

Farallon Broughton
Curriculum vitae

Fisheries & Wildlife
Oregon State University
104 Nash Hall
Corvallis, OR 97331
Farallon.broughton@oregonstate.edu
they/them/theirs pronouns

Education

Department of Fisheries & Wildlife at Oregon State University
PhD in Wildlife Science, anticipated June 2023
Advisor: Ivan Arismendi

College of Creative Studies at University of California, Santa Barbara
BA in Biology, *magna cum laude*, June 2016
Advisor: Armand Kuris

Grants, Fellowships, and Awards

NSF INTERN (Non-Academic Graduate Research Internship)	Spring 2021
NSF GeoAllies Grant	Spring 2021
Zoology Research Fund Grant	Spring 2019
NSF Graduate Research Fellowship	Spring 2017
Worster Summer Fellowship	Summer 2015
CCS Summer Undergraduate Research Funding Award	Summer 2015
CCS Traveling Undergraduate Research Funding Award	Summer 2015
Undergraduate Research and Creative Activities Travel Award	Spring 2015
Undergraduate Research and Creative Activities Grant	Fall 2014

Publications

Morton, D., Antonino, C., Broughton, F.J., Dykman, L., Kuris, A.M. and Lafferty, K.D. 2021.
“A food web including parasites for kelp forests of the Santa Barbara Channel,
California”. *Scientific Data* 8: 99.

Broughton, F.J., Fentress, M.K., Weinstein, S.B. and Kuris, A.M. (in prep.) “Parasite burden,
host size, and the life of octopuses”

Presentations

UCSB Undergraduate Research Colloquium, Santa Barbara, CA “Parasite Burden, Host Size, and the Life of Octopuses” (poster)	May 2015
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- Annual Meeting of the American Society of Parasitologists, Omaha, NE June 2015
 “Parasite Burden, Host Size, and Immune Response of *Octopus bimaculoides*”
- Annual Meeting of the Western Society of Naturalists, Sacramento, CA November 2015
 “Zooplankton Diversity and Parasitism in Santa Barbara Channel Kelp Forests”
- OSU Research Advances in Fisheries, Wildlife, and Ecology Symposium
 “A Call for Corpses: Post-Endpoint Parasite Surveys Reduce Waste and Provide
 Additional Value to Research Projects” (poster; presenter) May 2020
 “Is Prevalence of the Trematode *Nanophyetus salmincola* Higher in Creeks with
 Increased Presence of Domestic Dogs?” (poster; co-author) May 2021
- Coalition of Graduate Employees Lightning Talks March 2021
 “You’ve Got a Friend in You: Human Parasites, Human Mutualists, and Why Your Little
 Friends Have Your Back”
- InQUEERy Out in STEM Symposium May 2021
 “Undoing the Legacy of Eugenics: a transformative approach to teaching sex, gender, and
 sexuality in Biology curricula”

Research Experience

- Graduate research September 2017 – present
 I study parasites in stream ecosystems, with a focus on the effects of trematodes on
 ecological food webs and community structure of streams in the Pacific Northwest. My research
 involves ecological fieldwork, stream health monitoring and surveys, environmental DNA
 techniques, laboratory and field experiments, and parasitological dissection and identification.
- Research Assistant June 2017-August 2017
 Assisted graduate students in the Blaustein Lab at Oregon State University in collecting
 amphibian eggs and larvae in remote field locations in the Cascades Range; laboratory animal
 care including feeding, water changes, and medical care; and conducting experiments on disease
 transmission including daily monitoring, necropsies, and data collection.
- Independent undergraduate research September 2013–June 2017
 Advisor: Armand Kuris
 Conducted a survey of parasites of the California two-spot octopus, *Octopus
 bimaculoides*, with implications for host life history, food web structure and interactions, and
 aquaculture practices.
- Mentored undergraduate research June 2015–June 2017
 Mentors: Dana Morton, John McLaughlin (graduate students in Ecology, Evolution, and Marine
 Biology), and Marisa Tellez (postdoctoral student in Ecology, Evolution, and Marine Biology)
 Conducted plankton tows off of nearshore kelp forests at Santa Barbara Coastal LTER
 sites in order to link benthic and planktonic communities and assess prevalence of parasitism in

nearshore zooplankton. Identified and quantified zooplankton collected from Palmyra to assist in constructing a food web of the atoll. Identified host snails and corresponding trematode fauna of Blackadore Caye in Belize as part of a larger study of the ecological impact of a new resort.

American Museum of Natural History, Microfossil Conservation and Digitization Intern

June – August 2014

American Museum of Natural History, Volunteer in Vertebrate Paleontology

June – August 2013

Teaching Experience

Co-PI, NSF GeoAllies Project

Spring 2021 – Spring 2022

Funded by NSF as a co-PI on the GeoAllies project to plan field excursion and laboratory activities for FW456/556 (Freshwater Ecology and Conservation).

Graduate Teaching Assistant, FW255

June 2021 – September 2021

Taught as Instructor of Record for eCampus course FW255 (Field Sampling of Fish & Wildlife) for one quarter. Students developed independent, non-invasive field sampling projects to answer a research question of their choosing; course culminated in individual oral presentations on project data. Duties included grading of weekly quizzes; weekly field journals; assignments on hypothesis development, behavioral sampling, and literature review; and final oral presentations. Provided detailed individual feedback to each student on assignments.

Graduate Teaching Assistant, Bi21X

September 2017 – June 2018

Taught the lab portion of the Bi21X (Introductory Biology) series for three quarters. Duties included writing quizzes, reading and grading written assignments, lecturing on course curriculum, setting up and facilitating lab activities including manipulative experiments and PCR, and proctoring exams. Employed by the department of Integrative Biology at Oregon State University.

