor’s Office
- James, Scott, UW Bothell application for CARES funding, US Department of Education
  $50,617, 7/27/2020 - 3/8/2022

Goodlad Institute for Educational Renewal
- Bellamy, G. Thomas, Enhancing Capacity for Special Education Leadership Enhancement Project, Washington State Office of Superintendent of Public Instruction
  $150,000, 9/1/2021 - 8/31/2022
- Bellamy, G. Thomas, Administrators Improving Multi-Tiered Systems of Support, Washington State Office of Superintendent of Public Instruction
  $159,064, 10/1/2021 - 9/30/2022
- Smith, Antony T., Story Time STEM 2022, Washington STEM
  $15,000, 1/1/2022 - 12/31/2022
- Tsurusaki, Blakely, NSF Advancing Innovation and Impact in Undergraduate STEM Education at Two-year Institutions of Higher Education: I-RiSE, North Seattle College
  $250,952, 12/1/2021 - 11/30/2025
- Tzou, Carrie, Improving the STEM preparation of K-5 preservice teachers through a project-based, interdisciplinary approach, National Science Foundation
  $1,881,288, 10/1/2021 - 9/30/2025
- Tzou, Carrie, Workshop on writing grants for early career scholars in STEM & the learning sciences, Drexel University
  $10,697, 8/1/2021 - 7/31/2022
AWARDS

Principal investigator, title, originating sponsor, total award, award start and end dates

School of Business
- Kennedy, Deanna, Mental Model Convergence Cycles: Cognitive and Social Network Effects, US Army Research Office
  $37,855, 8/29/2018 - 10/28/2022

School of Interdisciplinary Arts & Sciences (IAS)
- Ferrare, Joseph J., New Applications of Social Network Analysis to Education Policy: Building the Capacity of the Field, Montclair State University
  $4,369, 11/1/2019 - 10/31/2022
- Malone, Melanie, Sample CitySoil Farm, Renton, WA, King County Wastewater Treatment Division
  $55,008, 4/20/2022 - 10/30/2022
- Malone, Melanie, RESTING SAFE: Collaborative Informal STEM Learning Between Researchers and Homeless Communities, University of Maryland, Baltimore County
  $4,284, 9/1/2020 - 8/31/2022
- Maxwell, Sara M., Collaborative Research: Predator facilitation across a variable marine environment, National Science Foundation
  $48,000, 10/15/2021 - 9/30/2024

School of Nursing & Health Sciences (NHS)
- Appel, Hoa B., Behavioral Health (BH) program to Washington State’s front-line health care workers, Cambia Health Foundation
  $40,000, 1/1/2022 - 12/31/2022
- Appel, Hoa B., Capacity Building for a PCOR Agenda on Behavioral Health in Underserved Populations, Patient-Centered Outcomes Research Institute
  $249,996, 8/1/2022 - 7/31/2024
- Early, Jody, Improving Behavioral Health in South Snohomish through a Behavioral Health Peer Advocate Training Program, Verdant Health Commission
  $90,536, 7/1/2021 - 6/30/2022
- Shirley, Jamie L., Advancing BIPOC Learning and Engagement (ABLE) Nursing Progression Project, Health Resources and Services Administration
  $554,982, 7/1/2022 - 6/30/2023

School of Science, Technology, Engineering and Math (STEM)
- Abadi, Shima, Data-Driven Analysis and Prediction of Ocean Ambient Noise in the Northeast Pacific Ocean Continental Slope, Office of Naval Research
  $190,000, 10/1/2019 - 9/30/2022
**AWARDS**

*Principal investigator, title, originating sponsor, total award, award start and end dates*

