RyAN OESTE

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**Professional summary**

* 3 years of laboratory experience with geologic and biologic materials with an emphasis on isotope geochemistry and ancient climates
* 3 years of field geology research
* Background in science communication using illustration and graphical displays to convey scientific concepts

**ACADEMIC RESEARCH  
Master’s Thesis:**

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

* Paleoclimate study using cave deposits (speleothems) to understand shifts in rainfall amounts (hydroclimate) during the last glacial period, spanning 60 to 70 thousand years ago
* Methods of research include trace elements abundances, stable isotopic analysis, radiometric dating (U/Th), fabric analysis in speleothems, and environmental monitoring in Portugal
* In-progress towards publication

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

* Paleoclimate study using foraminifera to assess changes in El Niño Southern Oscillation during the Holocene
* Methods of research involved taxa identification, stratigraphic logging, stable isotopic analysis, and 14C dating
* Culminated in poster presentation and written thesis

**EDUCATION**

Iowa State University (ISU), Ames, IA August 2021-May 2022

Master of Science, M.S., Geology

University of Illinois (UIUC), Urbana-Champagne, IL August 2019-July 2021

Bachelor of Science in Liberal Arts and Science, B.S.L.A.S., Geology

**College of DuPage (COD), Glen Ellen, IL August 2017-July 2019**

Associates of Science, A.S.

**Work Experience**

**Geologic and Atmospheric Science Department, ISU, Ames, IA August 2022-December 2022**

**Introduction to Geology for Engineers and Environmental Scientists Lab Coordinator**

* Directed 5 teaching assistants through instructional materials and lab safety procedures
* Clarified course objectives and graded assignments
* Collaborated writing syllabi and lessons for ~150 undergraduate students
* Promoted from teaching assistant position from August 2021 - December 2021

**Geologic and Atmospheric Science Department, ISU, Ames, IA August 2020-July 2021**

**Geology 100 How the Earth Works Teaching Assistant**

* Helped develop 4 hydrogeologic testing research projects
* Taught 2 introductory geology lab sessions of ~20 non-STEM students

**Geology Department, University of Illinois, Urbana-Champaign, IL 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 PhD dissertation

**The Wheel Thing, LaGrange Park, IL August 2017-August 2020 Mechanic**

* Repaired and serviced equipment using precision and specialized tools
* Performed safety and quality assessments on equipment
* Conveyed difficult mechanical problems to customers

**LEADERSHIP AND SERVICE EXPERIENCE**

**Diversity, Equity, and Inclusion Committee**, **ISU, Ames, IA** **September** **2021-May 2023**

**Board Member**, **Geologic and Atmospheric Science Department**

* Representative of the graduate students for the committee
* Helped develop a departmental (~200 people) climate survey through qualitative statistical research
* Presented results and findings at the departmental seminar, promoting discourse on microaggressions

**Geology Graduate Student Organization, ISU, Ames, IA August 2022-May 2023**

**President**

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

**Geology Graduate Student Organization, ISU, Ames, IA August 2021-May 2022**

**Vice President**

* Helped organize outings and outreach through the *Science Bound* program

**Geology Club, UIUC, Urbana-Champaign, IL August 2020-August 2021**

**Vice President**

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

**Geology Ambassador, UIUC, Urbana-Champaign, IL June 2020-August 2021**

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

**SKILLS**

**Data Analysis and Data Visualization**: Python, R, MATLAB

**Miscellaneous:** Photography, Adobe Illustrator, Photoshop, Microsoft Office, Google Workspace, GitHub, Slack, ZOOM, ArcGIS, Geochemist’s Workbench, Audacity

**HONORS AND GRANTS**

* Geology Department Outstanding Contributions Award, Iowa State University ($300) **2021**
* 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**

* Geological Society of America