Curriculum Vitae

Jennings Herrera Leavell

jenningsleavell@isu.edu, (941) 228-2762

Education

2023-Present **Idaho State University, Pocatello, ID**
- Degree: Master of Science in Geology
- Advisor: Dr. Kathleen Lohse
- Research: Phosphorus biogeochemistry in a fire-affected intermittent stream system

2013-2018 **Bowdoin College, Brunswick, ME**
- Degree: Bachelor of Arts
- Advisors: Dr. Dharni Vasudevan, Dr. Vladimir Douhovnikoff
- Major: Chemistry, Environmental Concentration; Minor: Philosophy

Teaching Experience

2023-Present **Teaching Assistant, Idaho State University Geosciences Department, Pocatello, ID**
- Quaternary Global Change Lab (GEOL 4415/5515)
- Evolution of the Earth's Surface Lab (GEOL 3315)
- Fluid Earth Lab (GEOL 2204)
- The Dynamic Earth lecture support/grader (GEOL1101)

2024 **Guest Lecturer, GEOL 1101, Idaho State University Geosciences Department, Pocatello, ID**
- Developed lecture with colleague on wildfire ecology in Yellowstone National Park and our respective prescribed fire biogeochemistry thesis research topics.

2016 **Educator, Kieve-Wavus Leadership School, Nobleboro, ME**
- Led groups of students, mostly middle school-aged, in team, leadership, emotional intelligence, and outdoor skills building activities.

2015 **Teaching Assistant, Bowdoin College Biology Department, Brunswick, ME**
- Ecology and Society (BIOL 1056)

Laboratory Experience

2024 **User, Stanford Synchrotron Radiation Lightsource, Menlo Park, CA**
- Phosphorus k-edge bulk XANES at beamline 14-3, mentored by Dr. Morgan Barnes

2023-2024 **Graduate Research Assistant, Idaho State University Geosciences Department, Pocatello, ID**

- Worked as summer research assistant for NSF RII Track-2 Aquatic Intermittency Effects on Microbiomes in Streams
- Collected stream chemistry, microbiome, and hydrologic samples and data in three Idaho intermittent stream systems, as part of a multidisciplinary team.
- Trained on Lohse Lab soluble reactive phosphorus and total phosphorus quantification methods

2021-2023 **Environmental Instrument Analyst, Chemtech-Ford Laboratories, Sandy, UT**

- NELAC-accredited quantification of Aroclor PCBs, pesticides, and drinking water semivolatile organic compounds in various matrices by GC-ECD and GC-MS using EPA 8000, 600, and 500 series methods (March 2022-April 2023)
- NELAC-accredited metal quantification by ICP-MS using EPA methods 200.8 and 6020B at American West Analytical Laboratories, acquired by Chemtech-Ford in January 2022(September 2021-February 2022)
- Data analysis and management via Agilent's Masshunter software and Microsoft Access-based LIMS softwares

2018-2019 **Ecotoxicology Intern, Mote Marine Laboratory, Sarasota, FL USA**

- Extracted and assisted in quantification of Florida Red Tide (*Karenia brevis*) toxins by HPLC-MS/MS in environmental matrices.
- Lead technician on preliminary Red Tide mitigation study, directly organized and carried out testing of various agents for Red Tide mitigation capacity. (December 2018- May 2019)
- Technician for Florida Healthy Beaches Red Tide monitoring toxin analysis and Mote's Red Tide Aerosol Study
- Wrote R script to QA/QC weather data for Aerosol Study

2013-2017 **Student Researcher, Douhovnikoff Ecological Genetics Lab, Bowdoin College, Brunswick, ME**

- As lab assistant, learned to extract DNA from tissue and amplify it by PCR for microsatellite analysis (Fall 2013)
- Student researcher through a Bowdoin College Biological Sciences Fellowship to conduct ecological genetics research on two *Salix* species in specific environmental contexts (Summers 2014 and 2015)

Conference Poster Presentation

2024 **Graduate student poster, Annual Meeting of the American Geophysical Union**

- Title: Linking Sediment Transport and Phosphorus Biogeochemistry in a Fire-affected Montane Intermittent Stream System

2015 **Undergraduate student poster, Annual Meeting of the Society of Wetlands Scientists**
- Title: The Unidirectional Diversity Hypothesis in two *Salix* (willow) species

Outreach

2023-2024 **Guest Lecturer, Pocatello High School**
- Developed lecture with colleague for two PHS AP Biology sections.

2023 **Fort Hall STEM Night**
- Represented ISU Geosciences Department, lead outreach activities at Fort Hall Indian Reservation's Shoshone-Bannock Jr./Sr. High Schools's STEM night.

Awards, Grants, and Honors

2024 **National Science Foundation/Geological Society of America Graduate Student Geoscience Grant** ($2,500)

Thomas R. Sherwood Scholarship ($4,426)

Center for Ecology Research and Education Grant ($4,040)

Jeff Geslin Research Grant ($1,500)

National Science Foundation/Geological Society of America Graduate Student Geoscience Travel Grant ($500)

ISU Biology Graduate Student Association Fall 2024 Travel Grant ($600)

American Fisheries Society Portneuf Chapter Fall Travel Grant ($500)

Spring 2024 ISU Graduate School Travel Grant ($300)

FAA Remote Pilot Certification

2018 **Danica Loucks Service Award, Bowdoin College**

2014-2015 **Fellowship in the Life Sciences, Bowdoin College Biology Department**

2013 **Eagle Scout, Boy Scouts of America, Troop 142, Racine, WI**