The Office of Research welcomes you back to campus and wishes you a smooth start to the winter 2019 quarter!

UW Tacoma faculty had a productive fall 2018 quarter, as evidenced by the diverse and impactful contributions highlighted in our below quarterly Office of Research Roundup. This Roundup also provides an update on Office of Research news and events that support faculty research and scholarship in the upcoming winter 2019 quarter.

In this issue:

- Recent publications
- New research awards
- Announcing the 2018 Collaborative Publicly Engaged Scholarship Fund awardees
- Upcoming UW funding opportunities
- Upcoming UW Tacoma Office of Research workshops and events
- Recent updates from the UW Seattle Office of Research and Federal Sponsors
- New training resources

Please do not hesitate to let us know if you have suggestions about how to make the Roundup most useful!

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**Recent publications**

UW Tacoma faculty and staff published an impressive body of work during the fall 2018 quarter*. Congratulations to the following authors:

**Peer-reviewed articles**

- **Eyhab Al-Masri** and **Yan Bai** (School of Engineering and Technology), with co-author: “A fog-based digital forensics investigation framework for IoT systems” in *Proceedings of the IEEE International Conference on Smart Cloud*

- **Uba Backonja** (Nursing and Healthcare Leadership), with co-authors: “Data visualizations to support health practitioners’ provision of personalized care for patients with cancer and multiple chronic conditions: User-centered design study” in *JMIR Human Factors*

- **Paulo Barreto** (School of Engineering and Technology), with co-authors: “DAGS: Key encapsulation using dyadic GS codes” in *Journal of Mathematical Cryptology*

  with co-authors: “Faster key compression for isogeny-based cryptosystems” in *IEEE Transactions on Computers*

- **Kathy Beaudoin** (School of Education), with co-authors: “Croatian preschool teachers’ self-perceived competence in managing the challenging behaviour of children” in *Center for Educational Policy Studies Journal*

- **Sunny Cheng** (Nursing and Healthcare Leadership), with co-authors: “Immediate effects of interoceptive awareness training through Mindful Awareness in Body-oriented Therapy for women in substance use disorder treatment” in *Substance Abuse*

  with co-authors: “Psychological and autonomic correlates of emotion dysregulation among women in substance use disorder treatment” in *Substance Use & Misuse*

Martine De Cock and Anderson Nascimento (School of Engineering and Technology), with co-authors: "Detecting misogynous tweets" in *Proceedings of the CEUR Workshop*

Robin Evans-Agnew (Nursing and Healthcare Leadership), with co-authors: "Creating emancipatory dialogues about identity and health by modernizing interviews" in *Advances in Nursing Science*

with co-authors: "Federal weatherization and health education team up: Process evaluation of a new strategy to improve health equity for people with asthma and chronic obstructive pulmonary disease" in *Journal of Public Health Management and Practice*

with co-author: "Uniting action research and citizen science: Examining the opportunities for mutual benefit between two movements through a woodsmoke photovoice study" in *Action Research*

Katie Haerling (Nursing and Healthcare Leadership), with co-authors: "Assessing individual teamwork skills in entry-level nurses" in *Clinical Simulation in Nursing*

Sarah Hampson (SIAS/Politics, Philosophy, and Public Affairs): "Mothers do not make good workers: The role of work/life balance policies in reinforcing gendered stereotypes" and "Law’s promises and its limits: A reply to Cramer and McNulty" in *Global Discourse*

Michael Honey (SIAS/Social and Historical Studies): “Revisiting Martin Luther King’s last campaign and unfinished agenda” in *Nanzan Review of American Studies*

Tom Koontz (SIAS/Sciences and Mathematics), with co-author: “Working together? Synergies in government and NGO roles for community forestry in the Indian Himalayas” in *World Development*

with co-author: “Use of science in collaborative environmental management: Evidence from local watershed partnerships in the Puget Sound” in *Environmental Science & Policy*

Umit Kucuk (Milgard School of Business): “Macro-level antecedents of consumer brand hate” in *Journal of Consumer Marketing*

Eric Madfis (Social Work and Criminal Justice), with co-authors: “Harming animals and massacring humans: Characteristics of public mass and active shooters who abused animals” in *Behavioral Sciences & the Law*

Patsy Maloney (Nursing and Healthcare Leadership), with co-authors: “Relationship between nursing professional development and the American Nurses Credentialing Center’s Primary Accreditation Framework” in *The Journal of Continuing Education in Nursing*