**School of Science, Technology, Engineering and Math (STEM), continued**

- Abadi, Shima, **Using reflection seismic data to quantify sub-seabed effects on short-range sound propagation**, Office of Naval Research  
  $95,880, 8/1/2021 - 7/31/2024
- Abadi, Shima, **Using reflection seismic data to quantify sub-seabed effects on short-range sound propagation**, Office of Naval Research  
  $150,000, 8/1/2021 - 7/31/2024*
- Abadi, Shima, **Data-Driven Analysis and Prediction of Ocean Ambient Noise in the Northeast Pacific Ocean Continental Slope**, Office of Naval Research  
  $190,000, 10/1/2019 9/30/2022
- Chen, Min, **Collaborative Research: Technology-Assisted Prosodic Study in Blackfoot and Aaniiih**, National Science Foundation  
  $140,351, 9/1/2021 - 2/28/2025
- Dupuis, Marc, **Virtual GenCyber Camp for Students in WA State: A Focus on Rural and Indigenous Populations**, National Security Agency  
  $119,299, 8/24/2021 - 12/31/2024
- Dupuis, Marc, **CAE Regional Hubs Collaboration with States Department of Education for the NW Region**, National Security Agency  
  $147,541, 9/2/2021 - 12/31/2023
- Kim, Sunwoong, **CRII: SHF: RUI: Custom Hardware Accelerators for Privacy-Preserving Image Processing**, National Science Foundation  
  $174,408, 9/1/2021 - 8/31/2023
- Jaffe, Daniel, **Support for Flask and In-Situ Observations at the Mt. Bachelor Observatory**, National Oceanic and Atmospheric Administration  
  $24,650, 6/15/2020 - 5/31/2023
- Mann, Casey E, **REU Site: Tiling Theory, Knot Theory, Optimization, Matrix Analysis, and Image Reconstruction**, National Science Foundation  
  $291,792, 9/24/2021 - 8/31/2022
- Rodríguez Hidalgo, Paola, **Collaborative Research: RUI: Understanding the Limits of AGN Feedback: a Dedicated Study of Extremely High Velocity Outflows**, National Science Foundation  
  $314,808, 9/2/2021 - 12/31/2023
- Salathé Eric, **CC* Compute: A campus-wide computing resource for research and teaching at the University of Washington Bothell**, National Science Foundation  
  $394,473, 9/1/2021 - 8/31/2023
- Salathé Eric, **Understanding the Mesoscale Response to Climate Change Using a Regional Climate Model Ensemble**, National Science Foundation  
  $18,000, 6/1/2021 - 5/31/2024
School of Science, Technology, Engineering and Math (STEM), continued

- Scherr, Rachel E., Collaborative Research: Changing physics and astronomy education culture: A reflective practice model of faculty development to support diversity, equity, inclusion, and excellence, National Science Foundation  
  $155,257, 5/1/2022 - 4/30/2027
- Shapiro Key, Joey, CAREER: Gravitational Wave Discovery Space, National Science Foundation, $80,000, 12/15/2019 - 11/30/2024
- Shapiro Key, Joey, CAREER: Gravitational Wave Discovery Space, National Science Foundation, $30,300, 12/13/2019 - 11/30/2024
- Shapiro Key, Joey, CAREER: Gravitational Wave Discovery Space, National Science Foundation, $25,972, 12/15/2019 - 11/30/2024
- Shapiro Key, Joey, STEM Pathways for Underrepresented Students of the Yakima Valley, Alfred P. Sloan Foundation  
  $249,990, 12/1/2021 - 6/30/2023
- Shapiro Key, Joey, UW Bothell NANOGrav PFC, University of Wisconsin, Milwaukee  
  $100,029, 4/1/2018 - 9/30/2022
- Shapiro Key, Joey, The NANOGrav Physics Frontiers Center, Oregon State University  
  $41,242, 4/1/2021 - 3/31/2023
- Stiber, Michael, An Intelligent Testbed for Critical Infrastructure, National Security Agency  
  $149,955, 9/10/2020 - 9/30/2022
- Sung, Kelvin H, WSAC affordability project, Washington Student Achievement Council  
  $70,031, 6/9/2022 - 6/30/2022
- Wacker, Douglas, Shewmaker Internship 2021-22, Washington Department of Fish and Wildlife  
  $3,500, 11/1/2021 - 6/30/2022
- Zaneveld, Jesse, CAREER: Holobionts Unfiltered: integrated comparative and experimental examination of the role of cnidarian innate immunity on microbiome structure and stability, National Science Foundation  
  $188,608, 3/1/2020 - 2/28/2025

Student Affairs

- Wilson, Timothy, Our Violence-Free Campus, US Department of Justice  
  $550,000, 10/1/2021 - 9/30/2024
- Wilson, Timothy, 2021-2022 Benefits Hub Emergency Financial Grants Overview, United Way of King County, $100,000, 7/1/2021 - 6/30/2022
- Wilson, Timothy, 2021-2022 Benefits Hub Emergency Financial Grants Overview, United Way of King County, $10,000, 7/1/2021 - 6/30/2022*

*Items with asterisks are additional payments on a project and not counted in the 42 new awards.
Connected learning happens in partnership. We recognize the many UW Bothell faculty and staff who embedded HIPs into their courses or programs, participated in Connected Learning-supported professional development, received the Connected Learning Excellence Award, and/or served in an advisory role to our team.

