

# Jacob P. Warner

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## **RESEARCH INTERESTS**

Human-Environment Interactions, Hydroclimate, Paleoclimate Reconstruction, Climate Change, El Niño-Southern Oscillation (ENSO), Sclerochronology, Stable Isotope Analysis, Trace Element Analysis, Remote Sensing, Unpiloted Aerial Vehicles (UAVs), Geographic Information Systems (GIS), Environmental Mapping, Water Quality, Prehistoric Archaeology, Andean Archaeology

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## **EDUCATION**

**Ph.D. in Geography** awarded December 2021 – Louisiana State University.

Title: “Reconstructing the El Niño-Southern Oscillation (ENSO) in Northern Peru: Perspectives from *Donax obesulus* Geochemistry and Archaeomalacology”

Dr. Kristine L. DeLong – Co-chair

Dr. David Chicoine – Co-chair

**M.A. in Anthropology** awarded August 2015 – Louisiana State University.

Title: “Production, Discard, and Urban Life at the Early Horizon Center of Caylán, Coastal Peru”

**B.A. in Anthropology** awarded December 2010 – Louisiana State University.

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## **ACADEMIC APPOINTMENTS**

[Assistant Professor, Department of Geography and Planning, Appalachian State University,](#)

August 2025-present.

[Assistant Professor, Department of Geography and Environmental Sustainability, State University of New York \(SUNY\), Oneonta,](#) September 2022-August 2025.

[Postdoctoral Researcher, Schubert Lab, University of Louisiana at Lafayette School of Geosciences,](#) January 2022–July 2022

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## **TEACHING EXPERIENCE**

**Assistant Professor, Appalachian State University of Geography and Planning, August 2025 – present.**

Teaching and course development on a 3:3 load for Appalachian State University. Courses include GHY 1011: Global Climate Change, GHY 3100: Weather and Climate, and GHY 5000: Research Themes in Geography (graduate seminar course).

**Assistant Professor, SUNY Oneonta Department of Geography and Environmental Sustainability, September 2022 – August 2025.**

Teaching and developing multiple courses on a 3:4 load for SUNY Oneonta. I taught ENSS 1010: Introduction to Sustainability, ENSS/GEOG 2100: Environmental Issues, GEOG 2039: Digital Earth, ENSS 3050: Environmental Monitoring, GEOG 3206: Remote Sensing of Environments, GEOG 2303 Geography of Latin America, and DRGN 1000: Unpacking Collapse: Lessons for a Sustainable Future (a freshman seminar). I also mentored 6 undergraduate students in independent study hours.

**Instructor, LSU Department of Geography and Anthropology, Spring 2021**

Administration and grading of special topics online course GEOG 4997 – Managing for a changing climate. Based on a course created for open use by the University of Oklahoma in collaboration with the South Central Climate Adaptation Science Center (SCCASC).

**Instructor, LSU Department of Geography and Anthropology, Fall 2017-Spring 2018**

Syllabus design, lecturing, material creation (lectures, quizzes, writing assignments, exams), testing, and grading for ANTH 1300: Introduction to Sociocultural Anthropology and ANTH 2050: World Archaeology.

**Guest Lecturer, LSU Department of Geography and Anthropology, August 2015 – December 2022**

Lectured as a guest speaker/substitute instructor for various courses throughout the department. I lectured for classes titled Quaternary Paleoecology, Physical Geography of the Atmosphere, Ice Age Environments, Archaeology of South America, and Human Geography of the Americas and Europe. I also lectured for a college-wide introductory course.

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## **PROFESSIONAL EXPERIENCE**

**Research Assistant, Paleoclimate and Anthropological Studies (PAST) Laboratory LSU, August 2018–January 2022**

Duties: Supervised undergraduate and graduate lab workers. I assisted with general lab and various instrument maintenance. Conducted research related to my dissertation and assisted others in their work. I devised novel methods for subsampling organically precipitated carbonate and analyzing subsequent materials via ICP-OES.