Julie Masura (SIAS/Sciences and Mathematics), with co-authors: “Evaluating exposure of northern fur seals, Callorhinus ursinus, to microplastic pollution through fecal analysis” in *Marine Pollution Bulletin*

Benjamin Meiches (SIAS/Politics, Philosophy and Public Affairs): "Non-human humanitarians" in *Review of International Studies*

Sushil Oswal (SIAS/Culture, Arts, and Communication), with co-author: “Disability and accessibility in the workplace: Some exemplars and a research agenda for business and professional communication” in *Business and Professional Communication Quarterly*

with co-author: “Barriers to higher education for students with bipolar disorder: A critical social model perspective" in *Social Inclusion*

Katherine Peter, Zhenyu Tian, and Ed Kolodziej (Center for Urban Waters), with co-authors: “Evaluating emerging organic contaminant removal in an engineered hyporheic zone using high resolution mass spectrometry” in *Water Research*

Christopher Schell (SIAS/Sciences and Mathematics), with co-authors: “Parental habituation to human disturbance over time reduces fear of humans in coyote offspring” in *Ecology and Evolution*

Barb Toews (Social Work and Criminal Justice), with co-authors: “Impact of a nature-based intervention on incarcerated women” in *International Journal of Prisoner Health*

Kayee Yeung (School of Engineering and Technology), with co-authors: “A crowdsourced analysis to identify ab initio molecular signatures predictive of susceptibility to viral infection” and “Temporal genetic association and temporal genetic causality methods for dissecting complex networks” in *Nature Communications*

and Ling-Hong Hung (School of Engineering and Technology), and co-authors: “Integration of multiple data sources for gene network inference using genetic perturbation data” in *Proceedings of the ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics*

Diane Young and Erin Casey (Social Work and Criminal Justice): "An examination of the sufficiency of small qualitative samples" in *Social Work Research*
Book Chapters

Martine De Cock and Anderson Nascimento (School of Engineering and Technology), with co-authors: “Dictionary Extraction and Detection of Algorithmically Generated Domain Names in Passive DNS Traffic” in International Symposium on Research in Attacks, Intrusions, and Defenses (Springer)


Julie Masura (SIAS/Sciences and Mathematics), with co-authors: “Marine Pollution by Microplastics: Environmental Contamination, Biological Effects, and Research Challenges” in World Seas: An Environmental Evaluation

Anne Taufen Wessells (Urban Studies): “Politicisation of Community Development: Universities as Boundary Objects” in Politics and Conflict in Governance and Planning (Routledge)


Books and Edited Volumes

John Bair (School of Engineering and Technology): Seeking the Truth from Mobile Evidence: Basic Fundamentals, Intermediate, and Advanced Overview of Current Mobile Forensic Investigations (Elsevier)

Theda Braddock (SIAS/Sciences and Mathematics): California Environmental Law and Natural Resources Handbook (Bernan Press)

Yonn Dierwechter (Urban Studies): The Urbanization of Green Internationalism (Palgrave Macmillan)


*Note: This list comprises all known peer-reviewed publications first published, including on-line, during the fall 2018 quarter (Sept 24-Dec 16, 2018), as well as books, book chapters, and edited volumes published during the same period and reported to the UWT Library Digital Commons and/or Office of Research.

Do you have a recent publication not identified here? Let us know!

Congratulations to recipients of new research awards*!

Highlighted Award:

Wei Cheng, School of Engineering and Technology
Enhancing Mobile Security Education by Creating Eureka Experiences
National Science Foundation (NSF)

Dr. Cheng’s work responds to a critical need to train the future workforce on fundamental aspects of mobile security and advanced cyberinfrastructure in order to improve the ability to identify, prevent, and respond to emerging threats. Dr. Cheng and his team will design a variety of hands-on laboratories designed to create ‘Eureka’ ("aha!") moments about a challenging concept through Inquiry-Based Learning (IBL) activities. The primary purposes of the hands-on laboratories are: 1) to spark the interests of high school and community college students from diverse backgrounds to pursue careers in cybersecurity and mobile ecosystems (exploratory labs); 2) to prepare undergraduate and graduate students for cybersecurity careers by promoting enduring understanding of key security concepts and technologies (core labs); and 3) to introduce emerging security technologies and threats and inspire student research (advanced labs). Through these experiences, students will learn how to secure mobile devices and wireless systems, protect large scale and streaming data from mobile and other sources, ensure user privacy, and prevent intrusion. Furthermore, by engaging stakeholders in developing the Eureka Experiences, the project will increase the likelihood of wide adoption in academic and professional communities.
Other Recent Sponsored Awards:

