SYDNEY RILUM

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EDUCATION

Master of Environmental Science and Management, (Expected June 2022)

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

Specializations: Coastal Marine Resources Management and Conservation Planning

Highlighted Coursework: Advanced Data Science, Geographic Information Systems, Biogeochemistry,

Ecological Principles, Earth System Science, Coastal Policy and Management

Bachelor of Arts in Environmental and Ocean Sciences, 3.79 GPA (May 2018) **University of San Diego (USD)**

Specialization: Marine Ecology | Minors: Biology and Chemistry

Honors/Awards: Dean's List-First Honors, Environmental and Ocean Sciences Outstanding Academic

Excellence Departmental Award

<u>Leadership/Involvement:</u> Marine Science Club Co-President, Dance Team Co-Captain, Preceptorial Assistant (academic mentor to 20 first year students)

WORK EXPERIENCE

Scientific Aid (5/2020–6/2020)

California Department of Fish and Wildlife, Newport Beach, California

- Monitored Upper Newport Back Bay's endangered California least tern colony, documented nesting behaviors during weekly island visits and observations from the bluff
- Removed invasive vegetation and patrolled public trails
- Prepped, maintained, and piloted skiff and pontoon boats
- Assisted with monthly fish surveys and collections for the Marine Life Inventory program, including plankton tows, otter trawls, and beach seines
- Aided with predator control trapping for the endangered Ridgeway's Rail

Tidepool Educator (5/2019–9/2020)

Laguna Ocean Foundation, Laguna Beach, California

- Provided education on rocky intertidal organisms and ecosystems to the public
- Promoted marine conservation efforts by increasing public awareness of the laws within marine protected areas and the proper way to explore the tidepools
- Conducted statistical analysis and data reconfiguration of monthly tidepool impact data collected by educators within the marine protected area
- Interacted and cooperated with City of Laguna Beach Lifeguards and Marine Safety Protection Officers for their enforcement of state and local laws, as well as safety

NSF-Funded Research Intern (6/2017–8/2017)

Duke University Marine Laboratory, Beaufort, North Carolina

- Conducted independent research project on the effect of chemical cues on molting of fiddler crab megalopae
- Collected fiddler crab larvae using plankton nets during nocturnal flood tides
- Performed DNA extraction, PCR, and gel-electrophoresis for larval species identification
- Presented research results to Duke faculty, in process of publishing research with mentors

Marine Mammalogy Intern (5/2016–8/2016)

Aquarium of the Pacific, Long Beach, California

- Practiced proper husbandry techniques and food preparation for sea lions, seals, and sea otters and trained harbor seals by maintaining learned behaviors
- Fed marine mammals and conducted enrichment sessions alongside mammalogists
- Educated guests on marine mammals and conservation during pinniped presentations
- Researched and presented behavioral study on sea otter pocketing

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VOLUNTEER EXPERIENCE

Beach Profile Monitor (10/2020–Present)

California Sea Grant - CoAST SB, Santa Barbara, California

- Monitor the movement of the shoreline along Santa Barbara beaches by conducting monthly beach profile/contour surveys
- Data collected is added to a long-term dataset used by USGS to track changes, calibrate beach profile models, and aid local governments in planning for future coastal erosion, flooding and climate change

$\textbf{Field Monitor and Education Outreach Volunteer} \ (10/2018-9/2020)$

OC Habitats, Orange County, California

- Surveyed and monitored Orange County coastal beach dune habitats for shorebirds, focusing on the threatened western snowy plover and endangered California least tern
- Taught elementary school students (K-6th) about local habitats using curriculum-based information during science education field trips
- Monitored snowy plover and least tern nests for Bolsa Chica Wetlands Conservancy and Huntington State Beach/Orange County State Parks during summer nesting seasons
- Coordinated and hosted beach clean-ups

Science Education Mentor (1/2018-3/2018)

Ocean Discovery Institute, San Diego, California

- Engaged fourth grade students in science education, sparking interest in science careers
- Assisted with instruction of lessons and classroom management
- Prepared hands-on science lessons and helped facilitate field trips to local wetland

CONFERENCES

48th Benthic Ecology Meeting, St. John's, Newfoundland, Canada (4/4/2019)

• Awarded 2nd place undergraduate research presentation among 80+ students for my research on "The Effect of Adult Chemical Cues on Molting of Fiddler Crab Megalopae in Low Salinity Seawater"

Creative Collaborations Undergraduate Research Conference, San Diego, CA (4/19/2018)

"Effect of Adult Chemical Cues on Molting of Fiddler Crab Megalopae in Low Salinity Seawater"

PUBLICATIONS

Reinsel, K.A., Rilum, S.C., Lohmann, S.C., Farmer, M.A., Welch, J.M., Forward, R.B., Jr. (*In Revision*). Estuarine salinities enhance effects of adult odors on molting of field-caught fiddler crab megalopae.

Rilum, S.C. (2018). Effect of Adult Chemical Cues on Molting of Fiddler Crab Megalopae in Low Salinity Seawater. *Undergraduate Honors Theses*, 58. http://digital.sandiego.edu/honors_theses/58

SKILLS, AFFILIATIONS, & CERTIFICATIONS

Computer: R/RStudio, ArcGIS/QGIS, Microsoft Office (Word, Excel, PowerPoint, Outlook)

Languages: Conversational Spanish, Basic Danish

Affiliations: Kappa Gamma Pi

Certifications: PADI Open Water Diver, California Boating License