



*Curriculum Vitae*

**Jennings Herrera Leavell**

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**Education**

- 2023-Present**                    **Idaho State University, Pocatello, ID**
- Master of Science in Geology (In progress)
  - Advisor: Dr. Kathleen Lohse
  - Research: Phosphorus biogeochemistry in a fire-affected intermittent stream system
- 2013-2018**                    **Bowdoin College, Brunswick, ME**
- Bachelor of Arts
  - Advisors: Dr. Dharni Vasudevan, Dr. Vladimir Douhovnikoff
  - Major: Chemistry, Environmental Concentration; Minor: Philosophy

**Teaching Experience**

- 2023-Present**                    **Graduate Teaching Assistant, Idaho State University Geosciences Department, Pocatello, ID**
- Fall 2023: Fluid Earth lab (GEOL 2204), GEOL1101 lecture support/grader
  - Spring 2024: Evolution of the Earth's Surface lab (GEOL 3315), GEOL 1101 lecture support/grader
- 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**
- Spring 2015: Ecology and Society (BIOL 1056)

**Laboratory Experience**

- 2023**                                **Graduate Research Assistant, Idaho State University Geosciences Department, Pocatello, ID**
- Worked for NSF RII Track-2 Aquatic Intermittency Effects on Microbiomes in Streams (May-August)
  - As part of a multidisciplinary team, collected stream chemistry, microbiome, and hydrologic samples and data in three Idaho intermittent stream systems.
  - 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 organizing and carrying 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 clean 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

**2015**

**Undergraduate student poster, Annual Meeting of the Society of Wetlands Scientists**

- Title: The Unidirectional Diversity Hypothesis in two *Salix* (willow) species

## Outreach

**2023**

**Fort Hall STEM Night**

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

**2023**

**Guest Lecturer, Pocatello High School**

- Organized co-lecture with colleague for two PHS AP Biology sections.

## Awards, Grants, and Honors

**2024**

**Spring 2024 ISU Graduate School Travel Grant Recipient**



- 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**