

## EDUCATION

**Ph.D., Zoology (in progress)** Expected May 2020  
University of Wisconsin - Madison

**M.S., Biology - aquatic science concentration** December 2014  
University of Wisconsin - La Crosse

Thesis: *Glossosoma intermedium* case periphyton as a nutritionally beneficial resource for lotic communities

**B.S., Biology - aquatic science concentration, chemistry minor** May 2011  
University of Wisconsin - La Crosse

---

## PUBLICATIONS

**Mooney, R.J.**, E.A. Strauss, and R.J. Haro. In press. Nutrient-specific foraging by *Glossosoma intermedium* larvae leads to conspecific case grazing. *Freshwater Science*

**Mooney, R.J.**, E.A. Strauss, and R.J. Haro. 2014. Nutrient recycling by caddisflies alleviates phosphorus limitation in case periphyton. *Freshwater Science* 33(4):1086-1092.

---

## RESEARCH EXPERIENCE

### Research Assistant

University of Wisconsin - Madison, Center for Limnology Winter 2015 - present

- Analyzing the inter- and intra- specific stoichiometric variation of two Lake Tanganyika cichlids, *Tropheus brichardi* and *Petrochromis kasumbe*

### Research Assistant

University of Wisconsin - La Crosse, River Studies Center Winter 2014 - Spring 2014

- Used Scanning Electron Microscopy/Energy-Dispersive X-ray Spectroscopy to map elemental distribution on periphyton colonizing caddisfly cases

### Master's Thesis

University of Wisconsin - La Crosse Fall 2011 - Winter 2014

- Received a total of \$2,200 to investigate *Glossosoma intermedium* case periphyton as a nutritionally beneficial resource for lotic grazing communities
- Presented methodology at the 2013 Upper Midwest Stream Restoration Symposium and results at the 2013 Society for Freshwater Science Conference and the 2014 Joint Aquatic Science Meeting

### Undergraduate Research

University of Wisconsin - La Crosse Fall 2010 - Spring 2011

- Received a total of \$1,323 to investigate the consumer-driven nutrient recycling between a keystone, lotic herbivore and its periphyton resources
- Presented results at the 2011 UW-L Celebration of research and creativity, the 2011 Sigma Xi International Research Conference, the 2011 Mississippi River Research Consortium, and the 2012 Society for Freshwater Science Conference

### Dean's Distinguished Undergraduate Research Fellowship

University of Wisconsin - La Crosse

Summer 2010

- Received a total of \$3,150 to investigate the effects of phosphorus on phytoplankton communities in an Upper Mississippi River backwater lake
  - Presented results at the 2011 UW-L Celebration of research and creativity and the 2011 Mississippi River Research Consortium
- 

## **TEACHING AND ADVISING EXPERIENCE**

### **Teaching Assistant**

Fall 2015

University of Wisconsin – Madison

- Lead discussion sections that covered material from cell biology, genetics, and ecology units within the Zoology 101 class

### **Biology and Chemistry Review Session Instructor**

Summer 2014 - Spring 2015

University of Wisconsin - La Crosse

- Lead review sessions for undergraduate students enrolled in a First Year Research Experience program

### **McNair Scholars Graduate Assistant**

Fall 2013 - Summer 2014

University of Wisconsin - La Crosse

- Assisted scholars with poster and oral presentation preparation, statistical analysis, grant writing, graduate school applications, and travel to national conferences
- Organized travel and accompanied McNair scholars and SSS students to the WAEOPP McNair and SSS Retreat and the National McNair Conference
- Organized travel and accompanied McNair scholars on visits to various campuses in the Midwestern United States

### **Biology Laboratory Instructor**

Fall 2011 - Spring 2013

University of Wisconsin - La Crosse

- Instructed over 250 students in introductory biology laboratory and helped prepare unit quizzes

### **Teaching Assistant**

Fall 2010/Spring 2012

University of Wisconsin - La Crosse

- Prepared Limnology laboratory and Standard Methods of Water Analysis laboratory

### **Guest Lecturer**

University of Wisconsin - La Crosse, Stream Ecology

Spring 2014

- Lectured on consumer-driven nutrient recycling by lotic invertebrates to a stream ecology class of 20 undergraduate and graduate students

