

NATHANIEL JEAN-RENE BUROLA

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EDUCATION

Master of Environmental Science and Management, GPA 3.87 (Expected 6/20)

Coastal Marine Resources Management (CMRM) Specialization | Environmental Data Science Focus

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

Bachelor of Science in Environmental Science with a Minor in Political Science, GPA 3.63 (12/17)

California Lutheran University (CLU) – Thousand Oaks, CA

TECHNICAL SKILLS

Data Analysis and Synthesis: Microsoft Excel, RStudio, ImageJ, Github, and PrimerE.

Database Management: F1000 Workspace, SQLite, Zotero, and Mendeley.

Mapping and Data Visualization: ArcGIS, Tableau, QGIS, and Python.

Communication: Microsoft Office Word, PowerPoint, Zoom, and Slack.

Website Design: Squarespace and WordPress.

Social Media: adoring-ritchie-d41f7c.netlify.app/, linkedin.com/in/nathaniel-burola-5763ab49

ADDITIONAL INFORMATION

Languages: English (fluent in speaking, writing, and reading); French (basic speaking, writing, and reading)

Professional Memberships: Association of Environmental Professionals California (AEP)

Certifications: OSHA 40-Hour Hazardous Waste Site Worker Certification Training;

PADI Open Water Diver Certification

Personal Website: adoring-ritchie-d41f7c.netlify.app/

MASTER'S GROUP THESIS

Evaluating Adaptive Management Strategies for Climate Change Resilient Fisheries (04/19 – 05/20)

Client: Environmental Defense Fund (EDF)

Duties: Member & Outreach Manager

- Developed a quantitative model that incorporated climate change into EDF's framework for integrated stock and habitat evaluation (FISHE) system to simulate changes in biomass over a 100 year time horizon.
- Co-authored the final report with recommendations to include a proxy climate step in FISHE, a policy brief, a poster, and a final public presentation.
- Designed the Master's Group Thesis project website through Squarespace; facilitated the development of an interactive web application called a Shiny app to communicate essential takeaways of the project.

WORK EXPERIENCE

Graduate Teaching Assistant, University of California, Santa Barbara (UCSB) (03/20 – 06/20)

- Mentored 60 students through the online learning support platform Gauchospace for the class "Global History, Culture, and Ideology"; provided student guidance on 60 midterms and finals.
- Cultivated weekly forum posts on Gauchospace from student groups using current news events that were related to lecture material; tracked attendance and participation for 60 students.
- Held weekly office hours using a combination of Calendly and Google Calendar for logistics and appointment times as well as Zoom for calls with students to provide oral guidance.

Graduate Teaching Assistant, University of California, Santa Barbara (UCSB) (09/19 – 03/20)

- Provided grades for 42 midterms and finals as well as 98 short papers for 42 students in the class "Global Ideologies and World Order"; provided student feedback through the platform Gauchospace.
- Delivered lecture on California coastal zone management that focused on coastal policy and future issues in the state for the protection of rural coastal zones.
- Held weekly office hours and implemented interactive activities during section (jeopardy and reading concept game) to stimulate learning and critical thinking of lecture material.

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Research Assistant, University of California, Santa Barbara (UCSB) (7/19 – 8/19)

- Strengthened the environmental cobenefits section of a seaweed working group using the F1000 database to upload scientific literature related to commercial cultivation of kelp species in temperate waters.
- Analyzed 33 primary and grey literature sources to document information on nitrogen, phosphorus, and carbon content for specific kelp species to be used for seaweed mariculture with carbon sequestration.
- Summarized the key points of all uploaded sources in the F1000 database by noting down the biofilter potential of kelp species for the potential assimilation and removal of nutrients including carbon in water.

Marine Graduate Researcher, University of California, Santa Barbara (UCSB) (06/19 – 09/19)

- Coordinated a team of 3 researchers surveying Olympia oyster recruitment at 4 study sites at the Carpinteria Salt Marsh to determine ecological restoration impacts of the Thomas Fire debris flow.
- Composed a scientific literature matrix with 2 primary literature and 5 grey literature sources discussing how key abiotic factors (temperature, salinity, etc.) can affect the growth rates and frequency of oysters.
- Forecasted the estimated settling dates of 283 surveyed adult oysters by using ImageJ to determine their original settling dates and calculate how many pre Thomas Fire debris flow oysters existed at one point.

Environmental Intern, Alta Environmental, Long Beach, CA (01/18 – 08/18)

- Complied hazardous waste inventories into the California Environmental Reporting System (CERS) for the environmental health and safety team to keep track of hazardous waste and materials for industrial clients.
- Proposed different methods of improving green purchasing at the company by using more green brands such as Seventh Generation to operate in a manner that does not permanently deplete resources.
- Conducted air quality readings and took soil samples on job sites for the site assessment, remediation, and closure (SARS) team to help construction clients remain in compliance with CEQA and NEPA regulations.

Freshwater Undergraduate Researcher, University College Dublin, Dublin, Ireland (6/17–7/17)

- Modelled the effects of small hydropower schemes on fish and macroinvertebrates through PrimerE and Excel to identify the impacts of barriers on freshwater hydromorphology and connectivity in Irish rivers.
- Classified 9 types of freshwater macroinvertebrates from river samples by surveying the physical dimensions of barriers to define their biological impacts either upstream or downstream of the river.
- Conducted research presentation for 30+ academic scientists at the Western Society of Naturalists (WSN); found that upstream artificial barriers of a river have an effect on mayfly communities.

Marine Undergraduate Researcher, California Lutheran University, Thousand Oaks, CA (06/16 – 12/17)

- Oversaw a team of 3 researchers evaluating the development of marine fouling communities in Channel Islands Harbor to understand how environmental conditions could affect marine succession.
- Assessed the growth rates of the keystone species the California mussel and other sessile invertebrates to determine the dominant invertebrate in marine communities.
- Presented to 20+ academic scientists at the Western Society of Naturalists (WSN); found greater species richness at the location furthest away from the mouth of the Channel Islands Harbor.