Halley McVeigh

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EDUCATION

Master of Environmental Science and Management, 3.93 GPA (Expected June 2022)
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Specialization: Coastal Marine Resources Management
Focus: Strategic Environmental Communication and Media
Highlighted Coursework: Coastal Marine Policy & Management, Natural Resource Economics, Applied Marine Ecology, Data Analysis, Equity and the Environment, Economics of Environmental Management
Leadership: Co-Chair Bren Net Impact Chapter
Master's Group Project: *Assessing the Value of Environmental Information for Shellfish Aquaculture Farmers in British Columbia*, Client: Scoot Science; Developed a framework model for assessing the value of environmental information for farm level management decisions for aquaculture operations (4/21–6/22)

Bachelor of Science in Biology, Minors in Chemistry and Environmental Studies, 3.62 GPA (December 2015)
Warren Wilson College, Asheville, NC

Thesis: *Developmental effects of ocean acidification conditions and elevated temperature on* Homarus americanus *larvae*
Honors/Involvement: Dean's List, Sigma Xi member of the University of North Carolina-Asheville Chapter, Treasurer of the Western North Carolina Chapter of the Society of Conservation Biology

COASTAL RESOURCE EXPERIENCE

Ocean Analytics, Santa Barbara, CA (11/21–present)
Fishery Research Consultant

- Researched and synthesized harvest control rules (HCRs) for all federally managed fisheries across the 46 U.S. Fishery Management Plans
- Examined the HCR typologies across regions and their implications for climate resilience
- Provided recommendations for updating HCRs to improve resilience of fisheries to climate change

Environmental Markets Lab (emLab), UCSB, Santa Barbara, CA (10/21–present)
Graduate Student Researcher

- Collected and processed data on global ITQ fisheries and access agreements to examine the distribution of benefits from fisheries access agreements

Scoot Science, Santa Cruz, CA (Remote) (7/21–9/21)
Market Research Intern

- Researched the shellfish aquaculture industry in British Columbia to inform projects and direction into new sector for Scoot Science
- Developed resources and protocols for discovery calls and integration of new potential clients and data into existing framework
- Interviewed First Nations rights and title holders and other regional stakeholders in BC about perceptions and experiences with shellfish aquaculture to better inform data analysis and market landscape
- Completed the course Working Effectively with Indigenous Peoples - Indigenous Relations Academy

Trident Seafoods, Naknek, AK (6/20–8/20)
Commercial Fisherman

- Crewed on the *F/V* Homeward in Bristol Bay, AK, drift-gillnetting commercially for wild sockeye salmon
- Operated 32' Kvichak vessel to successfully land and sell over 140,000 pounds of sustainably harvested sockeye salmon under frequently dangerous circumstances and a round-the-clock schedule

- Continued –

Community Shellfish, Bremen, ME (2/20–6/20)
Oyster Operations Assistant
- Designed and engineered new upweller systems to increase nursery capacity to 500,000 shellfish seed
- Planned and facilitated weekly, public events in partnership with local businesses to increase market base

Mook Sea Farm, Walpole, ME (10/17–12/19)
Hatchery Technician
- Reared over 120 million Eastern oysters (*Crassostrea virginica*) from spawn to seed yearly in the hatchery to be sold and grown out to marketable oysters at aquaculture operations along the Atlantic coast
- Analyzed culture methods of heterotrophic and phototrophic microalgae and increased productivity by over 300% to sustain shellfish in the hatchery and to be sold as feed in a new diversification of company revenue
- Developed and executed R&D projects in the field and in a laboratory setting focused on climate resilience of shellfish aquaculture in addition to increasing capacity of hatchery and market oyster production

Virginia Institute of Marine Science, Gloucester Point, VA (4/17–9/17)
Oyster Aquaculture Training Program Participant
- Reared and maintained numerous genetic lines of diploid and tetraploid Eastern oysters in the hatchery and the field as part of the Aquaculture Genetics & Breeding Technology Center's extensive breeding program
- Selectively bred oysters to improve disease resistance and desirable traits for industry broodstock

Bigelow Laboratory for Ocean Sciences, East Boothbay, ME (5/15–8/15)
REU Intern
- Formulated and executed an independent research project examining the life-history effects of American lobster (*Homarus americanus*) larval development under elevated oceanic temperature and pCO_2 conditions
- Contributed to a project by the Balch and Fields labs focused on the effects of ocean acidification on copepods (*Calanus finmarchicus*)

ADDITIONAL EXPERIENCE

Conservation Intern, **Wild South**, Asheville, NC (1/16–6/16)
- Planned, publicized, and facilitated volunteer opportunities and fundraising events including the annual Roosevelt-Ashe Conservation Awards Gala for the Southeast with over 100 attendees
- Maintained and analyzed donor database and wrote quarterly newsletters to enhance fundraising efforts
- Carried out field monitoring surveys on Eastern hemlocks, bog turtles, and the Eastern hellbender

Teaching Assistant and Peer Group Leader, Warren Wilson College, Asheville, NC (8/15–12/15)
- Helped lead and support undergraduate students in the First Year Seminar course "Restoring Nature: Science and Community Conservation"

Volunteer Instructor, EcoTeam of Warren Wilson College, Asheville, NC (9/14–10/15)
- Instructed and facilitated students in the third grade at local elementary schools in weekly, hands-on environmental lessons in the classroom

PRESENTATIONS & PUBLICATIONS

Presentations: "Developmental effects of ocean acidification conditions and elevated temperature on *Homarus americanus* larvae" ASLO Ocean Sciences Meeting, New Orleans, LA, February 2016.
Publications: Waller, J.D., R.A. Wahle, H. McVeigh, and D.M. Fields. Linking rising pCO_2 and temperature to the larval development and physiology of the American lobster (*Homarus americanus*). *ICES Journal of Marine Science* 74.4 (2017): 1210-1219.

SKILLS, AWARDS, & CERTIFICATIONS

Computer: Microsoft Office Suite, R/RStudio, Shiny, GitHub, QGIS **| Languages:** Conversational Spanish
Awards: National Science Foundation and Popular Science Magazine 2016 Vizzies People's Choice Award "American Lobster Larva", LAURELS 2015 from Warren Wilson College for best thesis poster award
Certifications: PADI Open Water dive certification