- Adam Warren
- Afra Mashhadi
- Alejandro Francetich
- Allison Hintz
- Amy Couto
- Amy Lambert
- Andrew Ballard
- Anida Yoeu Ali
- Antony T. Smith
- Anupama M. Bharadwaj
- Arkady Retik
- Ashley JoEtta
- Avery Cook Shinneman
- Becca Price
- Ben Gardner
- Benjamin Freedman
- Bryan White
- Caleb M. Trujillo
- Camille Walsh
- Casey Mann
- Ching-In Chen
- Chiyoun Lee
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- Imen Hannachi
- Jaime Navetta
- Janelle M Silva
- Jason Frederick Lambacher
- Jeffrey Kim
- Jennifer Atkinson
- Jin-Kyu Jung
- Jo Blue
- Jody Early
- Joey Shapiro Key
- Jong Yoon
- Joseph J. Ferrare
- Karam Dana
- Katarina Mucha
- Keith Nitta
- Keya Sen
- Kim Wilson
- Kosuke Niitsu
- Kristen Labrecque
- Laura Umetsu
- Linda Eaton
- Lori Robins
- Mabel Ezeonwu
- Machelle Allman
- Marc Dupuis
- Mark Chen
- Martha Groom
- Maureen West
- Melanie Malone
- Michael Stiber
- Michele B. Price
- Michelle Darci
- Milagros Loreto
- Min Tang
- Minda Martin
- Monique Taylor
- Nancy Kool
- Neil Simpkins
- Nhi P. Tran
- Nick Cuhaciyan
- Nora Kenworthy
- Pierre Mourad
- Pietro Paparella
- Rachael Gilchrist
- Raissa DeSmet
- Rob Turner
- Robin Fleming
- Ron Krabill
- S. Charusheela
- Salem Levesque
- Salwa Al-Noori
- Santiago Lopez
- Sara M. Maxwell
- Sarita Shukla
- Scott Bentley
- Shannon Roosma-Goldstein
- Shima Abadi
- Stefanie Iverson Cabral
- Stephen Jones
- Steve Collins
- Sukhman Kaur
- Sunita lyer
- Sunwoong Kim
- Surya D. Pathak
- Tara James
- Tyson E.J. Marsh
- Ursula Valdez
- Vicky Breckwich-Vasquez
- Wayne Kimura
- Yue Bian
In August, the Office of Connected Learning shared breakfast with more than 40 campus and community partners. It was a joyful time filled with connection and celebration after almost three years of mostly remote engagement.

CONNECTED LEARNING
COMMUNITY PARTNERS

Connected Learning is committed to creating and strengthening equitable and reciprocal partnerships in our community. We appreciate these partners for collaborating with us over the 2021-2022 academic year.

- 21 Acres
- Accountability Services
- Abundance of Hope Center
- Action Reaction Physical Therapy, Inc.
- Adult Family Home Council
- All Things HR
- Alyssa Burnett Adult Life Center - Seattle Children’s
- Amazon
- American Center for Mongolia Studies, Mongolia
- Anna’s Home Furnishings
- AVID - Henry M. Jackson High School
- BASTA Coalition of Washington
- Black Coffee Northwest
- Bloodworks Northwest
- Bothell High School
- Bright Horizons
- BUCK Academy
- BUCKOne
- Burke Museum of Natural History and Culture
- Camp United We Stand
- Campus Library - UW Bothell / Cascadia College Campus
- Catholic Kwandong University, South Korea
- CCUWBee Research Initiative: Native Pollinators
- City of Mill Creek
- Commercial Driver School
- Communities of Rooted Brilliance
- Delicious Delivered
- DevMatch, Co.
- Economic Alliance Snohomish County
- Edmonds Food Bank
- Edmonds School District
- Elections & Voter Registration Snohomish County
- Environmental Education and Research Center (EERC) at Saint Edward State Park
- Equinix
- Everett Gospel Mission
- EvergreenHealth
- Food Lifeline
- Foreign Language for Youth (F.L.Y.)
- Forterra - Green City Partnerships
- Friends of North Creek Forest
- Full Life Care
- Girls on the Run Snohomish County
- Global Reciprocity Partners: Ghana, India, Mexico, Tanzania
- Green Kirkland Partnership
- Gyeongsang National University, South Korea
- Harborview Medical Center
- HealthPoint
- Inside Health Institute
- Institute of Stem Cells and Regenerative Medicine (ISCRM)
- Integrity Marketing Group
- Iron Brothers Construction
COMMUNITY PARTNERS

