

# **Teresa G. Schwemmer, Ph.D. Student, Marine Science**

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## **Research Interests**

- Climate change and ocean acidification effects on physiology and ecology
- Coastal fisheries ecology
- Environmental physiology of fishes
- Anthropogenic stressors and conservation of marine life

## **Education**

Ph.D., Marine Science. Stony Brook University, School of Marine and Atmospheric Sciences. (2016-present, degree anticipated 2022). GPA: 3.81.

- Dissertation: Physiological and ecological effects of elevated carbon dioxide concentrations on coastal marine animals (Advisor: Dr. Janet Nye).
- Graduate Assistantship, 2016-2017: New York Marine Sciences Consortium. Assisted with organization and planning of annual fall conferences.
- Graduate Assistant, 2016-2017: Flax Pond Marine Laboratory. Animal husbandry, laboratory maintenance, and aquarium assembly.
- Teaching Assistantship, Spring 2017: Contemporary Environmental Issues and Policy.
- Graduate Assistantship, 2017-Present: New York State Ocean Acidification Task Force. Participating in meetings with senior task force members and compilation of relevant documents on ocean acidification.

B.S., Marine Biology. University of Rhode Island (2011-2015). GPA: 3.93, *summa cum laude*

- Research Project for Marine Ecology (BIO 457): The effect of rugosity and algal cover on snail distribution on exposed and sheltered shores (Project with Fiona MacKechnie)

Bermuda Institute of Ocean Sciences (Fall 2014). Term GPA: 3.92

- Research Project: The effect of heterotrophy on calcification of *Madracis auretenra* at low and ambient pH (Mentor: Dr. Samantha de Putron)

Wissahickon Senior High School, Ambler, PA (2007-2011)

## **Work Experience**

2015 – 2016

Laboratory Assistant, Seibel Lab, University of Rhode Island, Kingston, RI. Assisted Dr. Brad Seibel and his graduate students with comparative marine physiology research, including the following duties:

- Measuring Antarctic krill hemolymph lactate concentrations to determine the effects of high carbon dioxide, high temperature, and a combination thereof.
- Measuring juvenile lobsters exposed to high carbon dioxide and measuring water quality, including spectrophotometer pH and alkalinity titration.
- Feeding captive sharks and obtaining tissue and blood samples for testing.

2016

Sales Representative, Sears Hometown Store, Wakefield, RI.

- Assisting customers in purchasing appliances, hardware, electronics, and lawn care equipment.

- Maintaining appearance and organization of store and stockrooms.

2013 – Present Staff, University of Rhode Island Coastal Institute, Narragansett, RI.

- Current duties include providing content updates for the climate change website Rhode Island Waves of Change.
- Previous duties include planning conferences and meetings, maintaining a database for Cooperative Ecosystem Studies Unit projects, and assistance with general needs and priorities in the office.

2014 Prepared Foods Associate/Belmont Market, Wakefield, RI

- Assisting with food preparation and assisting customers with food purchases.

2013 – 2014 Customer Service Representative/Across the Way, Stone Harbor, NJ

- Assisting customers with purchases, keeping store stocked, organized, and clean.

### **Presentations**

Schwemmer, T. G., J. A. Nye, H. Baumann. 2018. Physiological effects of increased carbon dioxide at multiple temperatures on Atlantic silverside embryos and larvae. (Poster: results of staining ionocytes in larvae).

Schwemmer, T. G., J. A. Nye, H. Baumann. 2017. Physiological effects of increased temperature and carbon dioxide on Atlantic silverside early life stages. Larval Fish Conference, Joint Meeting of Ichthyologists and Herpetologists, Austin, TX, USA. (Oral presentation: results of respirometry experiments quantifying metabolic rates in embryos and larvae).

### **Awards, Honors and Fellowships**

#### *Stony Brook University*

- Maze-Landau Travel Award, 2017 – A competitive travel scholarship awarded by the Maze-Landau Graduate Fund for Excellence through Stony Brook University's School of Marine and Atmospheric Sciences to fund full-time graduate students presenting at professional society meetings.
- National Science Foundation Graduate Research Fellowship, 2016 – Honorable Mention
- Graduate Council Fellowship, 2016 – Awarded by Stony Brook University to exceptionally qualified incoming doctoral and MFA students nominated by their respective graduate program; funds five years of graduate study.

#### *University of Rhode Island*

- Robert A. DeWolf Scholarship, 2014 – Awarded by the University of Rhode Island to a student studying biological sciences.
- Phi Beta Kappa Society, 2015 – Honor society that inducts outstanding arts and sciences students from U.S. colleges and universities.

#### *Wissahickon High School*

- Michael Walker Memorial Track Scholarship, 2011 – Awarded by Wissahickon Senior High School to a track or cross country athlete exhibiting good school/team citizenship, leadership, and sportsmanship.
- National Honor Society, 2009-2011 – Honors students for excellence in areas of scholarship, leadership, service, and character.

## **Service and Leadership Roles**

### *Stony Brook University*

Dean's Search Committee for School of Marine and Atmospheric Sciences, Graduate Student Representative (August, 2017 – January, 2018). Reviewed applicant materials, participated in committee meetings and candidate interviews, organized student meetings with candidates, and advocated for students' interests in review of candidates.

Meet with an Oceanographer Initiative, Long Island Aquarium, Riverhead, NY (August 20, 2016). Taught local children basic concepts of climate change and oceanography through interactive activities.

Johns Hopkins Center for Talented Youth event at Stony Brook University (October 8, 2016). Assisted with organization and logistics of an educational event for middle school students from across the country.

New York Marine Sciences Consortium, Graduate Assistant, 2016. Assisted in planning and organizing the annual fall conference.

Women in Science and Engineering, Stony Brook University (April 2017). Assisted with a class teaching female undergraduate students field and laboratory techniques and concepts for studying marine physiology and climate change.

Graduate Student Club, School of Marine and Atmospheric Sciences – Officer, 2017-present. Organizing community-building events and fundraisers to bring a scholarly speaker to the school through the Akira Okubo Fund.

### *University of Rhode Island*

Marine Science Society (2011-2015) – Secretary, 2013-2014

### *Wissahickon Senior High School*

Cross Country (2008-2010) – Captain, 2010

Track and Field (2009, 2011)

Softball (2008, 2010)

## **Certifications**

Open Water SCUBA (2013) – SDI

Scientific Diver (2014) – AAUS

Advanced Diver (2014) – PADI

Rescue Diver (2014) – PADI

## **Other Skills**

- Immunohistochemical staining of fish tissue
- Respirometry to measure metabolic rates of aquatic animals
- Husbandry and experimentation on live marine animals including corals and fishes
- Collection of marine organisms using a beach seine
- Scientific SCUBA diving - underwater transects, fish counts, organism collection
- Reliable worker with great attention to detail
- Quickly learns and applies new concepts and skills
- Data entry and statistical analysis
- Resourceful problem solving and critical thinking
- Computer skills: MS Word, Excel, Powerpoint, R