

Bailey Jørgensen

jorb1.github.io | [GitHub](https://github.com/jorb1) | [LinkedIn](https://www.linkedin.com/in/baileyjorgensen)

EDUCATION

Master of Environmental Data Science (June 2025)

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Highlighted Coursework: Geospatial Analysis & Remote Sensing, Modeling Environmental Systems, Databases & Data Management, Machine Learning in Environmental Science

Master of Science in Maritime and Naval Studies (June 2024)

State University of New York Maritime College (SUNY), Bronx, New York

Highlighted Coursework: Maritime Digital Archives, Issues Particular to Maritime Museums, Government Transportation/Environmental Policy

Bachelor of Science in Anthropology, Archaeology Emphasis (June 2015)

Montana State University, Bozeman, Montana

TECHNICAL SKILLS

Programming: Python, R/RStudio, and SQL (proficient), Matlab, Bash, Javascript, and C++ (intermediate)

Software: SQL Databases (Symbiota, Specify), ESRI Suite (ArcGIS Online, StoryMaps), QGIS, Git and GitHub, Microsoft Office Suite, Adobe Creative Suite, Photogrammetry and Photostacking softwares (multiple)

PROFESSIONAL EXPERIENCE

Collections and Data Manager - Raymond M. Alf Museum of Paleontology, Claremont, CA (July 2019 – current)

Collections Assistant (June 2017 – July 2019)

- Managed all physical and digital aspects of an active vertebrate paleontology research collection of over 175,000 specimens including conservation, digitization, loans, and accessions. Followed modern best practices standards through the American Alliance of Museums (AAM) and the Society for the Preservation of Natural History Collections (SPNHC)
- Operated as part of a field crew to map and collect geologic data and fossil specimens at over 1200 localities throughout the Western United States, including backcountry sites accessed by helicopter
- Curated all specimens brought in, including osteological identification and digitization
- Implemented the museum's first ArcGIS mapping and geospatial analytics program that synergizes with the SQL Specify specimen database
- Implemented improvements into our SQL database and digital workflow utilizing Python and R programming, including batch editing and data visualization
- Prepared and submitted permit applications and year end reports for state and federal government
- Collaborated with fellow data managers to improve paleo-geology database structure including as a collaborator for an NSF funded Symbiota project.
- Secured over \$30,000 dollars in grants from fundraising events and museum networking
- Acted as museum liaison with Indigenous communities to repatriate artifacts and ancestral remains as the museum's North American Graves and Repatriation Act (NAGPRA) Primary Contact
- Hosted on-site visitors from the international and national scientific community to provide specimen and data access for active research and education initiatives
- Operated as Project Leader to create the museum's first historic archives system. Objects preserved included film, newsprint, photographs, and textiles

Deckhand & Educator – Los Angeles Maritime Institute, Los Angeles, CA (01/2016 – 11/2016)

- Sailed over 200 day-sails and voyages throughout the California coast and the Channel Islands under the direction of the captain and in collaboration with fellow deckhands

PROFESSIONAL EXPERIENCE (continued)

- Maintained two historic brigantines using specialized preservation techniques for wood and iron materials according to Maritime Institute best practices
- Implemented shipboard education programs for a variety of age groups during multi-day field trip excursions including POLA High School Maritime Pathways Program, Topsail STEM Adventure Program, Beyond the Bell Oceanography Middle School Program, and UCS Dockside and Overnight Voyages

DATA SCIENCE PROJECTS

Evaluating the protection of diverse and representative coastal and marine habitats within California's Marine Protected Area (MPA) network (10/2024 – 06/2025) | Clients: University of California Santa Barbara, Monterey Bay Aquarium, and California Department of Fish and Wildlife

- Utilized new and extensive geospatial remote sensing datasets to analyze in R Studio 262,862 hectares of habitat abundance data within MPAs to inform conservation efforts and augment existing habitat understanding following the state's Decadal Management Review
- Delivered an official 76-page written report to summarize and provide access to our findings. Created a corresponding interactive map on a Quarto Dashboard using Shiny for R
- Operated as Team Leader in ensuring the quality and timeliness of our deliverables

PUBLICATIONS

Lofgren, Donald, Debra Hanneman, Anthony Runkel, Ping Fong, Gabriel Hong, Josephine Burdekin, Michael Chai, Yvonne Kan, **Bailey Jørgensen**. "New records of Eocene and Oligocene Squamates from Southwest Montana." *Paludicola* 14, no.3 (Winter 2023): 110-121.

Lofgren, Donald, Debra Hanneman, **Bailey Jørgensen**, Shuwen Zhang, Laura Li, Xander Kong, Jonathan Yu, Frank Hu, Aspen Helgeson, Yvonne Kan, Jonathan Becker, Emily Li, Sihan Li, Nick Lee, Anthony Runkel. "Bridgerian and Uintan (Eocene) Mammals from Sage Creek Area of Southwest Montana." *Paludicola* 15, no. 2 (June 2025): 47-82.

AWARDED RESEARCH GRANTS

Project Title: "Paleo-robotics: A Student-Driven Experiment in Underwater Paleontology, SVP \$1250, PS \$2500

PROFESSIONAL TALKS AND POSTERS

Saira Bhagat, **Bailey Jørgensen**, Mairin Balisi. 2025. *A vertebral column of a False Saber-toothed Cat (Dinictis) from the Oligocene of South Dakota, USA* [Poster Presentation]. Southern California Academy of Sciences. Los Angeles, California, United States.

Sydney Becker, Nathan Michaelson, **Bailey Jørgensen**, Mairin Balisi. 2024. *Post-cranial remains from a Subhyracodon Bonebed from the Brule Formation of Niobara County, Wyoming* [Poster Presentation]. North American Paleontological Convention. Ann Arbor, Michigan, United States.

Jørgensen, Bailey. 2023. *Fossil Repatriation: Let's Talk about it* [Conference Session]. The Society for the Preservation of Natural History Collections. San Francisco, California, United States.

Jørgensen, Bailey. 2022. *Gryposaurus monumentensis: the holotype fossil that brings people together* [Conference session]. The Society for the Preservation of Natural History Collections. Edinburg, Scotland.

ADDITIONAL EXPERIENCE

Teaching Assistant (Statistics for Geospatial Analysis) – UCSB Santa Barbara (8/2024–12/2024)

Assistant Cook & Deckhand – Maine Windjammer Association, Camden, Maine (6/2015-10/2015)

Assistant Librarian – Montana State University, Bozeman MT (9/2013–6/2015)