

# Eliza C. Heery

Hogan MarineGEO Postdoctoral Fellow  
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## Education

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- Ph.D. in Biology: **University of Washington** 1/2011-8/2017  
Dissertation: *Benthic subtidal assemblages and ecological processes in urbanized seascapes of Puget Sound, Washington, USA*  
Advisor: Dr. Kenneth P. Sebens
- M.S. in Fishery Science: **Virginia Tech** 8/2004-5/2007  
Thesis: *The impact of bias in length frequency data on an age structured fisheries stock assessment model*  
Advisor: Dr. James M. Berkson
- B.S. in Biology: **Emory University** 8/2002-5/2004  
Dean's List, International Scholars Program
- Three Seas Program – **Northeastern University** 8/2001-3/2002  
Friday Harbor, WA and Discovery Bay, Jamaica

## Professional Appointments

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- Tennenbaum Marine Observatories Network, Smithsonian Institution** 11/2019-present  
*Hogan MarineGEO Postdoctoral Fellow*  
University of Washington Friday Harbor Laboratories  
Mentors: Dr. Megan N. Dethier and Dr. J. Emmett Duffy
- National University of Singapore** 9/2017-10/2019  
*National Research Foundation Postdoctoral Research Fellow*  
Department of Biological Sciences  
Mentor: Dr. Peter A. Todd
- National Oceanic and Atmospheric Administration (NOAA)** 1/2008-12/2010  
*Statistician / Data Analyst*  
Contractor: Pacific States Marine Fisheries Commission (PSMFC)  
Northwest Fisheries Science Center (NWFSC), Seattle

## Scholarship

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Citations: 254 | h-index: 7 | i10-index: 6  
(via Google Scholar, Jan 2020)

## Peer-Reviewed Publications

- Viyakarn, V, S Chavanich, **EC Heery\***, C Raksasab (2020). [Distribution of sea cucumbers, \*Holothuria atra\*, on reefs in the upper Gulf of Thailand and the effect of their population densities on sediment microalgal productivity.](#) *Estuarine, Coastal and Shelf Science* 235: 106514.  
\* Contribution: Limited to data collection and laboratory processing in 2002.
- Heery, EC** and KP Sebens (2019). [Chapter 11: The North-East Pacific: Interactions on subtidal hard substrata.](#) In (Eds) Hawkins, S.J., L.B. Firth, K. Bohn, and G.A. Williams. *Interactions in the Marine*

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*Benthos – A Regional and Habitat Perspective*. Systematics Association Special Volume Series, Cambridge University Press. pp. 260-306.

