

Aaron M. Eger



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AaronEger

Education

Doctor of Philosophy – University of New South Wales, Sydney, Australia 2018 - Present

School of Biological, Earth, and Environmental Sciences

Supervisors: Dr. Adriana Vergés, Dr. Peter Steinberg, Dr. Suhelen Egan

Thesis: *Conservation Decision Making in Global Kelp Forest Restoration*

Masters of Science - University of Victoria, Victoria, Canada 2015 - 2017

Department of Biology, Supervisor: Dr. Julia Baum

Thesis: *The Role of Predators and Species Diversity in Structuring Marine Ecosystems*

Bachelor of Science – McGill University, Montreal, Canada 2010 - 2014

Department of Biology, Supervisor: Dr. Frédéric Guichard

Thesis: *Habitat Suitability Monitoring To Design Marine Protected Areas in British Columbia, Canada*

Publications

Iacarella, J., ... **Eger, A.**, ... Baum, J. 2018. *Anthropogenic disturbance homogenizes coastal seagrass fish*. *Global Change Biology* 24(5): 1904-1918

Eger, A., Curtis, J., Guichard, F., Fortin, M.J., Côté, I. 2017. *Transferability and scalability of species distribution models: a test with sedentary marine invertebrates*. *Canadian Journal of Fisheries and Aquatic Sciences* 74: 766-778.

Eger, A. M., Best, R., Baum, J. *Dominance of key species determines fish community biomass in a temperate seagrass ecosystem* (In revision, EcoEvoRxiv 2019)

Eger, A. M., Baum, J., Bard, S. *If you cease it, will they come back? How exposure to and release from a pollution disturbance shapes rocky intertidal communities in British Columbia* (In revision)

Eger, A. M. and Baum, J. *Trophic cascades in benthic marine ecosystems: a meta-analysis of experimental and observational research* (In revision).

Command, R., ... **Eger, A. M.**, ... Eastham, T. *Siphon orientation and condition factor affect the survivorship of juvenile Pacific geoduck, *Panopea generosa** (In revision)

Rincon-Diaz, M., Pittman, S., **Eger, A.**, Heppell, S. *Functional diversity: a tool for the ecological performance of MPAs and indicator of ecological resistance in reef fish assemblages* (In revision)

Saunders, M... **Eger, A. M.**, ... Silliman, B., *Bright spots in the emerging field of coastal marine ecosystem restoration* (In prep)

Work Experience

Teaching Assistant – Bamfield Marine Science Center, Canada **2017**

Worked as the TA for the semester long directed studies course at a remote field station. Duties included helping students design and carry out all elements of their research, supervising students in the field, and providing career mentorship.

Teaching Assistant – University of Victoria, Canada **2015, 2017**

Developed course materials, taught tutorials, presented guest lectures, handled marking and office hours for BIOL 370 (Conservation Biology).

Contractor – Department of Fisheries and Oceans Canada, Canada **2014 – 2015**

Conducted research into the production and applications of species distribution models for benthic invertebrates on the British Columbian coast.

Research Assistant – McGill University, Canada **2013, 2014**

Worked in collaboration with the Department of Fisheries and Oceans Canada, Simon Fraser University, and the University of Toronto on a project examining the various methods for designing marine protected areas (genetic connectivity and ocean circulation). Primary duties were: coordinating and conducting the dive collection and sampling of sea cucumbers, literature review, and database management.

Scientific Diver – Department of Fisheries and Oceans, Canada **2013, 2014**

In reciprocation for assistance with the NSERC project I also worked with the DFO on their projects. These duties included: dive collections, sample processing, underwater surveys, and data processing.