Supervisor: Dr. Kristine L. DeLong

**Graduate Assistant, South Central Climate Adaptation Science Center LSU**, January 2015–August 2018

Duties: Examined, interpreted, and digitized records from 19<sup>th</sup> century US army forts in the US Southeast, specifically the daily notes on weather from post surgeons. Conducted research, communication, and community outreach related to various topics as needed. Assisted in and designed climate training materials for a tribal groups program and an underrepresented minorities undergraduate summer internship. Built presentations, gathered materials, and facilitated activities. I assisted in Laboratory and field research associated with LSU SCCASC projects.

Supervisor: Dr. Kristine L. DeLong

**Archaeological Aide, United States Department of Agriculture – Forestry Service**, May–July 2013

Duties: Surface survey and test pit excavations in the Kisatchie District of the Kisatchie National Forest in central Louisiana. Additionally, helped clean and catalog artifacts recovered in the field, participated in the mapping and delimitation by test pit of a looted site according to Louisiana legal guidelines, and participated in the maintenance of field equipment.

Supervisor: Geoffrey A. Lehmann

**Field and Laboratory Archaeologist, multiple projects**, August 2011–Present

Duties: Surface survey, mapping, test pit excavations, large area excavations, artifact cleaning and cataloging, shellfish species identification and quantification, artifact photography, excavation photography, meal preparation, project organization, trip planning, and management. I am currently acting primarily as an invertebrate zooarchaeologist and consulting paleoclimatologist.

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## **PEER-REVIEWED ARTICLES**

Chijun Sun, Timothy Shanahan, Shaoneng He, Adriana Bailey, Jesse Nusbaumer, Jun Hu, Aubrey Hillman, Erika Ornouski, **Jacob Warner**, and Kristine DeLong (2024). <sup>17</sup>O-excess in tropical cyclones reflects local rain re-evaporation more than moisture source conditions. Journal of Geophysical Research-Atmospheres. <https://doi.org/10.1029/2023JD039361>

**Jacob Warner** and Aleksa Alaica (2022). Contextualizing the Influence of Climate and Culture on Bivalve Populations: *Donax obesulus* Malacology from the North Coast of Peru. Journal of Island and Coastal Archaeology 17. <https://doi.org/10.1080/15564894.2021.1991055>

**Jacob Warner**, Kristine L. DeLong, David Chicoine, Kaustubh Thirumalai, C. Fred T. Andrus. (2022) Investigating the influence of temperature and seawater  $\delta^{18}\text{O}$  on *Donax obesulus* (Reeve, 1854) shell  $\delta^{18}\text{O}$ . Chemical Geology 588, 120638. <https://doi.org/10.1016/j.chemgeo.2021.120638>

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#### **BOOK CHAPTERS IN EDITED VOLUMES**

**Jacob Warner** and Elizabeth Cruzado. Preindustrial Agriculture. In “The Encyclopedia of Human Geography,” edited by Barney Warf. Springer Publishing. [https://doi.org/10.1007/978-3-031-25900-5\\_44-1](https://doi.org/10.1007/978-3-031-25900-5_44-1)

**Jacob Warner**. Environmental Determinism. In “The Encyclopedia of Human Geography,” edited by Barney Warf. Springer Publishing. [https://doi.org/10.1007/978-3-031-25900-5\\_123-1](https://doi.org/10.1007/978-3-031-25900-5_123-1)

David Chicoine and **Jacob Warner** (2022). Gathering Salinar Houses: Platforms-as-Assemblages in Ancient Coastal Peru. In “From House Societies to States: Early Political Organization, from Antiquity to the Middle Ages.” Edited by Juan Carlos Moreno García. Oxbow Books, Oxford.

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#### **BOOK REVIEWS**

2021 **Jacob Warner**. Building Community in Coastal Deserts: Perspectives from Western South America. A review of *Maritime Communities of the Ancient Andes*, edited by Gabriel Prieto and Daniel H. Sandweiss. Anthropology Book Forum (7)1.

2020 **Jacob Warner**. Depauperate or Not? Examining Marginality in Island Environments. A review of *An Archaeology of Abundance: Reevaluating the Marginality of California's Islands*, edited by Kristina M. Gill, Mikael Fauvelle, and Jon M. Erlandson. Anthropology Book Forum (6)1.

