Bailey Jørgensen

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jorb1.github.io | GitHub | LinkedIn

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, Databases & Data Management, Machine
    Learning and AI, Ethics in Data Science, Statistics for Environmental Data 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, Archives Access and Management, 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, ESRI Suite (ArcGIS Online, StoryMaps), QGIS, Git and GitHub, Microsoft Office Suite,
Adobe Creative Suite, Photogrammetry and Photo stacking software, 3D Scanning software, Library ILS

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 assets of an active research collection of over 200,000 specimens including conservation, digitization, loans, and accessions following evolving modern best practices
- Implemented the museum's first ArcGIS mapping and geospatial analytics program that synergizes with the relational SQL specimen database, Specify. Implemented organizational change in field practices and the post processing of field data to accommodate this workflow
- Integrated improvements into our SQL database and digital workflow utilizing Python and R programming, including batch editing, data cleaning, and data visualization
- Collaborated with fellow data managers to provide insight on paleo-geology database structure as a collaborator for an NSF funded Paleo Data Portal through the Paleo Data Working Group
- Acted as Project Lead for the "Paleo-robotics project" which involves student-led ROV building, data gathering, and video and GIS data processing for submerged paleontological field site analysis
- Operated as Project Leader to create the museum's first digital historic archives system and associated workflow, including implementing machine learning methods for text and photo analysis
- Presented regular progress reports and data visualizations to the Board of Directors
- Created 3D models of specimens and stayed abreast of evolving 3D digitization software
- Hosted on-site visitors from the international and national scientific community to provide specimen and data access for active research and education initiatives
- 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
- 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
- Developed an updated Collections Management Policy in tandem with the Museum Director and Board of Directors as part of the AAM Reaccreditation process in 2024
- 7 years of supervising and managing teams of volunteers and students during collections projects and field operations, including specimen data analysis for conference posters and summer camps in rural Mongolia

PROFESSIONAL EXPERIENCE (continued)

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
- 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

Assistant Librarian – Montana State University, Bozeman MT (9/2013–6/2015)
- Collaborated with the lead Research Librarians in providing patron access to library resources using the digital asset management system in the main collection and the special collection.
- Completed a major collection move following a shelving renovation with a team of fellow assistants

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 emLab, Monterey Bay Aquarium, and California Department of Fish and Wildlife [Master's Capstone Project]
- Utilized large geospatial remote sensing datasets in a variety of multidimensional formats to conduct statistical analysis for 262,862 hectares of new habitat abundance data within MPAs.
- Provided habitat insights for the MPA Working Group's conservation efforts and augmented existing habitat understanding following the state's Decadal Management Review
- Operated as Team Leader in ensuring the quality and timeliness of our deliverables in the form of a 76-page written report and an interactive dashboard

PUBLICATIONS

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

CONFERENCE AND SYMPOSIUM HIGHLIGHTS

- Andrew Farke, **Bailey Jørgensen**, et al. 2025. *Paleoecology and biogeography of Quick Pocket, a vertebrate microfossil assemblage from the 'Mesaverde' Formation (Campanian) of the Bighorn Basin, Park County, Wyoming USA* [Published Abstract]. Arizona Museum of Natural History. Mesa, Arizona, 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.