

EDUCATION

PhD Candidate, Dept. of Ecology, Evolution, and Marine Biology, Chancellor's Fellow, NSF Graduate Research Fellow, University of California, Santa Barbara 2018 - Current

Master of Arts, Ecology, Evolution and Marine Biology 2023

Bachelor of Arts, Integrative Biology (Ecology, Evolution, and Organismal Biology), High Distinction, University of California, Berkeley, GPA: 3.94 2017

Associate of Arts (2 of 4 degrees), Chemistry, Biology with Highest Honors, Santa Barbara City College 2015

PUBLICATIONS

13. Schiettekatte N, Casey JM, Brandl SJ, Mercière A, Degregori S, Burkepile D., **Van Wert JC**, Villéger S, Parravicini V. The role of fish feces for nutrient recycling on coral reefs. *Oikos*. In press.
12. **Van Wert JC**, Hendriks B, Ekström AE, Patterson DA, Cooke SJ, Hinch GS, Eliason EJ. Population variability in thermal performance of pre-spawning adult Chinook salmon. *Conservation Physiology*. In press.
11. Eliason EJ, Muir CA, **Van Wert JC**, Ekström AT. Thermal sensitivity of cardiac performance: Implications for sustainable fisheries. *Encyclopedia of Fish Physiology*. In press.
10. Guerra AS, **Van Wert JC**, Haupt, AJ, White TD, Lecchini D, Eliason EJ, McCauley DJ, Caselle JE. (2023). Diverse intraspecific differences between a shoaling and solitary coral reef fish. *Ecology and Evolution*.
9. Rogers LS, **Van Wert JC**, Mensinger AF. (2022). Utricular sensitivity to multimodal inputs in the toadfish, *Opsanus tau*. *J Neurophysiol*.
8. Eliason, EJ, **Van Wert JC**, Schwieterman GD. (2022). Fish Physiology 39A: Conservation Physiology for the Anthropocene – A Systems Approach. Chapter 4: Applied Aspects of the Cardiorespiratory System.
7. Rempel H., Siebert A, **Van Wert JC**, Bodwin KN, Ruttenberg BI. (2022). Feces consumption by nominally herbivorous fishes in the Caribbean: an underappreciated source of nutrients? *Coral Reefs*.
6. Hardison E, Kraskura K, **Van Wert JC**, Nguyen T, Eliason EJ. (2021). Diet mediates thermal performance traits: implications for marine ectotherms. *J Exper Biol*.
5. **Van Wert JC**, Weinstein S, Kinsella M, Tkach V, and Lafferty KD. (2019). Southern California and range-wide raccoon gastrointestinal helminth database. *Ecol*.
4. Weinstein S, **Van Wert JC**, Kinsella M, Tkach V, Lafferty KD. (2019). Infection at an ecotone: cross system foraging increases satellite parasites, but decreases core parasites in a coastal raccoon population. *Ecol*.
3. **Van Wert JC** and Mensinger AF. (2019). Seasonal and daily patterns of the mating calls of the oyster toadfish, *Opsanus tau*. *Biol Bull*. 236(2).
2. Mensinger AF, **Van Wert JC**, and Rogers LS. (2019). Lateral line sensitivity in free swimming toadfish, *Opsanus tau*. *J Exper Biol*.
1. Rogers LS, **Van Wert JC**, and Mensinger AF. (2017). An implantable two axis micromanipulator made with a 3D printer for recording neural activity in free-swimming fish. *J Neurosci Methods* 288:29-33.

CONFERENCE
PRESENTATIONSOral

- *For some, a good run while it lasted: variation in thermal tolerance among Chinook salmon.* **Van Wert JC**, Hendriks BJ, Ekström A, Patterson DA, Cooke SJ, Hinch SG, Eliason EJ. Ecology, Evolution and Marine Biology Graduate Student Symposium. Virtual. Feb. 2021.
- *Population-specific variability in the thermal performance of Fraser River Chinook salmon.* **Van Wert JC**, Hendriks BJ, Ekström A, Patterson DA, Cooke SJ, Hinch SG, Eliason EJ. Society for Integrative and Comparative Biology Annual Conference. Virtual. Jan. 2021.
- *Population-specific vulnerability to warming temperatures in Fraser River Chinook Salmon.* **Van Wert JC**, Hendriks BJ, Ekström A, Patterson DA, Cooke SJ, Hinch SG, Eliason EJ. The American Fisheries Society Annual Conference. Best Student Presentation Finalist. Virtual. Sep. 2020.
- *The effect of self-generated movement on lateral line sensitivity in the toadfish, Opsanus tau.* **Van Wert JC**, Rogers LS, Mensinger AF. Society for Integrative and Comparative Biology Annual Conference. San Francisco, CA. Jan. 2018.