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#### **MANUSCRIPTS IN REVIEW/REVISION**

**Jacob Warner**, Kristine L. DeLong, David Chicoine, Kaustubh Thirumalai, C. Fred T. Andrus, Alan Wanamaker, Jr, Miguel Etayo-Cadavid. El Niño-Southern Oscillation (ENSO) variability ~400–200 BCE: perspectives from a dual-archive bivalve approach. Submitted to Nature Communications Earth and Environment. In Revision.

**Jacob Warner**, Kristine L. DeLong, David Chicoine, and George Lau. Reconstructing Late Holocene Marine  $^{14}\text{C}$  Reservoir Corrections for North-Central Peru. Submitted to a special volume in Quaternary International. In Revision.

**Jacob Warner** and Aleksa Alaica. Teasing out the Trend: Examining the Impact of Climate Change and Human Behavior on *Donax obesulus* size in Northern Coastal Peru. For an upcoming edited volume based on the SAA 2021 symposium “Animal Bones to Human Behavior.” Edited by Richard Redding and Abigail Fischer. Book publication date TBD. To be published with the University of Utah Press.

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### **MANUSCRIPTS IN PREPARATION**

**Jacob Warner**, Lael Vetter, and Kaustubh Thirumalai. Oxygen Isotopes as a Potential North American Hydroclimate Proxy in the Marsh Rams-horn (*Helisoma trivolvis*). Journal TBD. Expected Submission Fall 2025/Spring 2026.

**Jacob Warner**. Isotopic Variability in Surface Waters of North-Central Peru: Implications for Paleoclimate and Paleomobility Reconstruction. For submission to the Journal of Archaeological Science: Reports. Expected Submission Fall 2025/Spring 2026.

**Jacob Warner**, Kristine L. DeLong, and David Chicoine. Sr/Ca as a potential sea surface temperature (SST) proxy in *Donax obesulus*. For submission to Palaeogeography, Palaeoclimatology, Palaeoecology. Expected Submission Fall 2025.

**Jacob Warner**, Brian Schubert, William Lukens, and A. Hope Jahren. Elevated precipitation seasonality alongside reduced temperature seasonality in the Eocene Canadian Arctic compared to modern. For submission to Geology. Expected Submission TBD.

Ashley Allen, **Jacob Warner**, and James Reardon. Sinkhole presence and repair in two Baton Rouge, Louisiana neighborhoods as evidence of environmental injustice. For submission to Environmental Research: Infrastructure and Sustainability. Expected Submission TBD.

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### **INVITED LECTURES**

#### **2025**

March 20, 2025 – SUNY Oneonta Department of Earth and Atmospheric Sciences Speaker Series.

March 17, 2025 – Friday Forum speaker series, Louisiana State University Department of Geography and Anthropology.

## **CONFERENCE PRESENTATIONS**

### **2024 (n=4)**

Mapping and Interpreting Water  $\delta^{18}\text{O}$  Variability in North-Central Peru. **Jacob Warner**. SUNY Oneonta Life of the Mind showcase. Oneonta, NY, November 2024.

Oxygen Stable Isotopes of Water in North-Central Peru: Implications for Bioarchaeology and Paleoclimate. Paper. **Jacob Warner**. 41<sup>st</sup> Meeting of the Northeast Conference on Andean and Amazonian Archaeology and Ethnohistory, Rochester, NY, October 2024. Delivered virtually.

From Sinkholes to Solutions: Community-Driven Hazard Adaptation in Baton Rouge, Louisiana. Paper. Ashley Allen and **Jacob Warner**. Annual Meeting of the American Association of Geographers, Honolulu, HI, April 2024.

Can Freshwater Flooding be Detected in Eastern Oyster (*Crassostrea virginica*) Shells Using Trace Elemental Signatures as an Environmental Proxy? Poster. Anna Stebbins, Kristine L. DeLong, and **Jacob Warner**. Ocean Sciences Meeting. New Orleans, LA, February 2024.

### **2023 (n=6)**

A Geospatial Analysis of Sinkholes and Structural Inequity in Baton Rouge, Louisiana. Poster. Ashley Allen, **Jacob Warner**, and James Reardon. Annual Meeting of the Middle States Division of the Association of American Geographers. Philadelphia, PA, November 2023.

A Geospatial Analysis of Sinkholes and Structural Inequity in Baton Rouge, Louisiana. Poster. Ashley Allen, **Jacob Warner**, and James Reardon. SUNY Oneonta Life of the Mind showcase. Oneonta, NY, November 2023.