3. Morris, RL, **EC Heery\***, LHL Loke, ETC Lau, EM Strain, L Airoidi, KA Alexanders, MJ Bishop, RA Coleman, JR Cordell, YW Dong, LB Firth, SJ Hawkins, T Heath, M Kokora, SY Lee, JK Miller, S Perkol-Finkel, A Rella, PD Steinberg, I Takeuchi, RC Thompson, P Todd, JD Toft, KMY Leung (2019). [Design options, implementation issues and evaluating success of ecologically-engineered shorelines](#). *Oceanography and Marine Biology: An Annual Review* 57: 169-228.  
\* Contribution: writing, editing, conceptual development
4. **Heery, EC\***, PA Todd\*, Loke LHL, RH Thurston, JD Kotze, C Swan (2019). [Towards an urban marine ecology: characterizing the drivers, patterns and processes of marine ecosystems in coastal cities](#). *Oikos* 128(9): 1215-1242.  
\* Co-first authors
5. Du, RCP, Quek R, Jian SS, Lee AC, S Schmidt-Roach, Tun K, **EC Heery\***, Chou LM, PA Todd, Huang D (2019). [Last species standing: loss of Pocilloporidae corals associated with coastal urbanization in a tropical city state](#). *Marine Biodiversity* 49(4): 1727-1741.  
\* Contribution: references and background material relating to marine urbanization
6. Loke LHL, **EC Heery\***, S Lai, TJ Bouma, PA Todd (2019). [Area-independent effects of water-retaining features on intertidal biodiversity on eco-engineered seawalls in the tropics](#). *Frontiers in Marine Science* 6(16): 1-10.  
\* Contribution: writing, supported data analysis
7. Loke LHL, **EC Heery\***, and PA Todd (2019). [Chapter 29: Shoreline Defenses](#). In (Ed) C Sheppard. *World Seas: An Environmental Evaluation*. Academic Press. pp. 491-504.  
\* Contribution: writing
8. **Heery, EC**, KA Dafforn, JA Smith, S Ushiana, M Pinto-Mayer (2018). [Not all artificial structures are created equal: Pilings linked to greater ecological and environmental change in sediment communities than seawalls](#). *Marine Environmental Research* 142: 286-294.
9. **Heery, EC**, BW Hoeksema, NK Browne, JD Reimer, Ang PO, Huang D, DA Friess, Chou LM, Loke LHL, P Saksena-Taylor, N Alsagoff, T Yeemin, M Sutthacheep, Vo ST, AR Bos, GS Gumanao, MAS Hussein, Z Waheed, DJW Lane, O Johan, A Kunzmann, J Jompa, Suharsono, D Taira, AG Bauman, PA Todd (2018). [Urban coral reefs: Degradation and resilience of hard coral assemblages in coastal cities of East and Southeast Asia](#). *Marine Pollution Bulletin* 135: 654-681.
10. **Heery, EC** and KP Sebens (2018). [Artificial structures as a source of elevated detrital loads for natural sedimentary environments](#). *Bulletin of Marine Science* 94(4): 1429-1446.
11. Hayes, AL, **EC Heery\***, E Maroon, AK McClaskey, CC Stawitz (2018). [The role of scientific expertise in local adaptation to projected sea level rise](#). *Environmental Science & Policy* 87: 55-63.  
\* Contribution: data analysis, survey development, writing
12. **Heery, EC** (2018). [Reduced macrofauna diversity and abundance in response to red macroalgal detritus](#). *Journal of Experimental Marine Biology and Ecology* 505: 1-8.
13. **Heery, EC**, AY Green, BE Feist, KP Sebens (2018). [Urbanization-related distribution patterns and habitat-use by giant Pacific octopus \(\*Enteroctopus dofleini\*\)](#). *Urban Ecosystems* 21(4): 707-719.
14. Strain, EMA, C Olabarria, M Mayer-Pinto, V Cumbo, RL Morris, AB Bugnot, KA Dafforn, **EC Heery\***, LB Firth, P Brooks, MJ Bishop (2017). [Eco-engineering urban infrastructure for marine and coastal biodiversity: which interventions have the greatest ecological benefit?](#) *Journal of Applied Ecology* 55(1): 426-441.  
\* Contribution: data analysis/compilation
15. **Heery, EC**, MJ Bishop, L Citchley, AB Bugnot, L Airoidi, M Mayer-Pinto, EV Sheehan, RA Coleman, Loke LHL, EL Johnston, V Komyakova, RL Morris, EMA Strain, LA Naylor, KA Dafforn (2017). [Identifying the consequences of ocean sprawl for sedimentary habitats](#). *Journal of Experimental Marine Biology and Ecology* 492: 31-48.

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16. **Heery, EC** and JM Cope (2014). [Co-occurrence of bycatch and target species in the groundfish demersal trawl fishery of the U.S. west coast; with special consideration of rebuilding stocks](#). *Fishery Bulletin* 112: 36-48.
17. Bellman, MA and **EC Heery\*** (2013). [Discarding and fishing mortality trends in the U.S. west coast groundfish demersal trawl fishery](#). *Fisheries Research* 147: 115-126.  
\* Contribution: data analysis, writing
18. **Heery, EC** and J Berkson (2009). [Systematic errors in length frequency data and their effect on age-structured stock assessment models and management](#). *Transactions of the American Fisheries Society* 138: 218-232.

## Currently in Review

1. Bugnot, AB, M Mayer-Pinto, L Airoidi, **EC Heery\***, EL Johnston, L Critchley, EMA Strain, RL Morris, LHL Loke, MJ Bishop, EV Sheehan, RA Coleman, KA Dafforn (in review). Current and projected global extent of marine infrastructure. *Nature Sustainability*.  
\* Contribution: data compilation, editing, minimal writing
2. **Heery, EC**, Lian LY, Loke LHL, Tan HTW, PA Todd (In review). Assessing small-scale community seaweed farms as a means for adding multifunctionality to urban waterfronts. *Ecological Engineering*.
3. **Heery, EC**, Oh RKE, D Taira, Ng D, Chim CK, R Hartanto, AH Rowen, T Chai, Loke LHL, Yeo HHJ, PA Todd (in review). Human-engineered hydrodynamic regimes as a driver of cryptic microinvertebrate populations on urban artificial shorelines. *Science of the Total Environment*.
4. Hsiung, AR, Tan WT, Loke LHL, LB Firth, **EC Heery\***, J Ducker, V Clark, YS Pek, WR Birch, ACF Ang, RS Hartanto, T Chai, PA Todd (in review). Little evidence that lowering the pH of concrete supports greater biodiversity on tropical and temperate seawalls. *Marine Ecology Progress Series*.  
\* Contribution: data analysis, editing, minimal writing
5. Taira, D, **EC Heery\***, LHL Loke, A Teo, AG Bauman, PA Todd (in review). Ecological engineering across organismal scales: Positive effects of microhabitat features on epibenthic-feeding fish assemblages. *Marine Ecology Progress Series*.  
\* Contribution: writing, field work, experimental design and research planning

