

# Kimberley M. Preston

kimberley.preston@oregonstate.edu

## CURRENT POSITION

August 2019-present Researcher  
STEM Research Center  
Oregon State University  
Corvallis, Oregon

## EDUCATION

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March 2019 Oregon State University, Corvallis, OR  
MS. Environmental Sciences, concentration Environmental Education  
Thesis: Exploring How Institutionalized Scuba Diving Training and the  
Diver Experience Influences the Diver's Conceptualization of the Marine  
Environment  
GPA: 3.94

Sept 2015 Oregon State University, Corvallis, OR  
Honors B.S. Fisheries and Wildlife Sciences  
Cumulative GPA: 3.64, *Cum Laude*

Sept 2015 Oregon State University, Corvallis, OR  
Honors B.A. International Studies  
Undergraduate Honors Thesis: Overcoming Barriers to Effective  
Ecological Communication: A Malagasy Case Study  
Cumulative GPA: 3.64, *Cum Laude*

## RESEARCH AND FIELDWORK

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2021-present Researcher, *Authentic Research through Collaborative Learning  
(ARC-Learn): Undergraduate Research Experiences in Data Rich Arctic  
Science*. National Science Foundation (NSF EHR-Polar DCL #2110854).  
PIs: Julie Risien (Oregon State University), Laurie Juranek (Oregon State  
University), & Miguel Goni (Oregon State University). (\$587,463.00;  
2021-2024)

2020-present Researcher, *Developing Integrative Manufacturing and Production  
Engineering Curricula that Leverage Data Science*. National Science  
Foundation (NSF DUE #1935646). PIs: Sagar Kamarthi (Northeastern  
University), Jacqueline Isaacs (Northeastern University), Kemi Jona  
(Northeastern University), Xiaoning Jin (Northeastern University), &  
Mohsen Moghaddam (Northeastern University). (\$1,999,927; 2019-2022).

2019-present Researcher, *The Circuit: A Platform for Increasing Access to, Deepening  
and Researching Patterns of Family and Adult Participation in Informal  
Science*. National Science Foundation (NSF DRL #1906998). PIs: Martin  
Storksdieck (Oregon State University), Joe Heimlich (COSI Columbus  
Center for Research and Evaluation), Darlene Cavalier (SciStarter), Ben  
Wiehe (Massachusetts Institute of Technology Museum), & Christopher

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- Nelson (Association of Science and Technology Centers). (\$1,456,337; 2019-2023).
- 2019-present      Researcher, *Research Synthesis: Examining the Role of Authenticity in Informal Science Learning*. National Science Foundation (NSF DRL #1906889). PIs: James Kisiel (California State University Long Beach), Shawn Rowe (Oregon State University), & Martin Storksdieck. (\$249,989; 2019-2022).
- 2019-2021      Researcher, *Analytics-Driven Accessible Pathways To Impacts-Validated Education (ADAPTIVE)*. National Science Foundation (NSF Convergence Accelerator RAISE #1936656). PIs: Katy Borner (Indiana University), Ariel Anbar (Arizona State University), Kemi Jona (Northeastern University), & Martin Storksdieck (Oregon State University). (\$995,000; 2019-2021).
- 2019-present      Researcher, *Revealing Systemic Impacts of a 12-year Statewide Science Field Trip Program*. National Science Foundation (NSF DRL #1811452). PIs: Leigh Peake (Gulf of Maine Research Institute), James Hammerman (TERC), Kelly Riedinger (Oregon State University) & Martin Storksdieck (Oregon State University). (\$1,333,239; 2018-2022).
- 2019-2021      Researcher, *STEM Matters: Investigating the Confluence of visitor and Institutional Agendas*. National Science Foundation (NSF DRL # 162729). PIs: John Fraser (New Knowledge Organization), Joe Heimlich (Lifelong Learning Group), Martin Storksdieck (Oregon State University). (\$1,576,685; 2016-2020).
- 2019-2020      Researcher, *Explorer At Large Pilot Implementation* Schott Foundation. PIs: Josh Berstein (Little Yud Adventures Inc.), Annalies Corbin (PAST Foundation), Kelly Riedinger (Oregon State University), & Martin Storksdieck (Oregon State University). (2019-2020).
- 2019      Researcher, *STEM Hubs Evaluation*  
Oregon Dept of Education
- 2017-2019      Graduate Student Researcher, Environmental Sciences Program  
Oregon State University, Corvallis OR  
Supervisor: SueAnn Bottoms, PhD
- 2017-2018      Research Assistant, College of Agricultural Sciences  
Oregon State University, Corvallis OR  
Supervisor: Susan Rowe, PhD
- Jan-Mar 2014      Field Studies Volunteer, Dept of Fisheries and Wildlife

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Oregon State University, Corvallis OR  
Supervisor: Doug Reese, PhD

Jan-Mar 2014 Residence Hall Academic Success Intern (Data Entry/Analysis),  
University Housing and Dining Services, Oregon State University,  
Corvallis, OR  
Supervisor: Leigha Greiss

Sept-Dec 2013 Capstone Research, Biodiversity Natural Resource Management Program  
School for International Training, Madagascar  
Supervisor: Jim Hansen

March 2012 Fish Survey Volunteer, Dept of Fisheries and Wildlife  
Oregon State University, Corvallis OR  
Supervisor: Nancy Allen

Summer months 2007-2010 Habitat Restoration Volunteer, Science Conservation Leadership Program  
Santa Barbara Zoological Garden, Santa Barbara, CA  
Supervisor: Piper Presley