Reconstructing Hydroclimate from Snail Stable Isotopes ( $\delta^{18}\text{O}$ ) in Arizona - Preliminary Results. Poster. **Jacob Warner**, Kaustubh Thirumalai, and Lael Vetter. SUNY Oneonta Life of the Mind showcase. Oneonta, NY, November 2023.

Reconstructing The El Niño-Southern Oscillation (ENSO) From Short-Lived Bivalves: Perspectives from Coastal Peru. Paper (keynote). **Jacob Warner**. Geological Society of America Annual Meeting, Pittsburgh, PA, October 2023.

Assessing the utility of trace elements (Sr/Ca, Mg/Ca, and Ba/Ca) as potential environmental proxies in *Donax obesulus*. Paper. **Jacob Warner**, Kristine L. DeLong, David Chicoine. 6<sup>th</sup> International Sclerochronology Conference, Tokyo, Japan, May 2023.

Assessing trace element ratios (Sr/Ca, Mg/Ca, Ba/Ca) as environmental proxies in the short-lived bivalve *Donax obesulus*: spatial and temporal considerations. Paper. **Jacob Warner**,

Kristine L. DeLong, David Chicoine. Annual Meeting of the American Association of Geographers, Denver, CO, March 2023.

#### 2022 (n=5)

<sup>17</sup>O-excess in tropical cyclones is controlled by integrated local and remote evaporative conditions. Poster. Chijun Sun, Timothy Shanahan, Shaoneng He, Adriana Bailey, Jesse Nusbaumer, Jun Hu, Aubrey Hillman, Erika Ornouski, **Jacob Warner**, Kristine DeLong. Annual Meeting of the American Geophysical Union, Chicago, Illinois, December 2022.

Warm Winters and Cool Summers in the Arctic During the Early Eocene Determined from Isotopes in Cellulose Extracted from Fossil Wood. Poster. **Jacob Warner**, Brian Schubert, William Lukens, and A. Hope Jahren. Annual Meeting of the American Geophysical Union, Chicago, Illinois, December 2022.

A dual-archive bivalve reconstruction of The El Niño-Southern Oscillation and its impacts on coastal Peruvian settlements ~2.4 ka. Poster. **Jacob Warner**, Kristine DeLong, David Chicoine, Kaustubh Thirumalai, C. Fred T. Andrus, Alan D. Wanamaker. Virtual International Sclerochronology Conference (viSC), September 2022.

Seasonal Temperature Ranges in the Early Eocene Canadian Arctic: Evidence from Tree Ring Stable Isotopes ( $\delta^{18}\text{O}$ ,  $\delta^{13}\text{C}$ ). Paper. **Jacob Warner**, Brian Schubert, William Lukens, A. Hope Jahren. Goldschmidt Conference (virtual), July 2022.

The El Niño-Southern Oscillation and its impacts on coastal Peruvian settlements ~2.4 ka: perspectives from two short-lived bivalve species. Paper. **Jacob Warner**, Kristine L. DeLong, David Chicoine, Kaustubh Thirumalai, C. Fred T. Andrus, Alan Wanamaker, Jr. Past Global Changes (PAGES) 6<sup>th</sup> Open Science Meeting (virtual), May 2022.

#### 2021 (n=3)

Trace Element Ratios (Sr/Ca, Mg/Ca, and Ba/Ca) in the Short-Lived Bivalve *Donax obesulus*: Potential Environmental Proxies? Poster. **Jacob Warner**, Kristine L. DeLong, David Chicoine. Annual Meeting of the American Geophysical Union, New Orleans, Louisiana, December 2021.

Contextualizing the Influence of Climate and Culture on Mollusk Collection: *Donax obesulus* Malacology from the Jequetepeque and Nepeña Valleys, Peru. Paper. **Jacob Warner** and Aleksa Alaica. Annual Meeting of the Society for American Archaeology (virtual), April 2021.

Trace Element Ratios in a Short-Lived Bivalve (*Donax obesulus*) as Potential Environmental Proxies: A Comparison of Modern and Archaeological Specimens. Paper. **Jacob Warner**, Kristine L. DeLong, David Chicoine. Annual Meeting of the American Association of Geographers (virtual), April 2021.