## Grants & Awards

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| 2018 | <b>Singapore National Research Foundation</b> , Australia-Singapore Joint Research Grant: An eco-design portfolio for the urban marine environment (\$180,574), <i>Co-investigator</i>   |
| 2016 | <b>National Science Foundation</b> , East Asia Summer Institute (\$5000), <i>PI</i><br><b>Australian Academy of Science</b> , East Asia Summer Institute (\$2000), <i>Fellow</i><br><b>IGERT Program on Ocean Change</b> , Research Grant (\$2500), <i>Awardee</i> |
| 2014 | <b>University of Washington Biology Department</b> , R.T. Paine Experimental and Field Ecology Award (\$2500), <i>Awardee</i><br><b>IGERT Program on Ocean Change</b> , International Research Grant (\$2000), <i>Awardee</i>                                      |
| 2013 | <b>University of Washington Biology Department</b> , R.T. Paine Experimental and Field Ecology Award (\$5000), <i>Awardee</i>  |
| 2012 | <b>National Science Foundation</b> , IGERT Program on Ocean Change Fellowship (2 years of support), <i>Fellow</i><br><b>University of Washington Biology Department</b> , Friday Harbor Labs Award (\$1250), <i>Awardee</i>  |

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- 2011 **National Science Foundation**, GK-12: Ocean and Coastal Interdisciplinary Science (OACIS) Program (1 year of support), *Fellow*
- 2004 **National Oceanic and Atmospheric Administration**, NMFS-RTR Research Assistantship (3 years of support), *Research Assistant*
- 2004 **National Science Foundation**, GK-12: Problems & Research to Integrate Science & Mathematics (PRISM) Program (1 semester of support), *Undergraduate Fellow*
- 2003 **Emory University Institute for International and Comparative Studies**, International Scholars Grant (\$3000), *Awardee*

## Teaching Experience

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### Instructor

#### University of Washington

Introduction to Marine Biology (Biol/Fish/Ocean 250)	Summer 2017
Topics in Sustainable Fisheries (Fish 478)	Winter 2017
Marine Ecological Processes (Biol 423)	Fall 2016

#### Highline Community College

Marine Biology (BIOL 110)	Summer 2015
Oceanography (OCEAN 101)	Summer 2015

#### Wildlands Studies (California State University, Monterey Bay)

Pacific Northwest Field Ecology Course	Fall 2009
Belize Field Ecology Course	Summer 2007

### Teaching Assistant

#### University of Washington

Marine Botany (Biol 445)	Spring 2016 & 2017
Pelagic Ecosystem Functioning Apprenticeship (Ocean 492)	Fall 2015
Evolution and Human Behavior (Honors 221)	Winter 2015
Foundations in Evolution and Systematics (Biol 354)	Fall 2014
Foundations in Ecology (Biol 356)	Winter 2014
Invertebrate Zoology (Biol 434)	Summer 2011
Introductory Biology I (Biol 220)	Spring 2011
Introductory Biology III (Biol 180)	Winter 2011

### Mentoring

#### National University of Singapore

PhD Students (2):

- Daisuke Taira, Topic: Fish responses to ecological enhancements on tropical seawalls (Graduation: May 2024)
- Hannah Yeo (co-mentored), Topic: Trophic relationships among intertidal invertebrates and algae on tropical urban shorelines (Graduation: May 2025)

Undergraduate FYP (Final Year Project) Students (4):

- Lian Kay Yee, Topic: Seawalls as cultivation habitat for edible plants and seaweeds. (Graduation: July 2019)
- Ng Dillen, Topic: Effects of sediment deposition on fish utilization of seawall algal turfs. (Graduation: July 2019)

