

# AMANDA E. ARNOLD, PhD Student

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## EDUCATION

**SIMON FRASER UNIVERSITY BURNABY, BC**

**Ph.D. of Biological Science, Earth to Oceans Research Group**

**IN PROGRESS**

Advisor: Dr. Nicholas Dulvy

Thesis: *Prioritizing future areas for the protection of sharks and rays using spatial ecology*

**UNIVERSITY OF WASHINGTON SEATTLE, WA**

**Master of Marine Affairs, School of Marine and Environmental Affairs**

**2021**

Advisor: Dr. Patrick Christie

Thesis: *Best Practices for Assessing Tourism Carrying Capacity in Island Marine Protected Areas*

**Climate Change Science Certificate, Program on Climate Change**

**2021**

Advisor: Miriam Bertram

Capstone: *Ocean Acidification Learning Module for Middle Schoolers*

**UNIVERSITY OF BRITISH COLUMBIA VANCOUVER, BC**

**Bachelor of Science, Natural Resource Conservation**

**2018**

*Global Perspectives with Honours*

Capstone: *Effect of National Parks on Rural Wealth in Tanzania*

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## PEER-REVIEWED PUBLICATIONS

**IN REVIEW** Dulvy, N. K., Pacoureau, N., M., Aitchison, R. M., **Arnold, A.**, Booth, H., Charvet, P., Finucci, B., Mull, C. G., Rigby, C. L., Seidu, I., Sherman, C. S., VanderWright, W. J., Fordham, S. V., Simpfendorfer C. A. (In Review). Bending back the curve of shark and ray biodiversity loss. *Nature Reviews Biodiversity*.

**2018** Higham, T.E., Seamone, S.G., **Arnold, A.**, Toews, D., & Janmohamed, X. (2018) The ontogenetic scaling of functional morphology in the spotted ratfish, *Hydrolagus coliei* (Chondrichthyes: Chimaeriformes): fins, muscles, and locomotion. *Journal of Morphology*, 90(2), 681-69.

**2014** Lenz, E. A., Brown, D., Didden, C., **Arnold, A.**, & Edmunds, P. J. (2014). The distribution of hermit crabs and their gastropod shells on shallow reefs off St. John, US Virgin Islands. *Bulletin of Marine Science*, 90(2), 681-69.

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## OTHER PUBLICATIONS

**2021** **Arnold, A.**, Byrnes, K., Matteri, E. "Uncovering How Eelgrass Protects Washington from Ocean Acidification" *Climate Science for the Classroom* edited by Bertram and Olson, 2021. (Book Chapter). <https://uw.pressbooks.pub/climate/chapter/eelgrass-ocean-acidification-and-washington/>

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## PRESENTATIONS & POSTERS

- 2024**     **Arnold, A.**, Matsushiba, J., & Dulvy, N., "Where do sharks stand? Evaluating marine protected area coverage across the species ranges of shark and rays", 7<sup>th</sup> International Marine Conservation Congress (2024) (Presentation).
- 2024**     **Arnold, A.**, Matsushiba, J., & Dulvy, N., "Where do sharks stand? Evaluating marine protected area coverage across the species ranges of shark and rays", Northeast Pacific Shark Symposium VI (2024) (Presentation).
- 2011**     Didden, C., **Arnold, A.**, Sella C., Brown D., & Edmunds P.J., "The Distribution of *Cerithium litteratum* along the coast of St. John, US Virgin Islands, and the use of its shells by hermit crabs", The Western Society of Naturalists 92nd Annual Meeting (2011) (Poster).