## PUBLICATIONS AND REPORTS

- 2020 **Preston, K.**, Riedinger, K., & Storksdieck, M. (2020). Explorer At Large: Pilot Implementation in Ohio: Evaluation Report 2019-2020 [Technical Report]. Oregon State University. <http://doi.org/10.5399/osu/1146>
- 2019 Staus, N., **Preston, K.**, Keys, B., & Storksdieck, M. (2019). Taking Stock of Oregon STEM Hubs: Accomplishments and Challenges: An Evaluation Report Prepared for the Oregon Department of Education. Oregon State University. <https://doi.org/10.5399/osu/1123>

## CONTRIBUTED TALKS, WORKSHOPS, AND POSTERS

- Sept 2022 Kisiel, J., Preston, K., and Storksdieck, M. (2022, Sept 10-15). Does the Real Thing Matter? Making Sense of Authenticity in Informal Science Learning. [Panelist session]. Association of Science and Technology Centers Conference, Pittsburg, PA.
- July 2021 **Preston, K.** and Dickes, A. (2021, July 7-30). *Revealing Impacts: How does one long-term, statewide field trip program influence a community's learning ecosystem?* [Conference presentation]. Connected Learning Summit, Virtual.
- Aug 2018 Talamantes, A., **Preston, K.** RCRVs, Hydrothermal Vents and Volcanoes. Science and Math Investigative Learning Experiences Summer 2018 Workshop, Corvallis, OR.

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- May 2018            **Preston, K.** *How Do Scuba Dive Students Make Meaning of their Scuba Dive Experience?* Poster presented at the 2019 Annual Environmental Joint Campus Conference, Corvallis, OR.
- Feb 2017            Martin, K., Chan, S., Siemens, T., Moen, N., **Preston, K.** Identification Prevention, and Management of New Zealand Mudsnails (*Potamopyrgus antipodarum*). Presentation at the 2017 Oregon Chapter of the American Fisheries Society 53<sup>rd</sup> Annual Meeting, Bend, OR.

### **COURSES, CONFERENCES, AND SEMINARS**

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- Nov 2018            Participant. Fundamentals of NVivo 12 for Windows, QSR International, Online Course.
- Oct 2018            Attendee. Creating Equitable and Culturally Inclusive Environments. Center for Teaching and Learning, Oregon State University, Corvallis, OR.
- Sept-Dec 2018      Attendee. Teaching Methods in Fisheries and Wildlife Seminar. Dept of Fisheries and Wildlife Sciences, Oregon State University, Corvallis, OR.
- Feb 2016            Participant. Milford Microalgal Culture Workshop, NOAA Fisheries Northeast Fisheries Science Center, Milford, CT.
- Nov 2015            Participant. Algae Testbed Public-Private Partnership Large-Scale Algal Cultivation, Harvesting and Downstream Processing Workshop, Arizona State University, Mesa, AZ.
- Feb 2013            Attendee. 30<sup>th</sup> Annual Public Interest in Environmental Law Conference, University of Oregon, Eugene, OR.
- Feb 2012            Attendee. 29<sup>th</sup> Annual Public Interest in Environmental Law Conference, University of Oregon, Eugene, OR.

### **OUTREACH AND EVENT COORDINATION**

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- Oct 2017-Sept 2018    Coordinator. Public and private events (approx. 10 per quarter; 5-50 attendees) for Oregon State University Craft Center, Corvallis, OR.
- April 2016            Educator. Marine Science Day (approx. 300 attendees), Hatfield Marine Science Center, Newport, OR.
- Sept 2016-Oct 2017    Coordinator. Visiting scholar social events (approx. 1 per quarter, 5-50 attendees) for Oregon State University Office of International Services, Corvallis, OR.

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Aug 2012-June 2013 Resident Assistant. Residence Hall events (approx. 2 per quarter, 10-300 attendees) for Oregon State University McNary Residence Hall, Corvallis, OR.

June 2007-June 2010 Educator. Science education interpretive booths (approx. 1 per week, 25-250 visitors) for Santa Barbara Zoological Gardens, Santa Barbara, CA.

## **TEACHING EXPERIENCE**

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Sept 2018-Mar 2019 Graduate Teaching Assistant. Principles of Conservation in Fisheries and Wildlife (approx. 40 students per section, 2 sections) for Oregon State University's Dept of Fisheries and Wildlife, Ecampus.

July 2016 Guest Lab Instructor. Aquaculture 500-level course (approx. 15 students per section, 1 section) for Oregon State University's Dept of Fisheries and Wildlife, Newport, OR.

June 2014-Aug 2014 Teaching Aid. French 11X classes (approx. 25 students per section, 3 sections) for Oregon State University's School of Language, Culture, and Society, Corvallis, OR.

## **AFFILIATIONS**

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2019- Member. Association for Environmental & Outdoor Education (AEOE).

2019- Member. North American Association for Environmental Education (NAAEE).

2018-2020 Member. 500-Women Scientists, Corvallis, OR.

2018-2019 Member. LastDamStraw initiative, Associated Students of Oregon State University, Corvallis, OR.

2017- 2018 Secretary. Free Choice Learning Lab, Oregon State University, Corvallis, OR.

## **SKILLS**

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Language: Intermediate French (speaking, reading, writing)

General Computer: Microsoft Office Suite Programs, Adobe Pro, Photoshop

Data Analysis Software: SPSS, Dedoose, NVivo