- *Metabolic responses of photosynthetic sea slugs to a changing environment.* **Van Wert JC.** University of California, Berkeley Research Symposium. Berkeley, CA. Dec. 2016.
- *The effects of temperature, intraspecific, and environmental noise on oyster toadfish (*Opsanus tau*) mating calls.* **Van Wert JC,** Mensinger AF. Marine Biological Laboratory Undergraduate Symposium. Woods Hole, MA. Aug. 2015.
- *Characterizing the parasite community in local raccoons (*Procyon lotor*).* **Van Wert JC,** Weinstein SB, Kuris AM. University of California, Santa Barbara Undergraduate Summer Symposium. Santa Barbara, CA. Aug. 2014.

Poster

- *Jamming avoidance response in oyster toadfish, *Opsanus tau*.* **Van Wert JC,** Mensinger AF. Society for Integrative and Comparative Biology Annual Conference. New Orleans, LA. Jan. 2017.
- *Chronically implanted micromanipulator for recording neural activity from free-swimming fish.* Mensinger AF, Rogers LJ, **Van Wert JC.** Society for Integrative and Comparative Biology Annual Conference. New Orleans, LA. Jan. 2017.
- *The effects of temperature, intraspecific, and environmental noise on oyster toadfish (*Opsanus tau*) mating calls.* **Van Wert JC,** Mensinger AF. Society for Integrative and Comparative Biology Annual Conference. Portland, OR. Jan. 2016.

Contributed

- *Hypoxia lowers cardiac thermal limits in a marine teleost (*Girella nigricans*).* Schwieterman G, Hardison E, Cox G, **Van Wert JC,** Birnie-Gauvin K, Eliason EJ. Society for Experimental Biology. Montpellier, France. Jul 2022.
- *Impairing cardiac oxygen supply in swimming coho salmon compromises their heart function and thermal tolerance to acute warming.* Ekström A, **Van Wert JC,** Hendriks B, Gilbert M, Cooke S, Farrell A, Hinch S, Eliason EJ. International Congress on the Biology of Fish. Montpellier, France. Jul 2022.
- *Rapid acclimation capacity at the tissue level in a salmonid.* Birnie-Gauvin K, **Van Wert JC,** Mayer N, Hendriks B, Hinch S, Eliason E. International Congress on the Biology of Fish. Montpellier, France. Jul 2022.
- *Life stage- and sex-specific differences in the upper thermal tolerance of Kokanee salmon (*Oncorhynchus nerka*).* Mayer N, **Van Wert JC,** Birnie-Gauvin K, Hendriks B, Hinch S, Eliason E. Canadian Conference for Fisheries Research. Vancouver, BC, Canada. Feb 2022.
- *Diet alters thermal performance traits in a marine omnivorous fish (*Girella nigricans*).* The Society for Experimental Biology. Hardison E, Kraskura K., **Van Wert JC,** Ngyuen T, Eliason EJ. Virtual. 2021.
- *Coprophagy by herbivorous fishes in the Caribbean: Quantifying species-specific rates and nutritional drivers.* International Coral Reef Symposium. Siebert A, Rempel H, **Van Wert JC,** Ruttenberg B. Virtual. 2020.
- *Multimodal sensory integration of the utricle in freely swimming toadfish, *Opsanus tau*.* Rogers LS, **Van Wert JC,** Mensinger AF. Society for integrative and Comparative Biology Annual Conference. Austin, TX. Jan. 2020.
- *Long term PAM to investigate temporal and anthropogenic effects on oyster toadfish, *Opsanus tau* mating vocalizations.* Mensinger AF, Putland RL, **Van Wert JC,** Mackiewicz AG. Acoustical Society of America. San Diego, CA. Dec. 2019.
- *Infection at an ecotone: Cross-system foraging increases satellite parasites, but decreases core parasites in a coastal raccoon population.* Weinstein S, **Van Wert JC,** Kinsella M, Tkach V, Lafferty KD. American Society of Parasitologists. Rochester, NY. Jul. 2019.
- *Lateral line activity during self-generated movement in free swimming toadfish, *Opsanus tau*.* Mensinger AR, **Van Wert JC,** Rogers LS. J.B. Johnston Club for Evolutionary Neuroscience Annual Meeting. San Diego, CA. Nov. 2018.
- *The Effect of Self-Generated Movement on Lateral Line Sensitivity in the Toadfish, *Opsanus tau*.* Rogers LS, **Van Wert JC,** Mensinger AF. American Fisheries Society, Atlantic City, NJ. Aug. 2018.
- *The effect of self-generated movement on lateral line sensitivity in the toadfish, *Opsanus tau*.* Rogers LS, **Van Wert JC,** Mensinger AF. MN Chapter of the American Fisheries Society, St. Cloud, MN. 2018.
- *Complex acoustic signaling in the toadfish, *Opsanus tau*.* Mensinger AF, **Van Wert JC.** Acoustical Society of America. Boston, MA. June 2017.