Presentations & Outreach

Eger, A.M., Marzinelli, E., Steinberg, P., Vergés, A. *Worldwide Synthesis of Kelp Forest Restoration.* International Congress on Conservation Biology, Kuala Lumpur, Malaysia, July 23-27th, 2019

Eger, A. M. & Baum, J. K. *A Meta analysis of experimental and observational benthic marine trophic cascades.* International Temperate Reef Symposium, Hong Kong , January 6-11th, 2019,

Eger, A. M., Best, R., Baum, J. *The role of biodiversity in eelgrass food web structure and functioning: a multidimensional approach.*

- Ecological Society of America Symposium, Portland, OR August 6 – 11th, 2017
- International Congress on Conservation Biology, Cartagena, Colombia, July 23 – 27th, 2017

Eger, A. M., Baum, J., Bard, S. *If you cease it, will they come back? How exposure to and release from a pollution disturbance shapes rocky intertidal communities in British Columbia.*

- Canadian Society for Ecology and Evolution Meeting Victoria, BC, May 6-11th, 2017
- Pacific and California Estuarine Research Symposium, Coos Bay, Oregon, March 16-19th, 2017

Eger, A., Curtis, J., Guichard, F., Fortin, M.J., Cote, I. *Transferability and scalability of species distribution models: A test with sedentary marine invertebrates.* Pacific Estuarine Research Symposium, Squamish, British Columbia, March 10-12th, 2016

Eger, A., Curtis, J., Guichard, F. *Using Habitat Suitability Models to Further Marine Conservation*. Quebec Center for Biodiversity Science Symposium, Dec. 9-11th 2014 (Poster)^[17]_[SEP]

Vancouver Aquarium: Marine Speaker Series: *Marine Meadows: The ecology, biology, and future of seagrass*. Prince Rupert and Terrace, BC (Public lecture, October 27 and 28th, 2015)

Major Awards

Scientia PhD Fellowship: <i>University of New South Wales</i>	2018 – 2022: 385,000\$
Industrial Partnership Scholarship: <i>NSERC Canada</i>	2015 – 2017: 42,000\$
Dr. Arne H. Lane Graduate Fellowships: <i>University of Victoria</i>	2017: 8,150\$
King Platt Memorial Award: <i>University of Victoria</i>	2017: 3,000\$
Faculty of Graduate Studies Travel Award: <i>University of Victoria</i>	2015, 16, and 17: 1,500\$
Heinle Award for Best Talk: <i>Pacific Estuarine Research Symposium</i>	2017: 750\$

Service Roles

Data Consultant: <i>Urchinomics Inc.</i>	2019 – Present
Research Affiliate: <i>Seaforester</i>	2019 – Present
Postgraduate Representative: <i>Center for Marine Science and Innovation</i>	2019 – 2020
Committee Lead: <i>University of New South Wales Climate Change Network</i>	2019 – Present
Postgraduate Representative <i>UNSW Ecology and Evolution Center</i>	2019 – 2020
Ambassador: <i>EcoEvoRxiv</i>	2018 – Present

Professional Collaborations

The Nature Conservancy California	2018 – Present
Department of Fisheries and Oceans Canada	2015 – 2017
World Wildlife Fund Canada	2015 – 2017
Tsimshian Environmental Stewardship Association	2015 – 2017

Certifications & Aptitudes

- Canadian Association of Underwater Science: Scientific Diver Level I
- PADI: Rescue Diver
- Transport Canada: Small Vessel Operator Proficiency
- Transport Canada: Marine First Aid & CPR + AED level C
- Worksafe BC: Occupational First Aid Level 1
- Transport Canada: Transportation of Dangerous Goods
- Industry Canada: Restricted Radio Operator Certificate
- Transport Canada: Marine Emergency Duties for Non Pleasure Vessels
- Marine fieldwork (boating, seining, diving, species ID and collection)
- Photography (Underwater)
- Statistical analysis in R and RMarkdown
- Spatial analysis in ArcGIS & QGIS
- Microsoft Excel & Access
- Adobe Photoshop & Illustrator
- Habitat Suitability Models
- Marine Food Web Models
- Science Communication
- Improvised Comedy
- ENVI (Remote Sensing)