

Lian W. Guo

EDUCATION

- Exp. 12/21 Ph.D. Organismic and Evolutionary Biology (OEB); University of Massachusetts, Amherst
(4.0 GPA)
- 05/14 B.A. Organismal Biology (honors); Scripps College, Claremont, CA
(3.69 GPA)

PUBLICATIONS

*Refereed Journal Articles (*all authors hold equal authorship)*

- Guo, LW***, Panchang, S, Drakopoulos, L, Koehn, Z, Robertson, D, and M Marjadi. 2020. Transdisciplinary Synthesis Research in Unruly Environments: Reflecting on a Case Study of Vulnerability and Urban Fishing in the American Gulf Coast. *15. Practices of Health in Unruly Environments*
- Guo, LW**. 2020. Worried about hair loss? So are these seals. *Conservation Physiology* 8.1 (2020): coaa072.
- Thompson, AR, Chen, D, **Guo, LW**, Hyde, JR, and W Watson. 2017. Larval abundances of rockfishes that were historically targeted by fishing increased over 16 years in association with a large marine protected area. *Royal Society Open Science* 4:170639
- Khalil, A, Parker, M, Brown, SE, Cevik, SE, **Guo, LW**, Jensen, J, Olmsted, A, Portman, D, Wu, H, and A Suvorov. 2017. Perinatal Exposure to 2,2',4,4' -Tetrabromodiphenyl Ether Impairs Male Reproductive Health in Adult Rats. *Toxicology*. 389: 21 - 30
- Thompson, AR, Hyde, JR, Watson, W, Chen, D, and **LW Guo**. 2016. Rockfish assemblage structure and spawning locations in southern California identified through larval sampling. *Marine Ecology Progress Series*. 547:177-192

Manuscripts in Review

- Guo, LW**, S McCormick, E Schultz, and A Jordaan. Direct and indirect effects of temperature and ration-dependent growth rates on energy reserves in juvenile anadromous alewives (*Alosa pseudoharengus*). *Journal of Fish Biology*.
- Guo, LW***, Marjadi, MN, Drakopoulos, L, Koehn, Z, Panchang, S, and D Robertson. Negative Socio-Environmental Feedback Loop Fosters Inequality for Urban Marine Subsistence Fishers. *Environmental Science and Policy*.

INVITED TALKS

- Guo, LW**, Mannarino, H, McCormick, SD, and A Jordaan. "Can Food Availability Mitigate the Physiological Impacts of Temperature in Juvenile Blueback Herring?" Sep 14, 2020. American Fisheries Society Virtual Annual Meeting. Oral Presentation.
- Guo, LW**, McCormick, SD, Schultz, E, and A Jordaan. "Hot Herring: Exploring the Effects of Temperature on Juvenile River Herring." Oct 18, 2018. Massachusetts River Herring Network Meeting. East Falmouth, Massachusetts. Oral Presentation.

RESEARCH EXPERIENCE

- University of Massachusetts Amherst**, Amherst, MA (08/2015 – Current)
Graduate Student (Advisors: Dr. Adrian Jordaan and Dr. Stephen McCormick)
- Directed and maintained laboratory facilities for river herring research, including mentoring undergraduates in animal husbandry, field sampling, otolith dissections/aging, and professional development
 - Evaluated effects of temperature and food availability on survival, growth, energy reserves, and thermal tolerance in juvenile alewife and blueback herring in the laboratory and field
- SESYNC: Fishing and Urban Inequality**, Annapolis, MD (10/2017 – 05/2019)
Graduate Research Fellow
- Assessed gaps in planning and environmental policy in maintaining access to healthy fish as a food source for socioeconomically disadvantaged urban marine subsistence fishing communities
- Southwest Fisheries Science Center (NMFS)**, La Jolla, CA (07/2014 – 07/2015)
Scientist II Contractor, FRD, Plankton Sorter (Supervisor: Dr. Andrew Thompson)
- Removed target fish species from plankton samples and genetically sequenced larval rockfish to determine temporal and spatial changes in rockfish assemblages in Southern California Bight

Scripps College, Claremont, CA

(09/2012 – 12/2013)

Student Researcher (Advisor: Dr. Sarah Gilman)

- Identified and implemented new methodology to measure upper thermal limits of *Balanus glandula* acclimated to different low-tide thermal regimes
- Determined efficacy and specificity of bile salts in culling *Acanthaster planci* in lab and field studies

HONORS/AWARDS

- 2021 Saul B. Saila Best Student Paper Award, American Fisheries Society (\$100)
- 2020 Irwin Martin Award, University of Massachusetts Amherst (\$2500)
Grants in Aid of Research, Sigma Xi (\$983)
Habitat Section Travel Award, American Fisheries Society (\$100)
- 2019 Graduate School Dissertation Fieldwork Grant, University of Massachusetts Amherst (\$3754)
UMass Amherst Three Minute Thesis Runner-Up, University of Massachusetts Amherst (\$500)
Graduate Research Fellow, National Socio-Environmental Synthesis Center (SESYNC) (\$2000)
Early Career Travel Award, International Council for the Exploration of the Sea (ICES) (\$730)
- 2018 OEB Research Grant Award, University of Massachusetts Amherst (\$1000)
Graduate School Dissertation Research Grant, University of Massachusetts Amherst (\$374)
College of Natural Sciences Teaching Fellow, University of Massachusetts Amherst (\$8700)
Southern New England Chapter (SNEC) Travel Award, American Fisheries Society (\$500)
Equal Opportunities Section Travel Award, American Fisheries Society (\$500)
- 2017 Cronin Research Award recipient, University of Massachusetts Amherst (\$500)
Graduate Research Fellowship Program Honorable Mention, National Science Foundation
OEB Research Assistantship Award, University of Massachusetts Amherst (\$8,633)

TEACHING EXPERIENCE

At University of Massachusetts Amherst

- 2020 Animal Behavior
- 2019 Ecology of Fishes; Fisheries Science and Management; Cell and Molecular Biology
- 2018 How Temperature Shapes Life (new course, *instructor of record*)
- 2015 Introductory Biology (also in 2016, 2017)

SELECTED SERVICE/OUTREACH

Diversity and Inclusion

- 2020 - present American Fisheries Society (AFS) Diversity and Inclusion Standing Committee member
- 2020 - present Fisheries Diversity and Inclusion Podcast host
- 2020 - present Diversity, Equity, and Inclusion Committee Founder and Co-Chair

Outreach and Communication

- 2020 - present AFS Climate Ambassador
- 2020 - present Conservation Physiology in Action writer
- 2015 - present That's Life [Science] Outreach Blog founder and writer
- 2015 - 2020 Life Science Café member and President
- 2014 - 2015 Southwest Fisheries Science Center Outreach Volunteer

Professional Service

- 2019 - 2020 AFS Southern New England Chapter 2020 Winter Meeting Planning Committee member
- 2018 - present AFS Society Equal Opportunities Section Outreach volunteer and Officer
- 2015 - present UMass Amherst AFS student subunit member

University Service

- 2020 - present OEB Steering Committee Student Representative
- 2019 - 2020 OEB Student Body President
- 2018 - 2020 Faculty Council for Public Engagement and Outreach Graduate Student Trustee
- 2018 - 2019 Graduate School Dissertation Research Grant Review Committee Member
- 2018 - 2019 Environmental Conservation Graduate Student Symposium Organizing Committee
- 2017 - 2019 Interdepartmental Graduate Programs (IDGP) Student Advisory Committee Representative