

Allison L. Rugila

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EDUCATION

UMass Amherst, Postdoctoral Fellow 2023- present

SUNY Stony Brook University, PhD Candidate, 2017- 2022

Department of Ecology & Evolution, Co-advisors: Dr. Brad Peterson, Dr. Robert Thacker

SUNY Stony Brook University, MA in Applied Ecology, Dept. of Ecology & Evolution, 2015- 2017

St. Mary's College of Maryland, BA in Biology, St. Mary's City, Maryland, 2010-2014

POSITIONS HELD

Head Lab TA, Chordate Zoology Lab (BIO344), Spring 2022

Instructor, Ecology Laboratory (BIO352), Fall 2021

Research Assistant, Sponge microbial diversity, Dr. Thacker, Summer 2021

Teaching Assistant, Chordate Zoology Lab (BIO 344), Spring 2020/2021

Teaching Assistant, Fundamentals of Biology (BIO 201), Fall 2019

Teaching Assistant, Applied Ecology (BEE 536), Spring 2019

New York Sea Grant Fellow, Dr. Dianna Padilla (Principal Investigator), 2016 - 2019

In collaboration with NOAA Northeast Fisheries Science Center (Milford, CT), tested for adaptation or acclimation of *Mytilus edulis* to increasing ocean acidification.

St. Mary's River Watershed Association (Non-Profit), St. Mary's City, MD

Program Director (2012 to February 2014, May 2016-August 2016):

Oversaw Marylanders Grow Oysters program for the St. Mary's River, SMRWA Re-Reef the Bay program, and SMRWA Reef Ball Project; Managed the Oyster Setting Facility; Supervised STEM summer interns and volunteers; Assisted in grant writing.

Director of Communications & Outreach (December 2014 – August 2015):

Coauthored St. Mary's River Characterization white paper as part of the St. Mary's River Watershed Restoration Action Strategy; Mentored STEM summer interns; Organized educational displays and public outreach events.

Student Intern (2011): Organized and participated in community outreach at public events and oyster restoration activities; wrote monthly press releases.

PUBLICATIONS

Rugila, A., A. Lowell, C. Gobler, B. Peterson. 2022. Acclimatization to dissolved oxygen and acidification stress in larval and early juvenile quahogs. (Dissertation chapter; *in prep*)

Rugila, A., A. Lowell, C. Gobler, B. Peterson. 2022. Latent effects of larval temperature and acidification stress on the juvenile quahog *Mercenaria mercenaria*. (Dissertation chapter; *in prep*)

Rugila, A., A. Lowell, B. Peterson. 2022. Can seagrass (*Zostera marina*) mitigate the effects of acidification on larval & juvenile quahog performance? (*in prep*)

Padilla, D. K., L. Milke, M. Akin-Fajiye, M. Rosa, D. Redman, A. Liguori, **A. Rugila**, D. Veilleux, M. Dixon, D. Charifson, S. Meseck. 2022. Can population geography outweigh the effects of ocean acidification. (*in review at Scientific Reports*)

I participated in broodstock spawning, larval rearing, and survivorship data collection. I collected and analyzed all laboratory and supplementary field water samples for carbonate chemistry.

Padilla, D. K., D. Charifson, A. Liguori, M. McCarty-Glenn, M. Rosa, and A. **Rugila**. 2018. Factors affecting gastropod larval development and performance: a systematic review. *Journal of Shellfish Research*. *Journal of Shellfish Research* 37(4):851-867.

All authors, after the first author, contributed equally to this paper with regards to reviewing papers, data analysis, and editing. <https://doi.org/10.2983/035.037.0414>.

St. Mary's River Watershed Characterization (*white paper*). 2016.

As part a St. Mary's River Watershed Restoration Action Strategy, I contributed to the following chapters: Living Resources and Habitat, Human needs and Services, and Restoration and Conservation Targeting. https://www.smrwa.org/pdffdocs/Characterization_Mar%202016.pdf.

WORKSHOPS ATTENDED

Graduate Student Workshop on Socio-Environmental Synthesis, SESYNC. August 2018. Annapolis, MD.

GRANTS AND AWARDS

Melbourne R. Carriker Student Research Grant, American Malacological Society, 2019. \$1500

Lerner Gray Memorial Fund Grant, American Museum of Natural History. 2019. \$1900

Fernald Fellowship & Larry McEdward Memorial Fund, UW Friday Harbor 2019. \$2152

Sigma Xi, The Scientific Research Honor Society, Associate Member, 2019

Department of Ecology & Evolution Lawrence B. Slobodkin Award, 2019 \$930

Department of Ecology & Evolution Conservation Leadership Award, 2016

Patagonia Environmental Grant, 2015 \$11,450

Funded the SMRWA Re-Reef the Bay project, a long-term monitoring and restoration project in the St. Mary's River oyster sanctuary.

Chesapeake Bay Trust Community Engagement and Restoration Grant, 2015 \$2,450

Funded the design and fabrications of an interpretive sign describing the SMRWA Re-Reef the Bay Project.

Cove Point Natural Heritage Trust Grant, 2013 \$6800

Provided stipends for STEM summer interns as part of the SMRWA Future Bay Leaders project, participating in habitat restoration and community outreach.

Boeing Global Corporate Citizenship Grant, 2013 \$6000

Funded oyster restoration (production of reef balls and purchasing oyster larvae).

Norcross Wildlife Foundation, 2012 \$2000

Funded a YSI and secchi disk for long-term water quality monitoring efforts.

PRESENTATIONS

Rugila, A. Acclimatization in a changing environment: linking larval and juvenile performance in *Mercenaria mercenaria*. March 2022. Ecology & Evolution Department Retreat (Oral presentation).

Rugila, A. Acclimatization in a changing environment: linking larval and juvenile performance in *Mercenaria mercenaria*. March 2021. USC Manahan Lab. (Oral presentation).

Rugila, A., C. Goble, A. Lowell, B. Peterson, and R. Thacker. Linking larval and juvenile performance in the bivalve *Mercenaria mercenaria*: when does the juvenile environment matter? Oral presentation. National Shellfisheries Annual Meeting, April 2020, Baltimore, MD. (*Cancelled*)

Padilla, D., L. Milke, S. Meseck, D. Redman, **A. Rugila**, A. Liguori, M. Rosa, and D. Veilleux. Effects of ocean acidification on development and survival of *Mytilus edulis*. Poster presentation. National Shellfisheries Association Annual Meeting, March 2017, Knoxville, TN.

- Rugila, A.** Mud crab (*Xanthidae: Eurypanopeus* and *Rhithropanopeus* spp.) parasitism by the invasive sacculinid barnacle (*Loxothylacus panopaei*). Oral presentation. Atlantic Estuarine Research Society Meeting, March 2014, Ocean City, MD.
- Rugila, A.**, and P. Riner. Remote Setting Spat Nursery: Giving Back to the Bay. Poster presentation. Chesapeake Watershed Forum. September 2012. Shepherdstown, WV.