

Jeremiah Seymour

Senior Aquarist/Marine Biologist

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EDUCATION

Master of Science (Biology)

Boston University, 2017

Thesis: Lunar cycles of reproduction in the clown anemonefish *Amphiprion percula*: individual level strategies and population level patterns.

Bachelor of Science (Psychology), *Magna Cum Laude*

University of Massachusetts, Boston, 2012

Minor: Biology, Computer Science, Member of Psi-Chi Honor Society

Publications in print – Peer-reviewed articles

Seymour JR, Barbasch TA, & Buston PM Lunar cycles of reproduction in the clown anemonefish *Amphiprion percula*: individual level strategies and population level patterns. *In prep.*

Wong MYL*, Uppaluri Ct, Medina A†, **Seymour JR**, & Buston PM (2016) The four elements of within group conflict in animal societies: an experimental test using the clown anemonefish. *Behavioral Ecology and Sociobiology* 70: 1467-1475.

Wong MYL*, Medina A†, Uppaluri Ct, Arnold S†, **Seymour JR**, & Buston, PM (2013) Consistent behavioral traits and behavioral syndromes in pairs of the false clown anemonefish *Amphiprion ocellaris*. *Journal of Fish Biology* 83: 207-213.

* denotes postdoc that I worked with in Buston lab; † denotes undergraduate that I mentored in Buston lab

Undergraduates Mentored

2016 – 2017 Daniel Chavez Andonie, Department of Biology, Boston University

2016 – 2017 Zachary Milot, Department of Biology, Boston University

2016 – 2017 Sadie Thompson, Department of Biology, Boston University

2016 – 2016 Braiam Rosado, Department of Biology, Boston University (SURF)

2015 – 2018 Alexander Maytin, Department of Biology, Boston University (UROP)

2015 – 2018 Cymone Reed, Department of Biology, Boston University (UROP)

2015 – 2016 Gabriella Smith, Department of Biology, Boston University (UROP)
2014 – 2017 Alex Ascher, Department of Biology, Boston University (UROP)
2014 – 2017 Spencer Showalter, Department of Biology, Boston University
2014 – 2016 Jarrod Moore, Department of Biology, Boston University (UROP, SURF)
2014 – 2016 Linda Wong, Department of Biology, Boston University (UROP)
2013 – 2016 Andrew Lacqua, Department of Biology, Boston University (UROP)
2013 – 2015 Athbah Almuhairi, Department of Biology, Boston University (UROP)
2013 – 2015 Cara Martone, Department of Biology, Boston University (UROP)
2012 – 2015 James Ferritto, Department of Biology, Boston University (UROP)
2012 – 2014 Philip Schmiede, Department of Biology, Boston University (UROP)
2012 – 2014 Derek Scolaro, Department of Biology, Boston University (UROP)
2011 – 2014 Diana Acosta, Department of Biology, Boston University (UROP, SURF)
2011 – 2013 Arianna Medina, Department of Biology, Boston University (UROP, SURF)
2011 – 2013 Curran Uppaluri, Department of Biology, Boston University (UROP)
2011 – 2013 Stacy Arnold, Department of Biology, Boston University (SURF)

High School Students Mentored

2016 – 2016 Syd, Cambridge Rindge and Latin School
2016 – 2016 Ali, Cambridge Rindge and Latin School
2014 – 2016 Jameelah Julien, Science Club For Girls
2013 – 2013 Gabriella Smith, Andover High School
2012 – 2013 Josephine Eugene, Cambridge Rindge and Latin School
2012 – 2013 Netaya Strothers, Science Club For Girls
2012 – 2013 Zainab Salejwala, Science Club For Girls

SPECIALIZED SKILLS

- Marine Husbandry: *Amphiprion* spp. Anemonefish
- Marine breeding of corals, invertebrates and fish.
- Live food culture (phytoplankton, artemia and rotifers)
- Wet lab plumbing
- Large-scale system design and maintenance.
- Low Voltage Electrical: controllers, sensors, lighting, pumps, dosers, relays transformers etc.
- Lab Experiences: Microscope use, water testing, solution sampling and preparation, setting up experiments, detailing and coding of animal behavior
- Computer Skills: Programming in Java, C, Python, R, Internet Security, Microsoft Office, Photoshop, Adobe lightroom and Premiere Pro
- Photography: digital SLR use and application
- Certified to teach SCUBA, CPR and First aid