COLLABORATIONS AND RESEARCH EXPEDITIONS	University of British Columbia – Kootenays, BC, Canada	
	<ul style="list-style-type: none"> Measured the thermal tolerance and metabolic performance of Kokanee salmon throughout BC, Canada using streamside respirometry Collaborators: S. Hinch, Freshwater Fisheries Society 	
	Simon Fraser University – Fraser River, BC, Canada	2022
	<ul style="list-style-type: none"> Deployed radiotags on Pacific Salmon along the Fraser River Collaborators: D. Patterson, K. Birnie-Gauvin, Department of Fisheries and Oceans Canada 	
	Carleton University – Ontario, Canada	2021
	<ul style="list-style-type: none"> Measured cardiac performance in migrating Pacific salmon Collaborators: A. Ekström, S. Cooke, W. Twardek 	
	University of British Columbia – Cultus Lake Laboratory, BC, Canada	2019
	<ul style="list-style-type: none"> Assessed the function of the heart during warming in coho salmon Collaborators: A. Ekström, D. Patterson, S. Hinch, S. Cooke, M. Gilbert 	
	University of California – Mo’orea, French Polynesia	2017, 2019
	<ul style="list-style-type: none"> Investigated fecal nutrient input across functional groups of coral reef fish Collaborators: N. Schiettekatte, D. Burkepille 	
	Marine Biological Laboratory of Woods Hole – MA, USA	2015 – 2018
	<ul style="list-style-type: none"> Investigated fish sensory systems and behavior using neuroscience and bioacoustics Collaborators: A. Mensinger 	
AWARDS AND HONORS	P.E.O. Scholar Award	2023
	Folds of Honor Scholarship	2022
	Umihiko Hoshijima Graduate Award for Ocean Conservation	2022
	American Fisheries Society J. Frances Allen Scholarship Award	2022
	American Fisheries Society Eugene Maughan Graduate Student Scholarship	2022
	American Fisheries Society Climate Ambassador	2021-2022
	SICB Charlotte Magnum Student Support Award	2021
	SICB Public Affairs Committee Student Intern	2021
	Finalist in American Fisheries Society Best Student Presentation Competition	2021
	NSF REU at the Marine Biological Laboratory, Woods Hole	2015
	Santa Barbara City College Highest Honors	2015
	Biological Sciences Outstanding Student of the Year, Santa Barbara City College	2015
	Center for Science and Engineering Partnerships Summer Internship, UCSB	2014
	Plant Biology Student of the Year, Santa Barbara City College	2014
INVITED TALKS	Neural Systems and Behavior, University of Minnesota, Duluth	2023
	Kokanee GeneSolve Annual Meeting, University of British Columbia	2022
	Pacific Salmon Ecology and Conservation Lab, University of British Columbia	2021
	Diving Club, Santa Barbara City College	2021
	SciTrek Eliason Lab Research, UCSB	2020
	Animal Physiology EEMB 157B, Digestion, UCSB	2020
FELLOWSHIPS AND GRANTS	NSF INTERN Supplemental Funding*	2023
	Schmidt Mentorship Fellowship*	2023
	Society of Experimental Biology Company of Biologists Travel Grant	2022
	Graduate Student Association Travel Grant, UCSB	2020, 2022
	Technology Grant*	2022
	Individualized Professional Skills Grant, UCSB	2019
	Nejat B. Ezal Fellowship*	2019
	NSF Graduate Research Fellowship**	2018
	UCSB Chancellor’s Fellowship**	2018
	Biology Travel Grant, NSF*	2017
	REU Student-Mentor Travel Scholarship, NSF*	2016
	William Olivarius Scholarship, Santa Barbara City College*	2015
	Joe W. Dobbs Scholarship, Santa Barbara City College	2014