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- Oh Kai En Rachel, Topic: Epifauna associated with turf algae on seawalls. (Graduation: July 2019)
- Tan Jit Yee, Topic: Stone coatings and acid etching as ecological enhancement strategies on seawalls. (Graduation: July 2019)

### University of Washington

#### Capstone Students (3):

- Michealene Corlett, Topic: Intertidal communities on artificial structures in Cesenatico, Italy. (Graduation: Spring 2017)
- Michelle Louie, Topic: Food consumption and growth rates of juvenile sea urchins, *Strongylocentrotus droebachiensis*, with varying food types. (Graduation: Spring 2015)
- Amy Green, Topic: Analysis of *Enteroctopus dofelinei* (giant Pacific octopus) midden contents from artificial reef den sites in Puget Sound. (Graduation: Fall 2014)

#### Undergraduate Interns (20):

- Bryson Albrecht, Jack Berrigan, Jessica Blanchette, Angeline Blattenbauer, Amy Green, Tiffany Huang, Shelley Johnson, Kim Jones, Avida Knebel, Michelle Louie, Ian McQuillen, Christopher Mowers, Jessica Nordstrom, Michael Pantalos, Rianne Peterson, Ashley Pierson, Rachel Podell-Eberhardt, Monisha Ray, Deja Sanchez, Mia Tien Sebek

### **Pedagogy & Teaching Training**

COMPASS Science Communication Clinic (UW: ENVIR 500A)	Fall 2013
Communicating Ocean Sciences (UW: OCEAN 592)	Fall 2011
OACIS GK-12 Training Workshop (UW)	Aug 2011
PRISM Undergraduate Training in Problem Based Learning (Emory)	Spring 2004

### **Seminars & Conference Presentations**

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#### **Invited Seminars**

Macquarie University, Department of Environmental Sciences Seminar Series. 2019. Talk title: *Toward an Urban Marine Ecology*. Sydney, Australia.

Friday Harbor Laboratories Seminar Series. 2017. Talk title: *City dwellers: Benthic subtidal assemblages in urbanized seascapes of Puget Sound*. Friday Harbor, WA.

Plymouth Marine Laboratory Seminar Series. 2015. Talk title: *Benthic Communities in an Urbanized World*. Plymouth, UK.

Friday Harbor Laboratories Seminar Series 2015. Talk title: *Benthic subtidal communities in an urbanized world*. Friday Harbor, WA.

#### **Invited Symposia**

2<sup>nd</sup> International Workshop on Eco-Shoreline Designs for Sustainable Coastal Development, 2018. Talk title: *Designing artificial structures with an eye on detrital production and flux*. Hong Kong.

1<sup>st</sup> Singapore-Hong Kong Hard Shore Ecology Workshop, 2017. Talk title: *Characterizing productivity in the tropical rocky intertidal*. Hong Kong.

2<sup>nd</sup> Semiannual Seattle Aquarium Octopus Symposium, 2017. Talk title: *Urbanization-Related Distribution Patterns and Habitat Use by *Enteroctopus dofelinei**. Seattle, WA.

ECSA55 Special Session: Urban sprawl in the marine environment, 2015. Talk title: *Urban infauna: The effect of material fluxes from artificial structures on soft sediment species assemblages in urban, subtidal landscapes*. 55<sup>th</sup> Annual Meeting of the Estuarine Coastal Sciences Association, London, UK.

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### Contributed Talks

2019. *Who's on top? Non-hierarchical epiphytic interaction networks among urban turf algae*. 12<sup>th</sup> International Temperate Reefs Symposium, Hong Kong.
2018. *Urban-related distribution patterns of the giant Pacific octopus (*Enteroctopus dofleini*) in Puget Sound, Washington, USA*. 57<sup>th</sup> Annual Meeting of the Estuarine Coastal Sciences Association, Perth, Australia.
2018. *Urban coral reefs of East and Southeast Asia: A case study approach*. 5<sup>th</sup> International Marine Conservation Congress, Kuching, Malaysia.
2015. *The effect of material fluxes from artificial structures on neighboring infaunal communities in an urban subtidal landscape*. Aquatic Biodiversity and Ecosystems Conference, Liverpool, UK.
2014. *Material fluxes from subtidal man-made structures to adjacent soft sediment habitats in the urban subtidal*. 95<sup>th</sup> Annual Meeting of the Western Society of Naturalists, Tacoma, WA.
2007. *The impact of biased length frequency data on age-structured stock assessment models*. 137<sup>th</sup> Annual meeting of the American Fisheries Society, San Francisco, CA.