**Joel Baker**, Center for Urban Waters  
Benthic Index of Biotic Indicators – Implementation Strategies  
*Washington State Department of Ecology / Environmental Protection Agency (EPA)*

**Wei Cheng**, School of Engineering and Technology  
Coverage, Capacity, and Resilience Enhancement in Limited Public Safety Networks  
*George Washington University / National Institute of Standards and Technology (NIST)*

**Jose Rios**, School of Education  
The Next Generation of STEM Teacher Preparation in Washington State (NextGen-WA)  
*Western Washington University / National Science Foundation (NSF)*  
Theory to Practice: Elementary STEM Teacher Preparation for Hispanics (co-PI; PI: Anita Lenges, UW College of Education)  
*Heritage University / U.S. Department of Education*

Other Recent Internal (UW) Awards:

**Michael Forman & Amos Nascimento**, SIAS/Politics, Philosophy, and Public Affairs  
(with UW Seattle co-Investigators)  
Normative Innovation, Human Rights, and Democracy: Concepts and Strategies for a New Global Agenda  
*UW Global Innovation Fund*

*Note: This list comprises all new sponsored research awards funded in fall 2018 quarter (Sept 24-Dec 16, 2018) and for which a UW Tacoma organization is specified as lead (as reported by the UW Business Intelligence portal), as well as internal (UW) awards reported to the Office of Research.*

Have you recently received an award not identified here? Let us know!

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Announcing the 2018–19 Collaborative Publicly Engaged Scholarship Fund awardees

The Office of Research is pleased to announce that seven projects were awarded funding through the Collaborative Publicly Engaged Scholarship (CPES) program, which provides small grants (up to $5,000) to support faculty in conducting meaningful, mutually beneficial scholarship with community partners. The CPES program, now in its second and last year, is funded through the UW Tacoma Strategic Initiative Fund (SIF). Proposals were reviewed by a multi-disciplinary committee of faculty, staff, and students.

This year’s recipients are below. A summary of each of their projects is available on our website, here.

**Yan Bai** and **D.C. Grant**, *School of Engineering and Technology*  
Collaborative Design of Cybersecurity Curricula for K-12 Classrooms

**Chris Beasley**, *SIAS/Social, Behavioral and Human Sciences*  
Self-Transformation through Humanities in Prison: Collaborative Scholarship between Incarcerated and UWT Students

**Margo Bergman**, *Milgard School of Business*  
Tacoma Tidelflats

**Rachel Hershberg**, *SIAS/Social, Behavioral and Human Sciences* and **Vanessa deVeritch Woodside**, *SIAS/Culture, Arts and Communication*  
Displacement, Detention, and Integration of Immigrants and Refugees in the South Sound

**Itziri Moreno Villamar**, *SIAS/Culture, Arts and Communication*  
The P’urhépecha Language Workshop
David Reyes, Nursing and Healthcare Leadership
Changing Community Food Environments through an Academic-Public Health Practice Partnership

Chris Schell, SIAS/Sciences and Mathematics
Lights, Cameras, Action: Using wildlife cameras to assess how artificial light at night (ALAN) influences mammalian communities in cities

Upcoming UW funding opportunities

**UW EarthLab Innovation Grants** – due January 30, 2019
EarthLab seeks to engage a broad group of UW researchers and diverse community partners in interdisciplinary research, scholarship, and creative activities related to our most pressing environmental challenges. Proposals for awards of $5,000 to $50,000 are open to groups representing at least two different units. More details [here](#).

**UW Population Health Initiative Pilot Research Grants** – due February 6, 2019
This program provides funding to support new interdisciplinary collaborations that seek to create a world where all people can live healthier and more fulfilling lives. Awards are up to $50,000. More details available [here](#).

**UW Royalty Research Fund (RRF)** – due March 4, 2019
The RRF program awards grants of up to $40,000 to UW faculty across the tri-campus system in order to launch new research pave the way for future external funding. This program offers one of the best opportunities for jump-starting a promising research project. More details available [here](#).

Also consider joining our **February 14th RRF Info Session** at which Professor Kate Stovel, current RRF Committee Chair, will join us to discuss best practices for successful RRF proposals.

Interested in pursuing one of the above, or any other, funding opportunities? [Contact us](#)!

