

Catrin Wendt

Master of Science Candidate, School of Aquatic & Fishery Sciences
University of Washington, Box 335020, Seattle, Washington 98195

Website: catrinwendt.com

Email: catrin.a.wendt@gmail.com

Education

- Anticipated* M.S., Aquatic and Fishery Sciences, University of Washington
Spring 2020 Thesis: Investigating *Ichthyophonus* spp. in a known hotspot
Advisor: Dr. Chelsea Wood
- 2016 B.S., Marine Science, California State University Monterey Bay
Senior Capstone: Quantifying human disturbance at Point Lobos Marine Reserve

Funding, Awards, and Recognitions

- 2020 [College Sustainability Fund, University of Washington](#)
- 2016 Louis Stokes Alliance for Minority Participation program (LSAMP)
- 2015 [Ronald E. McNair Post-Baccalaureate Scholar](#)
- 2015 [Undergraduate Research Opportunities Center \(UROC\) Scholar](#)
- 2015 2nd Place Oral Presentation. Fall Research Showcase: Does poor water quality due to eutrophication promote an invasive species?

Research History

2017 - 2020 **Research Assistant**

School of Aquatic and Fishery Sciences, University of Washington. Seattle, WA.

Principal Investigators: Dr. Chelsea L. Wood & Dr. Paul K. Hershberger

Project: Assessment of marine water and sediment samples for *Ichthyophonus* DNA

- Optimized environmental DNA methods to quantify pathogenic parasite presence in a remote field site
- Quantified low-template DNA samples with qPCR
- Prepared low-template eDNA samples for sequence-validation
- Field collection of water and sediment samples for eDNA processing

Project: Investigating *Ichthyophonus* spp. in a known hotspot

- Investigated drivers of *Ichthyophonus* disease in juvenile herring in WA and AK
- Identified a disease transmission hotspot using live-culture parasite analysis
- Used advanced linear models to analyze spatio-temporal pathogenic parasite prevalence data
- Trained and advised undergraduate volunteers in field and lab methods

2014 - 2016 **McNair Scholar**

Ecosystem Electronics Laboratory, CSU Monterey Bay. *Seaside, CA*

Principal Investigator: Dr. Steve Moore

Project: Building and testing underwater camera systems for sustainable fisheries research in a remote atoll

- Designed and field tested a baited remote underwater camera system
- Deployed ROVs to sample mesophotic coral reef fish communities
- Operated boat or tow cam during data collection
- Repaired, maintained, and deployed stationary long-deployment camera systems

2015 **Undergraduate Researcher**

Ocean Science Research Experience for Undergraduates at Monterey Bay. Seaside, CA
Principal Investigators: Dr. Kirsten Wasson & Dr. Rikke Jeppesen

Project: European green crab (*Carcinus maenas*) distribution in the Elkhorn Slough

- Created a novel *C. maenas* growth curve for the Elkhorn Slough region
- Collected and processed water samples for long term monitoring surveys
- Conducted sea otter behavior surveys

2012 - 2014 **Research Volunteer**

Bodega Marine Laboratory, University of California Davis. Bodega, CA

Principal Investigator: Dr. Steven Morgan

- Trained and led new volunteers in doctoral candidate's data collection
- Maintained data collection in a long-term manipulated intertidal field experiment

Publications ⁺ indicates advised undergraduate co-author

2020 Fiorenza EA, Wendt CA, Dobkowski K, King T, Pappaionou M, Rabinowitz P, Samhoury J, Wood CL. It's a wormy world: meta-analysis reveals long-term change in the global abundance of parasitic anisakid nematodes in fishes and invertebrates. *Global Change Biology*. 26(5): 2854-2866. <https://doi.org/10.1111/gcb.15048>

In Prep Wendt CA, Friedman CS, Purcell MK, Hershberger PK, Wood CL. Assessment of marine water and sediment samples for *Ichthyophonus* DNA.

In Prep Wendt CA, Hershberger PK, Horn RF⁺, Friedman CS, Wood CL. *Ichthyophonus* in juvenile herring: Investigating a transmission hotspot.

Invited Presentations

2018 Wendt CA. Do fish processing plants act as reservoirs for disease? WA Cooperative Fish & Wildlife Annual Meeting, Seattle, WA, USA. (*Oral Presentation*)

2016 Wendt CA. Biodiversity in decline: how human behavior promotes invasive species. TEDdy Talks @ CSUMB, Seaside, CA, USA. May 17, 2016. (*TED-style talk*)

Contributed Presentations ^{*} indicates award received

2018 Ecological patterns of *Ichthyophonus* sp. infection in age zero pacific herring. Western Society of Naturalists 99th Annual Meeting, Tacoma, WA, USA. (*Oral Presentation*)

2017 A curious case of herring disease in Cordova, Alaska. WA Cooperative Fish & Wildlife Annual Meeting, Seattle, WA, USA. (*Poster presentation*)

