

# Emily M. Adamczyk

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## EDUCATION

- University of British Columbia**, PhD student in Zoology 2015 – present  
Marine Ecology and Conservation. Advisor: Mary O'Connor
- University of California – San Diego**, Master of Science in Biology Sept. 2014  
Thesis: Effects of food web interactions and climate on  $p\text{CO}_2$  in San Diego Reservoirs. Advisor: Jonathan Shurin
- University of California – San Diego**, Bachelor of Science in General Biology Sept. 2013
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## FELLOWSHIPS AND AWARDS

- 2016 University of British Columbia International Tuition Award (\$2,100)
- 2015 University of British Columbia International Tuition Award (\$2,100)
- 2015 University of British Columbia Four Year Doctoral Fellowship (\$72,800)
- 2012 Capital One Academic All-District Team (CoSIDA), University of California, San Diego  
(In recognition of accomplishments as a college scholar-athlete excelling in both academics and athletics)
- 2012 Athlete of the Year, University of California, San Diego
- 2012 Athletic Director's Honor Roll, University of California, San Diego
- 2012 All-American Swimmer, University of California, San Diego
- 2011 All-American Swimmer, University of California, San Diego
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## PUBLICATIONS

**Adamczyk, EM** and JB Shurin 2015. Seasonal Changes in Plankton Food Web Structure and Carbon Dioxide Flux from Southern California Reservoirs. *PLoS ONE* 10(10): e0140464. doi:10.1371/journal.pone.0140464

**Adamczyk, EM** and JB Shurin. 2014. Effects of trophic interactions and climate on CO<sub>2</sub> flux from reservoirs. *UC San Diego Saltman Quarterly* 11:49.

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## PRESENTATIONS

**Adamczyk, E.M.** and M.I. O'Connor. 2016. A stitch in time: Weaving together species interactions in the Salish Sea. *Salish Sea Ecosystem Conference*.

**Adamczyk, E.M.** and J.B. Shurin. 2014. Impacts of seasonal variation in trophic interactions and climate on carbon dioxide flux from San Diego reservoirs. *99th Annual Meeting of the Ecological Society of America* PS 5.

**Adamczyk, E.M.** and J.B. Shurin. 2014. How do seasonal changes in food web dynamics and climate affect carbon dioxide flux from San Diego reservoirs? *Annual UCSD Biology Student Research Showcase*.

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## OUTREACH ACTIVITIES

- 2016      **Science Fair Judge**, Greater Vancouver Regional Science Fair, University of British Columbia
- Judged science posters of grade 9-11 high school students and gave helpful feedback on where they could improve on communicating their research
- 2014      **Whale Watching Volunteer**, Birch Aquarium at Scripps Institution of Oceanography, University of California, San Diego
- Educate guests on gray whales, local marine science, and promote conservation by participating in boat tours off of San Diego Bay
- 2014 – 2015      **Discovery Lab Assistant**, Birch Aquarium at Scripps Institution of Oceanography, University of California, San Diego
- Assist lab instructors with educating K-12 students on marine science and conservation through hands-on laboratory activities
- 2013 – 2015      **Aquarist Assistant**, Birch Aquarium at Scripps Institution of Oceanography, University of California, San Diego (Supervisor: Leslee Matsushige)
- Assist aquarists with marine animal husbandry and SCUBA support
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- 2013      **Exhibitor**, San Diego Festival of Science and Engineering, University of California, San Diego SCUBA club (SeaDeucers)
- Educated attendees on the technology behind SCUBA diving through hands-on experiences with diving equipment
- 2012 – 2013      **Tide Pool Interpreter**, Birch Aquarium at Scripps Institution of Oceanography, University of California, San Diego
- Educated visitors on intertidal communities, local conservation, and Scripps Institution of Oceanography research
- 2010      **Snowy Plover Docent**, Coal Oil Point Reserve, University of California, Santa Barbara
- Raised awareness in local community on the importance of protecting the threatened western snowy plover (*Charadrius nivosus nivosus*)
- 2005 – 2008      **Student Naturalist**, Eaton Canyon Nature Center, Department of Parks and Recreation, County of Los Angeles
- Educated visitors on basic chaparral ecology and functions of local ecosystems and maintained a native plant nursery for habitat restoration purposes
  - Assisted staff with animal husbandry and maintained native fauna exhibits
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## **TEACHING AND MENTORING EXPERIENCE**

