

RYAN OESTE

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PROFESSIONAL SUMMARY

- Four years of laboratory experience with geologic and biologic materials with an emphasis on isotope geochemistry, microscopy, and ancient climates
- Experienced educator and mentor to a wide range of backgrounds
- Background in science communication using illustration and graphical displays to convey scientific concepts

EDUCATIONAL HISTORY

University of Alaska Fairbanks, AK

Doctor of Philosophy, Earth System Science, Present

Dissertation: *Paleoclimate of the late Pleistocene and Holocene Bering Sea shelf*

Methods: Sediment coring and subbottom profiling on board the R/V Sikuliaq, ^{14}C dating, stable isotopes, and categorical data analysis of diatom populations

Iowa State University Ames, IA

Master of Science, Geology, 2023

Thesis: *Marine isotope stage 4 changes in hydroclimate of southern Portugal*

Methods: Speleothem trace elements abundances, stable isotopic analysis, U/Th dating, fabric analysis, and environmental monitoring in Portugal

University of Illinois Urbana-Champaign, IL

Bachelor of Science in Liberal Arts and Science, Geology, 2021

Thesis: *Preliminary assessment of lagoon-dwelling foraminifera on Kiritimati as paleoclimate indicators*

Methods: Foraminifera stable isotopic analysis, stratigraphic logging, and bulk ^{14}C dating

College of DuPage Glen Ellen, IL

Associates of Science, 2019

WORK EXPERIENCE

Stable Isotope Paleo Environmental Research Group

May 2023-July 2023

Laboratory Technician

- Dissected and prepared biologic specimens for stable isotope analysis
- Performed microscopic imaging and photo compilation of biologic and geologic samples

Geologic and Atmospheric Science Department, Iowa State University

August 2022-May 2023

Teaching Assistant

Geology 100: How the Earth Works

Spring 2023 & Spring 2022

- Helped students develop and conduct field-based hydrologic research projects
- Taught two introductory geology lab sessions of ~20 non-STEM students

Geology 201: Introduction to Geology for Engineers and Environmental Scientists

Fall 2022 & Fall 2021

- Promoted to Lab Coordinator for Fall 2022 semester
- Directed five teaching assistants through instructional materials and lab safety procedures
- Clarified course objectives and graded assignments
- Collaborated writing syllabus and lessons with the primary instructor for ~150 undergraduate students

Geology Department, University of Illinois Urbana-Champaign

December 2019-May 2020

Paleoclimatology Undergraduate Research Assistant

- Assisted PhD candidate with petrographic microscopy
- Made smear slides from sieved lake sediments for analysis
- Created scanning electron microscope photos for use in PhD dissertation

The Wheel Thing, LaGrange Park, IL

August 2017-August 2020

Mechanic

- Repaired and serviced cycling equipment using precision and specialized tools
- Fabrication of replacement mechanical parts no longer serviceable
- Performed safety and quality assessments on equipment

LEADERSHIP AND SERVICE EXPERIENCE

Diversity, Equity, and Inclusion Committee, Iowa State University

September 2021-May 2023

Board Member, Geologic and Atmospheric Science Department

- Graduate student representative for the committee
- Helped develop a department (~200 people) climate survey using statistical research based practices
- Presented results and findings at the departmental seminar, promoted discourse on microaggressions

Geology Graduate Student Organization, Iowa State University

August 2022-May 2023

President

- Directed and organized meetings, outreach through *ISU 4U* and *Science Olympiad*, fundraising, and outings

Geology Graduate Student Organization, Iowa State University

August 2021-May 2022

Vice President

- Helped organize outings and outreach through the *Science Bound* program
- Provided graduate school mentoring through the *Earth, Wind, and Fire Learning Community*

Geology Club, University of Illinois Urbana-Champaign

August 2020-August 2021

Vice President

- Assisted in fundraising, planning hiking trips, and outreach events in a virtual environment

Geology Ambassador, University of Illinois Urbana-Champaign

June 2020-August 2021

- Representative of the Geology Department to prospective students, alums, and guests
- Met with heads of the department as a representative of the undergraduates

SKILLS

Data Analysis and Data Visualization: Python, R, MATLAB

Other Software: Digital and Film Photography, Adobe Illustrator and Photoshop, Microsoft Office, Google Workspace, GitHub, Slack, ZOOM, ArcGIS, Geochemist's Workbench, Audacity, AutoCAD, ImageJ

HONORS AND GRANTS

- Geology Department Outstanding Contributions Award, Iowa State University (\$300) **2021 & 2022**
- Geology Department Outstanding Teaching Assistant Award, Iowa State University (\$350) **2022**
- Bowen Grad Student Fellowship, Iowa State University (\$2000, yearly) **August 2020-May 2022**
- Graduated with Highest Honors, University of Illinois **2021**
- Graduated with Honors, College of DuPage **2019**
- Double Silver Palmed Eagle Scout **2014**

PROFESSIONAL ORGANIZATIONS AND CERTIFICATIONS

- Geological Society of America

Member ID: 9312939

PRESENTATIONS

Oeste, R., Wanamaker, A.D., Thatcher, D., Denniston, R., Graham, A.M., Polyak, V., Regala F.T., Asmerom, Y. (2023). MIS 4 changes in hydroclimate of southern Portugal, GSA North Central Meeting. Grand Rapids, Michigan. Poster.

Denniston, R., Ummenhofer, C. M., Cresswell-Clay, N., Amber, G., Asmerom, Y., Polyak, V., Wanamaker, A. D., Thatcher, D., **Oeste, R.** (2023) Expression of millennial climate events in the central United States during the last glacial period. EGU General Assembly, Vienna, Austria.

Oeste, R., Wanamaker, A.D., Thatcher, D., Denniston, R., Graham, A.M., Polyak, V., Regala F.T., Asmerom, Y. (2023). MIS 4 changes in hydroclimate of southern Portugal, Iowa State University, Geology Graduate Student Symposium. Ames, Iowa.

Conroy, J. L., Wyman, D. A., Osburn, M. R., Atwood, A. R. Higley, M. C., **Oeste, R.** (2022) Common era hydroclimate variability in the central tropical Pacific. AGU. Chicago, Illinois.

Oeste, R., Wanamaker, A.D., Thatcher, D., Denniston, A.M., Polyak, V., Regala F.T., Asmerom, Y. (2022). MIS 4 changes in hydroclimate of southern Portugal, Past Global Changes (PAGES) Open Science Meeting. Virtual.

Oeste, R., Wanamaker, A.D., Thatcher, D., Denniston, A.M., Polyak, V., Regala F.T., Asmerom, Y. (2022). MIS 4 changes in hydroclimate of southern Portugal, Iowa State University Geology Graduate Student Symposium. Ames, Iowa.

Oeste, R., Conroy, J. L. (2021) Preliminary assessment of the benthic foraminifera of the Kiritimati lagoon as paleoclimate indicators. University of Illinois School of Earth, Society & Environment Research Review. Poster. Urbana, Illinois.