2020 (n=1, 1 canceled)

Eastern Pacific El Niño-Southern Oscillation variability ~400-200 BCE: perspectives from a dual-archive approach. Poster. **Jacob Warner**, Kristine L. DeLong, David Chicoine, Kaustubh Thirumalai, C. Fred T. Andrus, Alan Wanamaker, Jr. Annual Meeting of the American Geophysical Union (virtual), December 2020.

2019 (n=4)

Detecting Increasing El Niño-Southern Oscillation Intensity in Coastal Peru at ~400 BCE Compared to the mid-Holocene Using Short-lived Bivalves *Mesodesma donacium* and *Donax obesulus*. Poster. **Jacob Warner**, Kristine L. DeLong, David Chicoine, C. Fred T. Andrus, Kaustubh Thirumalai, Alan Wanamaker, Jr. Annual Meeting of the American Geophysical Union, San Francisco, California, December 2019.

Environmental Signals from *Donax obesulus* Provide Information on El Niño-Southern Oscillation (ENSO) Variability. Poster. **Jacob Warner**, Kristine L. DeLong, David Chicoine, Kaustubh Thirumalai, C. Fred T. Andrus, Alan D. Wanamaker, Jr. Geological Society of America Annual Meeting, Phoenix, Arizona, September 2019.

Local perspectives on ENSO mean states ~2300 B.P. and now:  $\delta^{18}\text{O}$  reconstructions from the short-lived bivalves *Donax obesulus* and *Mesodesma donacium*. Paper. **Jacob Warner**, Kristine L. DeLong, David Chicoine, C. Fred T. Andrus, Kaustubh Thirumalai, Alan Wanamaker, Jr. 5<sup>th</sup> International Sclerochronology Conference, Split, Croatia, June 2019.

Political Economy at a Casma Valley Middle Horizon Center: Evidence from Pan de Azúcar de Nivín, Peru. Poster. **Jacob Warner**, Elizabeth Cruzado Carranza, Mary Avila. 84<sup>th</sup> Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico, April 2019.

2018 (n=3)

Local Perspectives on ENSO Variability ~2300 BP and now: Evidence from two Short-Lived Intertidal Bivalves *Mesodesma donacium* and *Donax obesulus*. Poster. **Jacob Warner**, Kristine L. DeLong, David Chicoine, Alan D Wanamaker, C. Fred T. Andrus, Kaustubh Thirumalai. Annual Meeting of the American Geophysical Union, Washington, D.C., December 2018.

Insights into ENSO and Paleo-ENSO From Short-Lived Bivalves. Poster. **Jacob Warner**, Kristine DeLong, David Chicoine, Fred Andrus, Alan Wanamaker, Kaustubh Thirumalai. IV International Conference on El Niño Southern Oscillation: ENSO in a Warmer Climate, Guayaquil, Ecuador, October 2018.

Modern and Prehistoric El Niño-Southern Oscillation (ENSO) Variability: Perspectives from two Short-Lived Bivalve Species, *Donax obesulus* and *Mesodesma donacium*. Paper. **Jacob Warner**,



Kristine DeLong, Alan Wanamaker, Jr., David Chicoine, Kaustubh Thirumalai. Annual Meeting of the American Association of Geographers, New Orleans, Louisiana, April 2018.

#### 2017 (n=2)

Modern Analogues for Prehistoric El Niño Variability: Evidence from two Short-Lived Bivalve Species, *Donax obesulus* and *Mesodesma donacium*. Poster. **Jacob Warner**, Kristine DeLong, David Chicoine, Alan Wanamaker, and Kaustubh Thirumalai. Annual Meeting of the American Geophysical Union, New Orleans, Louisiana, December 2017.

Climate Training with Pueblos and Tribes in New Mexico and Louisiana. Oral presentation. **Jacob Warner**, Kristine L. DeLong, Micha Rahder, April Taylor, Kimberly Merryman, and Roger Fragua. Annual Meeting of the American Association of Geographers, Boston, Massachusetts, April 2017.