### Poster Presentations

2018. *A case study approach for identifying the characteristics of urban coral reefs*. 57<sup>th</sup> Annual Meeting of the Estuarine Coastal Sciences Association, Perth, Australia.
2014. *Subtidal riprap in Puget Sound: Its ecological structure and function, and its impact on adjacent soft sediment environments*. 2014 Salish Sea Ecosystem Conference, Seattle, WA.
2006. *The impact of biased length frequency data on marine population models*. 91<sup>st</sup> Annual Meeting of the Ecological Society of America, Memphis, TN.

### Coauthored Presentations & Posters

- Loke, LHL, **EC Heery**, PA Todd. 2019. *Can niche partitioning alone explain why complex habitats host greater intertidal biodiversity at local scales?* Oral Presentation at the 12<sup>th</sup> International Temperate Reefs Symposium, Hong Kong.
- Pek, YS, S Summers, LHL Loke, **EC Heery**, PA Todd, D McDougald, S Rice, WR Birch. 2019. *Diversifying materials, offering greater habitat complexity to enhance biodiversity on Singapore's seawalls*. Poster Presentation at the 12<sup>th</sup> International Temperate Reefs Symposium, Hong Kong.
- Taira, D, **EC Heery**, LHL Loke, AG Bauman, PA Todd. 2019. *Eco-engineering coastal defence structure can increase fish diversity in an urbanized shoreline*. Oral Presentation at the 12<sup>th</sup> International Temperate Reefs Symposium, Hong Kong.
- Todd, PA, LHL Loke, **EC Heery**. 2019. *Marine urbanization in Singapore: pattern, processes, and predictions*. Oral Presentation at the 12<sup>th</sup> International Temperate Reefs Symposium, Hong Kong.
- Taira, D, **EC Heery**, LKL Loke, AG Bauman, PA Todd. 2018. *Habitat enhancement for augmenting fish interactions with seawalls along a tropical urban shoreline*. Oral Presentation at the 5<sup>th</sup> International Marine Conservation Congress, Kuching, Malaysia.
- Taira, D, **EC Heery**, LKL Loke, AG Bauman, PA Todd. 2018. *Response of coral reef fishes to small-scale habitat enhancement in the tropical artificial shoreline*. Oral Presentation at the 4<sup>th</sup> Asia-Pacific Coral Reef Symposium, Cebu City, Philippines.
- Todd, PA, **EC Heery**, N Browne, BW Hoeksema, JD Reimer, PO Ang, DA Friess, D Huang, LM Chou, AG Bauman, LHL Loke. 2018. *Urban coral reefs of East and Southeast Asia*. Oral Presentation at the 4<sup>th</sup> Asia-Pacific Coral Reef Symposium, Cebu City, Philippines.

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Olsen, AG, **EC Heery**, BE Feist, KP Sebens. 2018. *Urban-related distribution patterns of an iconic Salish Sea mesopredator, the giant Pacific octopus (Enteroctopus dofleini)*. Oral Presentation at the 2018 Salish Sea Ecosystem Conference, Seattle, WA.

Chavanich, S, V Viyakam, **EC Heery** and C Raksataub. 2003. *Effect of densities of the sea cucumber, Holothuria atra, on chlorophyll concentrations in sediments*. Poster Presentation at the 32nd annual Benthic Ecology Meeting, Groton, CT.

## Service & Outreach

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### Public Talks

- **TEDx:** *Beyond the Water's Edge*. United World College Southeast Asia, Singapore. 2018. [https://www.youtube.com/watch?v=Fs2-e\\_NhXJQ](https://www.youtube.com/watch?v=Fs2-e_NhXJQ)
- **Public Defense Seminar:** *Benthic subtidal assemblages in urbanized seascapes of Puget Sound*. University of Washington, Seattle, WA. 2017. <https://www.youtube.com/watch?v=KvFDiTMZWxg>
- **Boeing SCUBA Club:**
  - 2017: *Urbanization-related distribution patterns and habitat use by giant Pacific octopus (Enteroctopus dofleini)*. Issaquah, WA.
  - 2014: *SCUBA Research in the Urban Subtidal*. Seattle, WA.
- **Seattle Aquarium:** *Urbanization-Related Distribution Patterns and Habitat Use by Enteroctopus dofleini*. Presented in the Semiannual Octopus Symposium. Seattle, WA. 2017.
- **Seattle Design Festival:** *"Equity" in Urban Marine Ecosystems*. Presented in the Equitable Bike Ramble (AIA Seattle Urban Design Forum). Seattle, WA. 2015.
- **Seattle Arboretum:** *Urban Marine Ecosystems*. Presented to Arboretum Volunteers. Seattle, WA. 2014.
- **Pacific Fishery Management Council:** *Pacific Halibut Bycatch Estimates*. Presented to the Council, Advisory Panel, and Science and Statistical Committee. Portland, OR. 2010.