2016 Designing underwater video systems to study a remote mesophotic coral reef ecosystem. Spring 2016 Showcase: Celebrating Inquiry, Seaside, CA, USA. (*Lightning talk*)

2016 Remote research on a budget: designing video systems for research in the Ulithi atoll. Western Society of Naturalists 97th Annual Meeting, Monterey, CA, USA. (*Oral*

2015* Does poor water quality due to eutrophication promote an invasive species? Fall Research Showcase. Seaside, CA, USA. (*Oral Presentation*)

2015 European green crab distribution as an effect of water quality. Western Society of Naturalists 96th Annual Meeting, Sacramento, CA, USA. (*Oral Presentation*)

Teaching History

- 2018 **Teaching Assistant**
School of Aquatic and Fishery Sciences, University of Washington. *Seattle, WA*.
Lead Instructor: Dr. Chelsea L. Wood
Course: Biology of Shellfishes (FISH 310)
- Led a lab session of 22 students, including providing opening lecture and guidance through lab activities
 - Provided students feedback on research proposals to help them construct a feasible and impactful project
 - Graded lab reflections
- 2017 **Project Coordinator in Curriculum Development**
Cooperative Learning Center, CSU Monterey Bay. *Seaside, CA*
Principal Investigator: Dr. Arlene Haffa & Jon Detka
Project: Improving student success in agriculture-related sciences with academic support and career mentoring
- Developed and archived training and teaching materials used as proof-of-concept to increase program funding from CSU Chancellor's Office
 - Observed Supplemental Instruction leaders and provide feedback in session plans
- 2016 **Instructional Student Assistant**
School of Natural Sciences, CSU Monterey Bay. *Seaside, CA*
Lead Instructor: Dr. Suzanna Worcester
Course: Ecology, Evolution, Biodiversity & Plant Physiology (BIO 211)
- Assisted with inverted-classroom teaching approach to course lectures
 - Responsible for grading and providing feedback for in-class activities and exam essay-style questions, including the final exam
- 2015 - 2016 **Supplemental Instruction Leader**
Cooperative Learning Center, CSU Monterey Bay. *Seaside, CA*
Lead Instructor: Dr. Suzanna Worcester
Course: Ecology, Evolution, Biodiversity & Plant Physiology (BIO 211)
- Developed teaching materials to reinforce course concepts using pedagogical theory
 - Independently planned and led group sessions for up to 20 students

Mentorship

- 2018 - Present **Ryan Horn:** Capstone Student, University of Washington
- 2019 - 2020 **Delaney Lawson:** Undergraduate Volunteer, University of Washington
- 2019 - 2020 **Sophie Brooks:** Undergraduate Volunteer, University of Washington
- 2019 - 2020 **Elliott Chinn:** Undergraduate Volunteer, University of Washington
- 2019 - 2020 **Megan Ewig:** Undergraduate Volunteer, University of Washington
- 2019 - 2020 **Kahana Pietsch:** Undergraduate Volunteer, University of Washington
- 2019 **Veronica Torres:** McNair Scholar, UC Santa Barbara
- 2018 - 2019 **Emily Oven:** Capstone Student, University of Washington
- 2018 **Karissa Shutt:** Undergraduate Volunteer, University of Washington

Outreach

- 2017 **Students Explore Aquatic Sciences (SEAS) Member**
University of Washington. Seattle, WA
Member of an outreach program that provides classrooms in the Seattle area with hands-on science activities designed around current department research.
- 2015 **Watsonville High School Guest Speaker**
Watsonville High School. Watsonville, CA
Invited to give a talk about the scientific process and a career in STEM, inspired by the Ulithi research expedition
- 2015 **Environmental Interpretation Guest Speaker**
California State University Monterey Bay. Seaside, CA
Invited to give a National Association of Interpreters presentation as an example of a successful oral presentation
- 2015 **Undergraduate Research Opportunities Center Ambassador**
California State University, Monterey Bay (CA)
Served as a representative for the UROC Scholars program at university open houses and accepted student orientations
- 2015 **Recruitment in Science Education (RISE)**
Marina High School. Marina, CA
Invited to serve on a panel to share advice and inspire first generation high school students from low-income and underrepresented communities to pursue higher education, specifically in STEM fields.

Service

- 2017 - 2019 **Fisheries Interdisciplinary Network of Students, University of Washington**
Union Representative
- 2018 - 2020 **United Auto Workers Local 4121**
Region I Union Steward
Defense Committee Elected Member

Certifications

ESRI GIS Certification
Trimble GPS Certification
CRLA Master Tutor Certification
Small Boat License (CA)

Software and Coding Languages

R coding and scripting
GitHub
Unix/Linux Systems and command line
ArcMap
Pathfinder Office
MySQL databases
Python scripting
JMP Statistical Software