Academic Skills Tutor

September 2016–June 2017

Led 90-minute workshops in lecture strategies, time management, transfer student success, and citing sources for STEM fields. Led weekly 90-minute workshops for students on academic probation or disqualification in order to achieve better educational outcomes. Employed by Campus Learning Assistance Services at the University of California Santa Barbara.

Undergraduate Assistant

January – March 2016

Assisted graduate students in setting up and cleaning up labs twice a week, prepared live demonstration material, and ordered and restocked materials for an upper-division Parasitology class.

Undergraduate TA

January – June 2016

Assisted graduate students in teaching upper-division Parasitology and Invertebrate Zoology labs, performed dissections, prepared live and preserved demonstration materials, set up lab practicals, graded midterms, taught invertebrate anatomy and diversity, curated and rehoused preserved specimens, and answered students' questions.

Departmental and Institutional Service

Departmental Steward, Coalition of Graduate Employees Fall 2017 –

Served for four years as shop steward for the Integrative Biology and Fisheries & Wildlife departments; steward duties included conducting tabling and outreach for the union, recruiting new members, maintaining regular communication with members through office visits and email, planning and executing union events and direct action campaigns, serving on caucuses, giving testimony during bargaining, attending Steward Council meetings, creating meeting agendas and facilitating meetings. Also served on Steward Communications Council and the Hardship Fund, Sexual Harassment Policy, and Finance committees, as well as being an active member of the Pride, Disability Justice, Mutual Aid, and Housing caucuses. Founded CGE's Pride Caucus, which is dedicated to protecting the rights and interests of graduate employees in the LGBTQIA2+ community. Founded CGE's Sexual Harassment Policy Committee, which is dedicated to writing and enforcing a policy of conduct for the union.

Integrative Biology Equity, Justice, and Inclusion Committee Fall 2017 – Winter 2019

Founding member of the committee, a joint effort between graduate students, staff, and faculty of Integrative Biology to fight for a more inclusive departmental community that is welcoming to scientists of all identities and backgrounds. Helped formulate a departmental culture survey taken by graduate students in that program.

Oregon State University Trans Taskforce Fall 2018

Served as a member of the Trans Taskforce, a coalition dedicated to protecting the rights of transgender, nonbinary, and gender-nonconforming students at OSU.

Integrative Biology Undergraduate Mentorship Program Fall 2018 – Spring 2019

Selected as one of the first graduate mentors for the department's Integrative Biology Undergraduate Mentorship Program (IBUMP); provided advice and support for a genderqueer student navigating the department and OSU.

Delegate, AFT-Oregon Convention Spring 2019, Spring 2021

Elected twice as a union delegate to attend the statewide American Federation of Teachers Convention in Sun River, Oregon, and virtually due to the COVID-19 pandemic. As part of the human rights and community relations subcommittee in 2019 and the resolutions subcommittee in 2021, helped to generate, amend, and pass resolutions on a wide variety of social justice topics.

Steward of the Year, Coalition of Graduate Employees Spring 2019

Elected as steward of the year for graduate labor union.

Bargaining Team, Coalition of Graduate Employees Fall 2019 – Spring 2020

Served on the union bargaining team and helped renegotiate the collective bargaining agreement covering all graduate employees at OSU. As head of the data collection and analysis team, gathered and analyzed institutional and union data and prepared summaries and briefs during bargaining.

Delegate, AFT National Convention Summer 2020
Elected as a CGE delegate to attend the national American Federation of Teachers Convention, held online due to the COVID-19 pandemic. Voted on proposed resolutions to change union policy at the national level.

CGE Representative, Fisheries & Wildlife Graduate Student Association Fall 2020 – Fall 2021
Elected to the board of FWGSA; duties included event planning, fundraising and financial stewardship of the association, representing members of the department at union events, and effectively communicating changes in union policy to departmental membership.

Graduate Mentor, OSU BEG-SUFA Fall 2020 – Spring 2021
Selected as a graduate mentor for an undergraduate student pursuing an independent project in parasite ecology. Created online training materials including briefs, protocols, and videos for conducting ecological parasitology studies remotely during the COVID-19 pandemic. Worked with the student to plan and execute a field study of trematode parasites, analyze data, and generate a poster summarizing results, to be presented by the student at OSU RAFWE in Spring 2021.

Committee Chair, Fisheries & Wildlife Student Promotion Committee Fall 2020
Served as chair on a graduate student review committee for faculty promotion of Associate Professor to Assistant Professor. Coordinated other graduate employees; reviewed and evaluated candidate materials, peer teaching reviews, and letters of recommendation; and developed final decision letter.

Vice President of Communications, CGE Winter 2021 – Summer 2021
Served on the Executive Council of the Coalition of Graduate Employees, the elected body that governs day-to-day union operations. Duties included managing social media presence, coordinating public outreach campaigns, creating and publicizing union events and activities, writing and disseminating biweekly union newsletter, and voting on union policy and practices at council meetings.

Graduate Mentor, OSU SURE, URSA, and NSF STEM Leaders Winter 2020 –
Mentored undergraduate researchers as they pursued a variety of independent projects related to dissertation research, including a literature review on environmental DNA applications for parasitology, dissection of preserved snail specimens to validate cercarial shedding methodology, and methods-testing for culturing of biofilms in support of manipulative experiments on the effect of trematode parasitism on snail grazing. Created online training materials including briefs, protocols, and videos for conducting ecological parasitology studies remotely during the COVID-19 pandemic.