### Teaching Assistant

- Fall 2016      **UBC**, BIOL 402, Aquatic Ecology  
(Supervisor: Dr. Mary O'Connor)
- Spring 2014      **UCSD**, BIEB 176, Conservation and the Human Predicament  
(Supervisors: Dr. David Woodruff and Dr. Shirley Strum)
- Winter 2014      **UCSD**, BILD 3, Organismic and Evolutionary Biology  
(Supervisor: Dr. David Woodruff)
- Fall 2013      **UCSD**, BIEB 102, Introductory Ecology – Organisms and Habitat  
(Supervisor: Dr. Jonathan Shurin)

### Mentor

- 2016 – present      **UBC** BSc Honors student  
(Co-advised by Dr. Mary O'Connor)
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2014 – present      **UCSD Preuss School** high school student

2014              **UCSD** Volunteer Undergraduate Research Assistants (5 students); Shurin Lab

2013-2014      **UCSD** BSc Environmental Systems senior intern  
(Co-advised by Dr. Jonathan Shurin)

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## RESEARCH EXPERIENCE

2013 – 2014      **Graduate Student**, Shurin Lab, University of California, San Diego

- Master's thesis focused on seasonal changes in food web interactions and climate on carbon dioxide flux from San Diego reservoirs (Supervisor: Dr. Jonathan Shurin)

Summer 2013      **Field Research Assistant**, Yosemite National Park and Inyo National Forest, Shurin Lab, University of California, San Diego

- Sampled lakes to determine roles of fish of fish along a temperature gradient (Supervisor: Ph.D. student Celia Symons)

Winter – Spring 2013      **Undergraduate Researcher**, Shurin Lab, University of California, San Diego

- Ran a series of grazing trial experiments to determine how grazing rates differed across various species of freshwater copepods and algae (Supervisor: Lab Technician Rachel Abbott)

Spring 2010      **Habitat Restoration Intern**, Cheadle Center for Biodiversity and Ecological Restoration, University of California, Santa Barbara

- Restored coastal sage scrub and salt marsh habitats (Supervisor: Darwin Richardson)

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## ATHLETIC EXPERIENCE

2012              USA Swimming Olympic Trials Competitor

2012              NCAA Division II National Champion; 200 Breaststroke

2010 – 2012      NCAA Division II Intercollegiate Swimmer, University of California, San Diego

2009 – 2010      NCAA Division I Intercollegiate Swimmer, University of California, Santa Barbara

2008              USA Swimming Olympic Trials Competitor

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## **RELEVANT SKILLS**

### **Field**

Backcountry Field Work, Beach Seining, Basic Navigation Capabilities, Canoe/Kayak/Motorboat Operation, Familiarity with Bird and Plant Species of the Southwestern United States, Habitat Restoration Techniques, HOBO Loggers, GPS Experience, Quadrats, Sediment Cores, Scientific SCUBA Diving (cold water), Transects, Water Chemistry Sonde, Zooplankton Collection, Underwater Rescue

### **Research**

Analysis for Fatty Acids in Algae, Chlorophyll-a Analysis, Culturing Algae and Zooplankton, Fluorescence Staining, Phytoplankton Analysis, Familiarity with Zooplankton and Algae Identification (Freshwater), Estimating Bacteria and Chytrid Fungi Abundance, Invertebrate Identification (Marine), Particulate Organic Matter Analysis, Dissolved Organic Carbon Analysis

### **Software**

R, MS Office Suite, ImageJ, JMP

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## **CERTIFICATIONS**

Scientific Diver (CAUS Level 1)  
Rescue SCUBA Diver (PADI)  
Enriched Air SCUBA Diver (PADI)  
CPR/AED/First Aid (American Red Cross)