#### 2016 (n=2)

Assessing Seasonal Variability and Season of Harvest on the North-Central Coast of Peru Using Two Short-Lived Bivalve Species, *Donax obesulus* and *Mesodesma donacium*, from Archaeological and Modern Contexts. Poster. **Jacob Warner**, Kristine L. DeLong, David Chicoine, Alan D. Wanamaker Jr., and Kaustubh Thirumalai. 4<sup>th</sup> International Sclerochronology Conference, Portland, Maine, June 2016.

Assessing El Niño Variability on the Coast of Peru Using Two Short-Lived Bivalve Species, *Donax obesulus* and *Mesodesma donacium*, from Archaeological and Modern Contexts. Poster. **Jacob Warner**, Kristine L. DeLong, David Chicoine, Alan D. Wanamaker Jr., and Kaustubh Thirumalai. Ocean Sciences Meeting, New Orleans, Louisiana, February 26<sup>th</sup>, 2016.

#### 2015 (n=1)

Training for Native Tribes of Louisiana and New Mexico on Understanding Climate Change in a Changing World. Poster. **Jacob Warner**, Kristine DeLong, and Micha Rahder. South Central Climate Science Center annual workshop, Ft. Worth, Texas, November 19-20<sup>th</sup>, 2015.

#### 2013 (n=2)

Methodological Insights into the Sequential Banding of Modern and Archaeological *Donax Sp.* from the North Coast of Peru. Poster. **Jacob Warner**, Kristine DeLong, and David Chicoine, 3<sup>rd</sup> International Sclerochronology Conference, Caernarfon, Wales, May 22<sup>nd</sup>, 2013.

Discard Patterns and Trash Flow at the Early Horizon Center of Caylán. Poster. **Jacob Warner** and David Chicoine, 78<sup>th</sup> Annual Meeting of the Society for American Archaeology, Honolulu, Hawaii, April 5<sup>th</sup>, 2013.

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#### HONORS / AWARDS

**National Science Foundation Paleo Perspectives on Present and Projected Climate (P4CLIMATE).** For a project titled “Developing *Helisoma trivolvis* as a paleoclimate and paleoenvironmental archive: perspectives from two disparate climate regions.” Submitted as proposal #2503741, October 2024. PI Jacob Warner. Requested \$320,334. Rejected.

**SUNY Oneonta Summer Fellowship - Student Grant Program for Research and Creative Activity.** Summer 2024. Applied on behalf of an undergraduate student in the Department of Geography and Environmental Sustainability for a project titled "Water Sampling for Trace Elements and Stable Isotopes in Otsego County." \$3,300.

**SUNY Oneonta Faculty Research & Creative Activity Grant.** 2023-24. For a project titled: “Reconstructing Hydroclimate from Land Snail Stable Isotopes in Arizona.” \$1,000.

-2024-25. For a project titled: “Mapping Surface Water Isotopes in Coastal Ancash, Peru.” \$2,500.

**SUNY Oneonta Faculty Development Grant Fund.** 2022-23. For a project titled: “Furthering Knowledge on Human-Environment Interactions via Interdisciplinary Research in Coastal Peru.” \$1,700.

-2023-24. For a project titled: “Reconstructing Otsego Lake water conditions from freshwater mussel geochemistry.” \$1,040.

**Douglas C. Kellogg Fellowship for Geoarchaeological Research 2019 – Society for American Archaeology Geoarchaeology Division.** 2019. For a project titled: *Donax obesulus* as a proxy for El Niño Southern Oscillation dynamics in archaeological contexts in north-central coastal Peru. \$500.

**William G. Haag Best Graduate Student Conference Paper Competition 2019 – Louisiana State University Department of Geography and Anthropology.** 2019. For poster titled: Local Perspectives on “ENSO Variability ~2300 BP and Now: Evidence from Two Short-Lived Intertidal Bivalves *Mesodesma donacium* and *Donax obesulus*” presented at the 2018 annual meeting of the American Geophysical Union. \$250.

**Grantee - National Science Foundation, Paleo Perspectives on Climate Change (P2C2).** 2018. Submitted October 2017 as proposal #1805702, PI Kristine L. DeLong and co-PI David Chicoine, both of LSU Geography and Anthropology. \$411,493.