Upcoming Office of Research events and workshops

Our **Winter 2019 Faculty Development Events** are full of opportunities to learn new skills, increase competitiveness in grant seeking, and connect with colleagues. We hope to see you there!

For the complete schedule of faculty development events, see [our website](#).

A few highlights from our upcoming Winter 2019 Faculty Development series (all to be held in TLB 307b):

- **Institutional Review Board (IRB) Submissions**
  - **Thurs, Jan 24th**
    - 12:30-1:30pm **Presentation**
    - 9:30-11:30am; 2-4:30pm **Private Consultations**
  - Join Bailey Bodell, UW Human Subjects Division, for an overview of IRB requirements and processes reflecting the revised “Common Rule” (active as of 1/21/2019)

- **Intermediate R: Managing Data**
  - **Thurs, Jan 31st**
    - 12:30-2pm presentation
    - 2-3:30pm extended Q&A
  - Join Chuck Lanfear, consultant with the UW Center for Social Science Computation & Research, for an introduction to managing data in the R open source statistical software environment

- **Royalty Research Fund (RRF) Info Session**
  - **Thurs, Feb 14th**
    - 12:30-1:30pm
  - Join us to gain valuable insight into the RRF proposal process and review criteria, with 'insider tips' from the UW RRF Committee Chair (and Professor of Sociology), Dr. Kate Stovel

- **Publish & Flourish: Celebrating New Books by UWT Faculty**
  - **Wed, Feb 20th**
    - 3:00-4:00pm
  - Come celebrate the impressive scholarly contributions of your UWT colleagues who have published books in the past year.
Recent updates from the UW Seattle Office of Research and Federal Sponsors

Partial government shutdown: Conducting research and submitting proposals to federal sponsors

The operations of many federal sponsors are affected by the partial shutdown. During this time, PIs should expect a lack of communications related to affected agency proposals and awards, and sponsors may temporarily stop making payments. Each agency maintains its own policies for proposal submission. National Science Foundation, for example, will continue to accept proposals in accordance with published deadlines, but proposals will not be processed and awards will not be made until normal operations resume. For more information about if and how specific federal agencies are affected by the shutdown, see this announcement.

Changes to NSF proposal requirements:

Effective January 28, 2019, NSF requires that all proposals meet the requirements outlined in the updated Proposal & Award Policies and Procedures Guide, found here.

The changes most likely to affect UW Tacoma researchers include (among others):

- The “Synergistic Activities” section of Biosketches are limited to five discrete activities (as opposed to five categories of activities, each listing multiple activities) – Proposals not following this requirement may be returned without review
- Research.gov can now be used to prepare and submit all non-collaborative proposals
- Directorates with rolling deadlines have established new restrictions on the time period after which a proposal can be re-submitted (e.g. 6 months after original submission)

New Human Subjects Division (HSD) Common Rule active January 21, 2019

A revised Common Rule – the informal name for the regulations that govern the responsibilities and requirements of Institutional Review Boards (IRBs) and researchers– will be implemented by the UW HSD on January 21, 2019. A number of changes are being rolled out incrementally as HSD prepares for this change. If you plan to submit an application to the IRB this fall quarter, please be sure to review these changes on the HSD website, here.

If you have questions about the revised Common Rule, consider participating in our January 24th IRB Submissions workshop (12:30-1:30) and 1-on-1 consultations (9:30-12:30; 2-4:30) with HSD’s Bailey Bodell.

New Training Resources

National Center for Faculty Development and Diversity (NCFDD)*

Several upcoming NCFDD webinars may be of interest to UW Tacoma faculty:

- Managing Multiple Roles: How to be a Faculty Member and an Administrator – Wed, Jan 16th (11:00am PST)
- Daily Writing for Academic Scientists and Engineers – Wed, Feb 6th (11:00am PST)
- How to Craft and Submit a Winning Book Proposal in 4 Weeks (4 week program) – Tuesdays, Mar 19th, Mar 26th, April 2nd, and April 9th
- And many more archived and upcoming webinars

*See instructions on how to access NCFDD resources through UW’s institutional membership on our website.

UW Center for Social Science Computation and Research (CSSCR) Courses

A reminder that the UW CSSCR offers a number of free introductory courses on quantitative and qualitative analysis software, including SPSS, STATA, R, Python, ArcGIS and Atlas.ti. See the CSSCR website for details.
Work with us!

Are you looking for funding opportunities, planning to submit a proposal to support your scholarship, and/or interested in talking through ideas for future research this coming quarter? Contact us! The Office of Research is here to support your work.