

William Kumler

4229 7th Ave NE, Apartment #103, Seattle, WA 98105.

Phone: (909) 907-2385 • Email: wkumler@uw.edu

Education

University of Washington, School of Oceanography — Seattle, WA Doctoral student Member of the Marine Microbial Metabolomics Center	June 2019—Present
University of California, Berkeley — Berkeley, CA Bachelor's degrees in Molecular Environmental Biology and Marine Science GPA: 3.64/4.0 • Departmental Honors	Graduated May 2018

Previous employment

Lab manager for Koehl Lab: <ul style="list-style-type: none">• Maintain live cultures of choanoflagellates and various protozoa• Manage and organize lab members, materials, and safety• Assist visiting researchers with projects and statistical analyses• Tutor undergraduates in ImageJ and R programming	August 2017 — Present UC Berkeley
Lab manager for Edwards Lab: <ul style="list-style-type: none">• Laboratory planning and setup• HPLC-MS (Thermo Fusion Lumos ID-X) sample preparation and analysis• Data handling, statistical analyses and lipidomics pipeline development, maintenance, and expansion• One-on-one education of undergraduates in R programming and SLURM cluster architecture	August 2018 — Present UC Berkeley

Publications

- W. Kumler, J. Jorge, P. Kim, N. Iftekhar, and M.A.R. Koehl (2020).** Does formation of multicellular colonies by choanoflagellates affect their susceptibility to capture by passive protozoan predators? *Journal of Eukaryotic Microbiology*. Published online ahead of print (May 26th, 2020). DOI: 10.1111/jeu.12808

Conference proceedings

- W.E. Kumler & M.A.R. Koehl (2017).** Evolution of multicellularity: Capture of unicellular vs colonial choanoflagellates by a protozoan predator. Poster. Summer Undergraduate Research Fellowship Conference, Berkeley, CA.
- W.E. Kumler & M.A.R. Koehl (2018).** Evolution of multicellularity: Capture of unicellular vs colonial choanoflagellates by a protozoan predator. Presented as a poster at the 2018 Society of Integrative and Comparative Biology Annual Meeting, San Francisco, CA. Poster #P1-115
- W.E. Kumler & B. Edwards (2018).** Sign of the times: the lipid signature of a collapsing phytoplankton bloom. Presented at the Summer Undergraduate Research Fellowship Conference, Berkeley, CA.
- W.E. Kumler, H. Fredricks, J. Ossolinski, A. Allen, K. Thamatrakoln, K. Bidle, B. Van Mooy, & B. Edwards (2019).** Sign of the times: the lipid signature of a collapsing phytoplankton bloom. Presented as a poster at the 2019 Aquatic Sciences Meeting (ASLO) in San Juan, Puerto Rico. Poster #411, Session SS027

Outreach efforts

Volunteer at the Seattle Aquarium <ul style="list-style-type: none">• “Inspiring conservation of our marine environment”• Personally engage with visitors and facilitate their understanding of exhibits	March 2020—Present
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Teaching experience

Reader for EPS C82 (Oceans):

August 2017 — December 2017

- Helped organize and structure the course for Fall 2017
 - Designed and graded student exams and homework assignments
 - Held regular office hours to answer student questions and hold discussions
- UC Berkeley

Reader for EPS N82 (Introduction to Oceans):

June 2017 — August 2017

- Planned lectures and provided logistical support for Summer 2017
 - Designed and graded student exams and homework assignments
 - Held office hours weekly (3 hours) to meet with students and review material
- UC Berkeley

General and organic chemistry undergraduate student instructor: January 2015 — December 2017

- Assisted graduate student instructors in general and organic chemistry labs (Chem 1AL, 3AL, and 3BL)
 - Provided feedback on existing labs and designed and tested new possibilities
 - Nominated by peers as group leader for three semesters (Spring 2016, Spring 2017, and Fall 2017)
- UC Berkeley

NAUI Training Assistant for the Dive Safety and Scientific Diving courses:

Spring 2017 & 2018

- Worked with students both in the classroom and the water
 - Demonstrated skills and shared tips and experiences
 - Acted as safety diver for scientific divers-in-training
 - Worked to ensure student comfort and safety both in the pool and open ocean
- UC Berkeley &
USC Wrigley Institute

Other relevant experience

Participated in the UC Berkeley Moorea Program:

Fall 2016

- Spent a semester abroad in Moorea, French Polynesia
 - Developed, designed, and conducted novel, independent research
 - Studied the effects of allelopathic algae on coral health
 - Resulted in PeerJ preprint available at <https://doi.org/10.7287/peerj.preprints.2700v1>
- Gump Research Station
Moorea, French Polynesia

Sailed aboard the R/V Oceanus with Dr. Jim Bishop:

August 2016

- Worked with the Carbon Flux Explorers to measure carbon sequestration
 - Collaborated with Dr. Phoebe Lam and Dr. Mike Stukel on relevant projects aboard the vessel related to carbon chemistry
 - Responsible for deploying, managing, and recovering CTD rosette samplers, Carbon Flux Explorers, McLane pumps, and surface-tethered sediment traps
 - Trained on ship A-frame controls and troubleshooting
- UC Berkeley

Advocate for Marine Science at Cal

Fall 2016 – Spring 2018

- Presented at workshops and university open-houses about the marine science program at UC Berkeley
 - Led discussions and engaged with interested students one-on-one
 - Regularly advised students about class schedules and discussed double/simultaneous degree feasibility
- UC Berkeley