- Ironwood Mfg
- Jamco America, Inc.
- Kenmore Middle School
- Kindred Hospice
- King County Library System, Bothell Library
- Latino Educational Training Institute (LETI)
- Libraries Love Lakes
- Licton Springs Park – Friends of Seattle's Olmsted Parks
- LifeWire
- Literacy Source
- Mercy Housing Northwest
- Meridian Park Elementary School
- Midwives’ Association of Washington State
- Moving Image Preservation of Puget Sound (MiPoPS)
- National Alliance on Mental Illness (NAMI) Eastside
- National Alliance on Mental Illness (NAMI) Seattle
- Neighborhood House
- North Creek High School
- Northshore School District
- Northshore School District Racial & Educational Justice
- Northwest Film Forum
- nuShootz
- Oceana
- Office of Social Justice Snohomish County, WA
- Outdoor Lighting Perspectives
- Pacific Northwest Research Institute (PNRI)
- Pacific Science Center
- PatCen Healthcare, Inc.
- Pontificia Universidad Católica del Perú, Peru
- Pravah, India
- Progressive Animal Welfare Society (PAWS)
- Project Girl Mentoring Program
- Providence
- Providence Institute for a Healthier Community
- Public Health - Seattle & King County
- Pusan National University, Department of Urban Planning and Engineering, South Korea
- Racial & Educational Justice - Northshore School District
- Rainier Valley Birth & Health Center
- Reckoning Trade Project
- Richmond Beach Saltwater Park
- Seattle Cancer Care Alliance
- Seattle Children's Alyssa Burnett Adult Life Center
- Seattle Children's Neonatology
- Seattle Institute of the Arts
- Seattle Municipal Archives
- Seattle ReCreative
- Shoreline Sports Foundation
- Smokey Point Behavioral Hospital
- Snohomish Conservation District
- Snohomish Health District
- Snohomish STEM
- Songaia Cohousing Community
- Sound Salmon Solutions
- South East Technological University, Ireland
- Sustainable Housing for Ageless Generations (SHAG)
- Synthesis Interests
- Tavon Learning Center
- The Energy Authority (TEA)
- The Tavon Center
- Tokyo Medical and Dental University, Japan
- United We Stand
- University of Al-Qadisiyah, Iraq
- UW Botanic Gardens
- UW Bothell Counseling
- UW Bothell Grounds and Wetlands
- UW Bothell Health and Wellness Resource Center (HaWRC)
- UW Bothell Orientation and Transition Programs
- UW Bothell School of Nursing and Health Studies
- UW Bothell Sustainability
- UW Medical Center
- UW Pacific Northwest Agricultural Safety and Health (PNASH) Center
- Warren G. Magnuson Park
- Washington Alliance for Better Schools (WABS)
- Washington State Hospital Association (WSHA)
- Washington State Employees Credit Union (WSECU)
- Washington State Parks
- Washington West African Center (WAWAC)
- Woodinville King County Library System
- YMCA of Greater Seattle
- Your Money Matters Mentoring
This report was created for readers in a virtual format. If you utilize a paper copy of this report, below are all the referenced hyperlinks.

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- About CBIT - https://www.uwb.edu/stem/about/cbit

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- How to apply for the RRF - https://www.washington.edu/research/or/royalty-research-fund-rrf

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- Donate to Connected Learning Excellence Fund - https://online.gifts.washington.edu/secure/?ifGuid=75ef2a3e-3588-40aa-bad0-0006ebcc0f75&source=UWBCEF&source_typ=3

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- CELR, *To mentor is to touch a life forever* - https://www.uwb.edu/news/january-2022/to-mentor-is-to-touch-a-life-forever

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- Global Initiatives, *From City Mouse To Country Mouse – In Italy w/ Diego Guadarrama* - https://uwbglobal.blog/from-city-mouse-to-country-mouse-in-italy-w-diego-guadarrama

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