School of Computing at the University of Wyoming Funds 16 Faculty Awards to Advance Computing

Laramie, WY - The School of Computing at the University of Wyoming has recently announced the recipients of its Faculty Awards for the 2022-2023 academic year. The awards support research, teaching and engagement activities connected to advancing computing across the university. 34 faculty members applied for awards of up to $15,000, and 16 faculty (listed below) were selected for funding. The School of Computing is proud to have such a diverse group of faculty members who bring unique perspectives and knowledge to their teaching, research and engagement.

The School of Computing identified several criteria that proposals for Faculty Awards should meet to have priority for funding. These include alignment with university initiatives and state priorities, building new opportunities or capacity in computing, impacting student experiences and learning, advancing the school in its initial phase of development, and contributing to diversity, equity, and inclusion values.

The School of Computing congratulates all of the faculty members who have received funding for their projects and thanks them for their contributions to the advancement of computing at the University of Wyoming.

For more information about the Faculty Awards and the School of Computing at the University of Wyoming, please visit https://www.uwyo.edu/soc/initiatives/faculty-awards.html.

Faculty	Department	Title
Basile, Franco	Chemistry	Integrating R-Based Computational Tools in the Analytical Chemistry Classroom
Bridgeman, Jacquelyn	Native American and Indigenous Studies	Northern Arapaho Language and Culture Revitalization in Virtual Reality for K-12 Education on Wind River Indian Reservation
Collins, Sarah	Zoology	Computational Outreach for Wyoming GIRLS in STEM (COWGIRLS in STEM) at Sheridan College
Dale, Danny	Physics & Astronomy	Modeling Stellar Clusters Observed by the Hubble and Webb Space Telescopes
Hill, Robin	Electrical Engineering and Computer Science	Three Questions in the Philosophy of Computing

Kotthoff, Lars	Electrical Engineering and Computer Science	Laramie Robotics Club
Macy, Luke (and mentor Gong, Jian)	School of Computing	Improving Energy Efficiency of Buildings on Campus
Minear, Meredith	Psychology	Training Behavioral Scientists for the 21stCentury: Improving Digital Literacy Through Extended Reality
Saraji, Soheil	Petroleum Engineering	Applied Blockchain for Oil and Gas
Shearrer, Grace	Family and Consumer Sciences	Using the Adolescent Brain Cognition and Development Study to Generate Preliminary Analyses and Manuscripts
Sun, Qian-Quan	Zoology	Building the next-generation sequencing data analysis pipeline through the development of cloud-based data science modules and parallel computing at Teton Cluster
Wang, Liping	Civil Engineering	Large-scale energy modeling for the built environment
Xu, Chen	Wyoming Geographic Information Science Center	Acquiring Human Behavioral Data for An Epidemiological Network Model Validation
Yang, Di	Wyoming Geographic Information Science Center	Incorporating Geoinformatics with CLIMATE: Community Led Initiative to Monitor Alpine Temperature Extremes
Zhang, Xiang	Mechanical Engineering	Physics-Informed Neural Networks to Accelerate the Solving of a Large Number of Similar Solid Mechanics Problems: A Comparison with Finite Element Method
Zhou, Zeijan	Electrical Engineering and Computer Science	Automatic Digital Twin Generator for Autonomous Vehicles based on Inverse Reinforcement Learning