*Indicates grants of \$1000 or greater; **indicates \$100,000 or greater

REVIEWED JOURNALS	Fish Physiology Book Chapter (1), Journal of Thermal Biology (1), Animal Behaviour (1), ICES Journal of Marine Science (1), Physiological and Biochemical Zoology (1), Conservation Physiology (1), Canadian Journal of Fisheries and Aquatic Sciences (1)	
PROFESSIONAL MEMBERSHIPS AND COMMITTEES	Diversity, Equity, Inclusion and Wellness at UCSB AFS J. Frances Allen Award Committee Chair Fisheries Society of the British Isles Society for Experimental Biology American Fisheries Society Sigma Xi	2020 – current 2022 – current 2022 – current 2021 – current 2018 – current 2021 – current
WORKSHOPS	<u>Hosted:</u> <ul style="list-style-type: none"> Estuarine Fish Ecology with Santa Barbara City College Scientific Illustration Workshop at UCSB <u>Attended:</u> <ul style="list-style-type: none"> Microaggressions Professional Training on Mutual Respect UC Fieldwork Toolkit Leadership Training Series Building a Better Fieldwork Future: Preventing and Managing Sexual Harassment in the Field COMPASS science communication workshop Schmidt Ocean Institute science communications workshop Field respirometry workshop for government scientists, stakeholders, and academics 	2022 2019 2022 2021 2021 2021 2021 2019 2018, 2019
TEACHING AND MENTORSHIP	<u>Instruction</u> <ul style="list-style-type: none"> Teaching assistant, Transfer Seminar Course, UCSB Teaching assistant, Methods in Field Biology, Santa Barbara City College Marine Science Naturalist, Camp SEA Lab, Monterey, CA Laboratory Teaching Assistant, Santa Barbara City College <u>Instructional Development</u> <ul style="list-style-type: none"> Center for Innovative Teaching, Research, and Learning Seminar Series Mentor Training: Learning Across Identities, Experiences, and Cultures <u>Undergraduate Mentorship</u> Madison Feenstra, Yvette Gaytan, Maya Gorgas (now M.S. from Georgetown), Haley Glassman (now Ph.D. student at Florida International University), Robert Beard, Chandler Campbell, Fatima Verduzco-Urbe	2021 2015, 2019 2018 2015 2020 2020 Madison Feenstra, Yvette Gaytan, Maya Gorgas (now M.S. from Georgetown), Haley Glassman (now Ph.D. student at Florida International University), Robert Beard, Chandler Campbell, Fatima Verduzco-Urbe
COMMUNITY ENGAGEMENT	<ul style="list-style-type: none"> School for Scientific Thought lab tour AFS Hutton Pen Pal Point person for UCSB EEMB Undergraduate Open House Invited student speaker EEMB 502 Teaching Techniques Science Advisor for Whale Tale Grant, San Jose, CA Science as a Career Outreach Project Experiment (SCOPE), Ventura, CA (5 high school visits) Science-Line Scientist CURIE-osity Girls Inc. Site organizer and leader Invited student speaker EEMB 508 Seminar SACNAS Statement of Purpose Feedback Session American Fisheries Society Graduate Student Panel Speaker Invited graduate student speaker (SBCC Biology Club, UCSB Freshman Seminar, University of Minnesota Duluth) Ocean Day Volunteer, Santa Barbara, CA Puna Reo Elementary site visit volunteer, Mo'orea, French Polynesia Family Ultimate Science Exploration (FUSE) volunteer California Coastal Commission education intern 	2023 2022 2022 2022 2020 - Current 2020 - Current 2019 - 2022 2019 - 2022 2021 2021 2021 2019 2019 2019 2017 2017

CERTIFICATIONS

CPR and First Aid, Wilderness First Aid, EPI-pen, California Boater's License, AAUS SCUBA, NAUI Search and Rescue, PADI Advanced Open Water, 70 logged dives.

SCIENCE
COMMUNICATION

4. The marvel-ous world of science. 2022. <https://www.newswise.com/articles/the-marvel-ous-world-of-science>
3. Who's dam busy? 2021. <https://sicb.org/whos-dam-busy/>
2. Subtle changes beneath the terrain: An interview with Dr. Morgan Kelly. 2021. <https://integrativeandcomparativebiology.wordpress.com/sicb-icb-mangum-student-volunteers-sci-comm/>
1. Elephant seals: A conservation success story in your backyard. Published blog post for California Coastal Commission. 2017. <https://thecacoast.tumblr.com/post/157913187162/elephant-seals-a-conservation-success-story-in>