PROFESSIONAL EXPERIENCE

Lab Manager

Boston University, Boston, MA

2011-2017

- Operated, repaired and maintained 114 aquariums
- Kept the lab ready for various university and government inspections
- Designed and programmed computer controller systems to help maintain sustainable habitat for the fish and marine life
- Trained undergraduate and graduate students in aquarium husbandry care and how a marine lab operates.
- Helped teach interns about marine life through having them learn what is needed to keep the animals alive
- Inventoried and ordered all livestock, live foods and materials for lab
- Helped facilitate research

Owner/Aquarist

Boston Aquatic Technologies, Boston, MA

2008-2011

- Designed and installed 1,500-gallon reef aquarium in Grenada, the largest reef tank in the West Indies
- Designed reef tanks and aquarium holding facilities from start to finish
- Created detailed maintenance plans and developed custom water quality parameters for established systems
- Trained company employees to manage and operate complex systems
- Offered routine maintenance, aquarium advising and counseling services to the public and private aquarium industry
- Specialized in many types of aquatic environments including seahorse habitats, jellyfish tanks, shark ponds, stingray pools and giant living coral reef tanks

PADI-Open Water/Specialty SCUBA Instructor

Devotion 2 Ocean Dive Center, St. Georges, Grenada, West Indies

2009-2010 PADI # 240265,

- Instructed open water courses: lead knowledge development in the classroom and diving skills in the pool and certifying students to dive on their own
- Taught specialty SCUBA courses: Underwater Photography, Wreck Specialty, Deep Specialty, Fish and Coral Identification, Underwater Navigation, Search & Rescue, and Peak Performance Buoyancy

PADI-Divemaster

Scubatech Dive Center, St. Georges, Grenada, West Indies

2008-2010 PADI # 240265

- Assisted with all the daily activities associated with the dive center
- Greeted and entertained guests during the entire dive experience

- Educated divers about fish and invertebrate identification in marine environments
- Led dive and snorkeling trips, loaded/unloaded the boat and filled scuba tanks
- Assisted with dive courses
- Led boat tours of Grenada

Senior Biologist

Gibbons Aquaria, Wakefield, MA

2006-2008

- Installed and maintained tropical freshwater and live coral reef aquarium systems that averaged 500 gallons in capacity
- Performed water changes, water quality and routine maintenance
- Managed livestock, took inventory and decided which animals to add or remove

Senior Machine Operator

Labombard Machine, Methuen, MA

2002-2005

- Set up, operated and adjusted screw machines according to the various demands
- Cleaned parts, sharpened tools and performed quality control over the parts while packing

Apprentice Plumber

Bilo Plumbing and Heating, Hamilton, MA

1999-2002

- Installed and maintained plumbing air conditioning and radiant heating systems in large, new houses
- Used plans to navigate plumbing and heating routes through house

Field Hand

Tendercrop Farm, Newburyport, MA

Supervisor: Mark Kozazcki

- Operated various pieces of farm machinery and attended to field operations

VOLUNTEER EXPERIENCE

Senior Volunteer/Intern

New England Aquarium (Boston, MA) 2004 - 2007

Advisors: Caroly Shumway, Ph.D., & Justin Scace, M.S.,

- Assisted with neuroscience research projects with African cichlids
- Managed animal husbandry to ensure species survival and prevention of secondary health issues during the stress of being tested
- Helped to identify the neural features underlying the effects of habitat complexity on brain and behavior
- Helped identify the social and neural features underlying mating preferences effect on brain/behavior

- Assisted with nissl and immunohistochemical staining and counting stained cells with microscopes
- Explored the role of environmental and social plasticity in observed species-specific differences, set up ran, and coded maze and visual acuity experiments.
- Oversaw weekend care and husbandry needs of African cichlids used in research projects
- Monitored behavior, water changes, feeding, temperature readings, filtration adjustments, and plumbing of new systems
- “Volunteer of the month” March 2006
- “Sea Star” in *Aqualog* Magazine Spring 2005 issue

PERSONAL INTERESTS

- Breeding marine fish
- Computer science
- Animal training
- Martial arts
- Hiking
- Skiing
- Yoga