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## **SERVICE AND SYNERGISTIC ACTIVITIES**

### **Organizational:**

SUNY Oneonta

- Committee member, emergency Lecturer hire (Spring/Summer 2025)
- Thesis committee member, Victoria Prouty (M.S. Biology, SUNY Oneonta, Fall 2023-Spring 2025)

- Volunteer reviewer, SUNY Oneonta Research Foundation Faculty Research and Creative Activity grant program (Fall 2024)
- Department member involved in innovation initiatives, including new program development (Spring 2024-Spring 2025)
- Faculty Advisor Gamma Theta Upsilon (Fall 2024-Spring 2025), Co-Advisor (Fall 2022-Fall 2024)
- Department UUP Ambassador (Fall 2024-Spring 2025)
- Committee member, administrative assistant hiring committee (Fall 2023-Fall 2024)
- Committee member, department tenure-track hiring committee (Spring 2023)
- Departmental representative to the SUNY Oneonta curriculum committee (September 2023-May 2024, Spring 2025)
  - Subcommittee on microcredentials member, Spring 2024
- Departmental representative to the SUNY Oneonta library committee (January 2023-September 2023)
- Faculty advising member for the SUNY Oneonta Academic Research (SOAR) social sciences journal for students (Fall 2022-Spring 2025)
- Organizing Committee member, virtual International Sclerochronology Conference (vISC) of 2022. An event organized by and for early career researchers to precede the 2023 6<sup>th</sup> ISC meeting in Tokyo, Japan (2022).

#### Louisiana State University

- Created a Departmental Interdisciplinary Discord Server (“Getting out of the silo”) for the LSU Geography and Anthropology department (2020-2021).
- Past Global Changes (PAGES) Early Career Network (ECN) representative for the Clim-Arch-Date working group (2019-present).

#### Events:

##### SUNY Oneonta

- Served as a judge for the PLACES Institute student paper competition
- Trip leader, SOAR group attending the SUNY Undergraduate Research Conference 2024 at the Michael J. Grant Campus of the Suffolk County Community College
- Invited talk titled “Climate (in)justice” – United Women in Faith at First United Methodist Church of Baton Rouge, Louisiana (2023)
- SUNY Oneonta Prospective Student Spring Open House (2022, 2024)
- SUNY Oneonta Celebration of Teaching and Learning (2022)

##### Louisiana State University

- Archaeology Day at LSU (2018-2020)
- Ocean Commotion at LSU (2016-2019)

#### Journal Reviews:

- PALAIOS
- Limnology and Oceanography Letters
- Remote Sensing Applications: Society and Environment
- PLOS ONE

- Geophysical Research Letters
  - Andean Past
  - Geochemistry, Geophysics, Geosystems
  - Journal of Geophysical Research: Oceans
  - Chemical Geology
  - Climate of the Past (co-reviewer)
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## **SKILLS**

- Specimen Collection, Preparation, and Subsampling for Geochemical Analysis– Biogenic Carbonates
  - Field Collection of Water Samples
  - Python Coding/Data Visualization
  - MATLAB Coding/Data Visualization
  - Interpretation of Stable Isotope Data
  - Generation and Interpretation of Trace Element Data via ICP-OES, LIBS, and LA-ICP-MS
  - Microscopic Analysis
  - Sclerochronological Analysis
  - GIS Mapping and Analysis – ArcGIS Pro and QGIS
  - Interpretation and Use of Satellite Imagery
  - Raman Microscopy
  - Archaeological Excavation
  - Archaeological Surface Survey and Shovel Test Pit Survey
  - GPS-based Mapping
  - Artifact Cataloguing and Collections Management
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## **MEMBERSHIPS / AFFILIATIONS**

- Lambda Alpha National Anthropology Honor Society Member
  - Gamma Theta Upsilon International Geography Honor Society Member
  - American Association of Geographers (AAG) Member (2016-present)
  - American Geophysical Union (AGU) Member (2015-present)
  - Geological Society of America (GSA) Member (2019-2021; 2023-present)
  - Institute of Andean Studies (2023-present)
  - LSU Geography and Anthropology Society (GAS) Member (2011–2021); Faculty Liaison (Spring 2016–Fall 2017)
  - Society for American Archaeology (SAA) Member (2012-2021)
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## **LANGUAGES**

English – native speaker

Spanish – intermediate reading and speaking

German – beginner reading and speaking  
Russian – beginner reading and speaking  
Latin – beginner reading

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