### Web-Based Outreach & Media Coverage

- **The Conversation:** *Future 'ocean cities' need green engineering above and below the waterline*. Online article co-authored by KA Dafforn, AB Bugnot, EC Heery, and M Mayer-Pinto. 2018. <https://theconversation.com/future-ocean-cities-need-green-engineering-above-and-below-the-waterline-93843>
- **World Economic Forum's 'Agenda':** *We must respect the ocean when building artificial islands*. Online article co-authored by KA Dafforn, AB Bugnot, EC Heery, and M Mayer-Pinto. 2018. <https://www.weforum.org/agenda/2018/07/future-ocean-cities-need-green-engineering-above-and-below-the-waterline/>
- **Hakai Magazine:** *Fish below your feet and other solutions for a living harbor*. Online article by T Bridge (featuring Singapore research). <https://www.hakaimagazine.com/features/fish-below-your-feet-and-other-solutions-for-a-living-harbor/>
- **TIDE BITES:** *An Octopus' Garden in the Urban Underwater Environment*. Online column by EC Heery. 2015. <https://sanjuanislander.com/opinion/columnists/tide-bites/20824/tide-bites-an-octopus-garden-in-the-urban-underwater-environment>
- **Green Seas in the Emerald City.** Online video by EC Heery. 2015. <https://www.youtube.com/watch?v=gnnZ2jvg2Fk>
- **Urban Marine Ecology.** Informational website constructed and maintained by EC Heery. 2012-present. <http://urbanmarineecology.org/>

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## Editorial Contributions

- Academic Editor, PLOS ONE (2019-present)

## Peer Review

Bulletin of Marine Science, Continental Shelf Research, Journal of the Marine Biological Association of the United Kingdom, Marine Ecology Progress Series, Marine Environmental Research, Marine Pollution Bulletin, Raffles Bulletin of Zoology, Transactions of the American Fisheries Society, Urban Ecosystems

## Seminar, Symposium, & Workshop Organizing

- **Conservation research in urbanized marine environments.** 2018. Symposium, 5<sup>th</sup> International Marine Conservation Congress. Kuching, Malaysia.
- **Algal identification workshop.** 2018. Instructor: Dr. Lawrence Liao (Hiroshima University). National University of Singapore. Singapore.
- **MonsterJAM Seminar Series.** 2010. Quarter-long seminar series, Northwest Fisheries Science Center. Seattle, WA.
- **Marine Conservation Biology Seminar.** 2005. Semester-long seminar series, Department of Fisheries and Wildlife, Virginia Tech. Blacksburg, VA.
- **Symposium on Genetically Modified Organism.** 2004. Three-day symposium. Emory University, Atlanta, GA.

## Volunteer Work

Volunteer, Our Singapore Reefs Fun Odyssey	2018
Community Ecologist (Advisor), Perkins+Will Research	2016
Diver, Marine Science and Technology Center “Carnival on the Dock”	2014
Diver, Bainbridge High School Underwater Robot Competition	2013
Chaperone, Garfield High School Oceanography Field School (Maui)	2013 & 2014
Delegate, The Ocean Exchange	2012
Tutor, Youth Tutoring Program (Seattle)	2008
Webmaster, Virginia Tech Chapter of American Fisheries Society	2005-2006
Graduate Mentor, Marine Resource Population Dynamics Workshop	2005
Tutor, Refugee Family Services	2002-2004
Volunteer, Hands On Atlanta	2003
Volunteer, Southeast Fisheries Science Center	2001
Volunteer, Dugdale Lab, Romberg Tiburon Center	1998-2000

## Honors & Professional Memberships

American Fisheries Society, Ecological Society of America, National Honors Society, Phi Kappa Phi, Society for Conservation Biology, Western Society of Naturalists

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