**CURRENT POSITION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Aug 2019-present Researcher

STEM Research Center

Oregon State University

Corvallis, Oregon

**EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

March 2019 Oregon State University, Corvallis, OR

M.S. 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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2024-present Evaluator, *The Lucy Student Pipeline Accelerator and Competency Enabler (L’SPACE) Evaluation.* NASA Discovery Mission.

2024-present Evaluator, *Oregon Department of Education Well-Rounded Access Program (WRAP) Evaluation.* US Department of Education. ($9,800,000; 2022-2025).

2021-present Lead 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 Evaluator, *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 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 Evaluator, *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

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 Habitat Restoration Volunteer, Science Conservation Leadership Program

2007-2010 Santa Barbara Zoological Garden, Santa Barbara, CA

Supervisor: Piper Presley

**PUBLICATIONS AND REPORTS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2022 **Preston, K.**, Bottoms, S., & Harte, M. (2022). Immersive reflections: The new diver’s changing conceptualization of the marine environment. Journal of Ecotourism, 1–19. <https://doi.org/10.1080/14724049.2022.2126488>

2022 **Preston, K**., Risien, J., & O’Connell, K. (2022). Authentic Research through Collaborative Learning (ARC-Learn): Undergraduate Research Experiences in Data Rich Arctic Science Formative Evaluation Report. The STEM Research Center at Oregon State University. <https://doi.org/10.5399/osu/1156>

2022 Fischer, H.A., **Preston, K.**, Staus, N., & Storksdieck, M. (2022). Course Assessment for Skill Transfer: A Framework for Evaluating Skill Transfer in Online Courses. *Frontiers in Education*, 7. <https://doi.org/10.3389/feduc.2022.960430>

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Nov 2023 **Preston, K.**, Staus, N., Risien, J., Brown, R., Juranek, L., & Goni, M. (2023). *Understanding the Student Experience in & Reflecting on Program Design Implications of a Long-Term, Low-Intensity Polar Science Undergraduate Research Experience Aimed at Broadening Participation in STEM*. [Poster Presentation]. Transforming STEM Higher Education Conference, American Association of Colleges and Universities. Arlington, VA.

Feb 2023 Kisiel, J., **Preston, K.**, Westervelt, K., and Storksdieck, M. (2023, Feb 27). Does the Real Thing Matter? Making Sense of Authenticity in Informal Science Learning. [Practitioner Workshop]. Columbia Memorial Space Center, Downey, California.

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.

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 53rd Annual Meeting, Bend, OR.

**COURSES, CONFERENCES, AND SEMINARS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Feb 2023-present Participant. Potomac Valley Master Naturalist Program.

Nov 2018 Participant. Fundamentals of NVivo 12 for Windows, QSR International, Online Course.

Oct 2018 Participant. Creating Equitable and Culturally Inclusive Environments. Center for Teaching and Learning, Oregon State University, Corvallis, OR.

Sept-Dec 2018 Participant. 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. 30th Annual Public Interest in Environmental Law Conference, University of Oregon, Eugene, OR.

Feb 2012 Attendee. 29th Annual Public Interest in Environmental Law Conference, University of Oregon, Eugene, OR.

**OUTREACH AND EVENT COORDINATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Oct 2017-Sept 2018 Coordinator. Public and private events (approx. 10 per quarter; 5-500 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.

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2019-Present Member. Potomac Valley Audubon Society (PVAS).

2019-Present Member. Association for Environmental & Outdoor Education

(AEOE).

2019-Present 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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Language: Intermediate French (speaking, reading, writing)

General Computer: Microsoft Office Suite Programs, Adobe Pro, Google Applications, Zoom

Specialty Data Analysis Software: SPSS, Dedoose, NVivo