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## PROFESSIONAL EXPERIENCE

- Aquarium Biologist – *Waikīkī Aquarium, Honolulu, HI*** **January – April 2022**
- + Responsible for husbandry of various tropical fishes and invertebrates. Target fed predator species (e.g. sharks, groupers) and cleaned their tanks via SCUBA. Experience in moving large fish, quarantine, & acclimatization.
- Lead Teaching Assistant – *UW School of Aquatic and Fisheries Science, Seattle, WA*** **March – June 2021**
- + Created, brainstormed, and lead labs & lectures with the teaching team in FISH 497B: Marine Top Predator Ecology and Conservation. In addition, graded labs, assignments, problem sets, and research proposals.
- Teaching Assistant – *UW Center for Quantitative Science, Seattle, WA*** **September – December 2020**
- + Responsible for scoring exams and assignments, maintaining grading records, creating and running lab sessions, & holding office hours in QSCI 381: Introduction to Probability and Statistics.
- Divemaster Internship – *KoroSun Dive, Savusavu, Fiji*** **May – June 2017**
- + Assisted with diver education, safety, and risk management while training in dive skill application, theory, and supervision. Skills gained including underwater mapping, dive planning, and diver care.
- Research Diver – *Virgin Islands Environmental Resource Station, St. John, USVI*** **July – August 2012**
- + Aided in graduate and professional level research through a federal grant from the US NSF. Conducted research on benthic invertebrates, leading to a publication in the Bulletin of Marine Science.

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## AWARDS & FUNDING

<b>Graduate Fellowship 2025 – <i>Simon Fraser University</i></b>	<b>\$7,000</b>
<b>Graduate Fellowship 2024 – <i>Simon Fraser University</i></b>	<b>\$4,000</b>
<b>PhD Research Scholarship – <i>Simon Fraser University</i></b>	<b>\$1,836</b>
<b>Travel &amp; Research Award – <i>Simon Fraser University</i></b>	<b>\$700</b>

<b>Weston Family Scholarship – <i>Simon Fraser University</i></b>	<b>\$29,000</b>
<b>J. Abbott/M. Fretwell Fellowship – <i>Simon Fraser University</i></b>	<b>\$7,800</b>
<b>Graduate Fellowship 2023 – <i>Simon Fraser University</i></b>	<b>\$7,000</b>
<b>Faculty of Forestry International Student Scholarship – <i>University of British Columbia</i></b>	<b>\$10,000</b>
<b>President’s Entrance Scholarship – <i>University of British Columbia</i></b>	<b>\$500</b>

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## SERVICE & ENGAGEMENT

<b>Co-organizer – “Putting Sharks in the Parks” Symposium IMCC7</b>	<b>2024</b>
<ul style="list-style-type: none"> <li>+ Part of the team organizing “Putting sharks in the parks: sharing lessons in spatial planning to accelerate shark conservation” a double session symposium in The 7<sup>th</sup> International Marine Conservation Congress (IMCC7). The symposium featured 15 talks followed by round table discussion.</li> </ul>	
<b>Lead Organizer – <i>Interdisciplinary Ecology and Aquatic Systems Symposium (IDEAS)</i></b>	<b>2023 – 2024</b>
<ul style="list-style-type: none"> <li>+ IDEAS brings together SFU students and faculty within the departments of Biology and Resource &amp; Environmental Management to share their cutting-edge research and ‘ideas’. As lead organizer I was responsible for communications, fundraising, abstract review, and scheduling.</li> </ul>	
<b>Vice President – <i>UW Student Environmental Affairs Society (SEAS)</i></b>	<b>2020 – 2021</b>
<b>Committee Member – <i>UW Program on Climate Change Graduate Student Steering Committee</i></b>	<b>2019 – 2021</b>
<b>Member – <i>UW School of Marine and Environmental Affairs Diversity Forum</i></b>	<b>2020 – 2021</b>
<b>Wet Lab Educator – <i>Vancouver Aquarium, Vancouver, BC</i></b>	<b>2016 – 2017</b>
<b>Brownies Troop Leader – <i>Girl Guides, Vancouver, BC</i></b>	<b>2016 – 2018</b>

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## ADDITIONAL TRAINING & SKILLS

### **Data Wrangling & Geospatial Analysis.** *Microsoft Excel, ImageJ, R, and QGIS.*

- + Completed DataCamp track *R for Data Science* (95 hours, 22 modules)
- + Completed course on Geocomputation in R

### **Animal Husbandry.**

- + Experience collecting vertebrates and invertebrates from the field, caring for them in a lab setting, and handling them during research experiments.
- + Experience in professional long-term care of aquaria specimens including sharks, bony fish, and corals.

### **CPR & First Aid.**

- + Certified in emergency oxygen provision, standard first aid, and CPR.

### **Diving.**

- + *CAUS Level 1 Scientific Diver*
- + *Recreational PADI Divemaster, Rescue Diver, Advanced Open Water, Nitrox & Drysuit Diver*