University of Wisconsin - La Crosse, First Year Research Experience

Fall 2013

- Lectured on stream biomonitoring to a group of 14 students participating in a First Year Research Experience program and organized a field research day for the group

Longfellow Middle School

Fall 2011

- Lectured on the ecology of freshwater ecosystems to three classes of 30 seventh grade students

### **Laboratory Assistant**

University of Wisconsin - La Crosse, Girls in Science

June 2010

- Assisted with preparation and completion of two water quality activities designed for 7<sup>th</sup> and 8<sup>th</sup> grade students
- 

### **HONORS**

Received a John Jefferson Davis Travel Award to present at the 2016 ASLO meeting in Santa Fe, New Mexico

Awarded a UW-Madison Department of Zoology Fellowship for Spring and Summer 2016

Best poster presentation (basic research) – 2013 Society for Freshwater Science Conference

Poster Competition Runner-Up – 2013 Upper Midwest Stream Restoration Symposium

Best undergraduate research presentation (oral or poster) – 2012 Society for Freshwater Science Conference

Best student platform presentation – 2012 Mississippi River Research Consortium

Superior graduate poster in ecology – 2011 Sigma Xi International Research Conference

Best undergraduate poster presentation – 2011 Annual UW-La Crosse Celebration of Research and Creativity

Received a UW-L Dean's Distinguished Fellowship grant, a UW-L Undergraduate Research and Creativity grant, and a UW -L Research, Service, and Educational Leadership Grant for a total of \$4,023.00

---

### **PRESENTATIONS**

Society for Freshwater Science: Mooney, R.J., E.A. Strauss, and R.J. Haro. 2014. Poster. *Glossosoma intermedium* as ecosystem engineers: The role of larvae in phosphorus remineralization and invertebrate diversity.

Society for Freshwater Science: Mooney, R.J., E.A. Strauss, and R.J. Haro. 2013. Poster. *Glossosoma intermedium* case periphyton as a nutritionally beneficial resource for lotic grazing communities.

Upper Midwest Stream Restoration Symposium: Mooney, R.J., E.A. Strauss, and R.J. Haro. 2013. Poster. Unique behavior of an aquatic insect may allow it to overcome nutrient limitation in southwestern Wisconsin streams.

Society for Freshwater Science: Mooney, R.J., E.A. Strauss, and R.J. Haro. 2012. Oral. You graze my back and I'll feed yours: The stoichiometric relationships among the case-grazing caddisfly, *Glossosoma intermedium*, and its environment.

Mississippi River Research Consortium: Mooney, R.J., E.A. Strauss, and R.J. Haro. 2012. Oral. Stoichiometric analysis of the relationship between the case-grazing caddisfly, *Glossosoma intermedium*, and its periphyton resources.

Mississippi River Research Consortium: Mooney, R.J. and E.A. Strauss. 2011. Poster. Effects of phosphorus on phytoplankton communities in an Upper Mississippi River backwater lake.

## **Robert J. Mooney**

rjmooney@wisc.edu, robertmooney.weebly.com

---

Sigma Xi Annual Meeting: Mooney, R.J., E.A. Strauss, and R.J. Haro. 2011. Poster. Consumer-driven nutrient recycling between a keystone, lotic herbivore and its periphyton resources.

UW-La Crosse Celebration of Research and Creativity: Mooney, R.J., E.A. Strauss, and R.J. Haro. 2011. Poster. Consumer-driven nutrient recycling between a keystone, lotic herbivore and its periphyton resources.

UW-La Crosse Celebration of Research and Creativity: Mooney, R.J. and E.A. Strauss. The effects of phosphorus on phytoplankton communities in an Upper Mississippi River backwater lake. Poster presentation. April 2011. La Crosse, WI.

---

### **PROFESSIONAL SERVICE**

Ad hoc reviewer – *Freshwater Science*

Served as the student representative on the board of the 2013 Mississippi River Research Consortium

---

### **EMPLOYMENT**

#### **Research Assistant**

University of Wisconsin - La Crosse

Summer 2011/Summer 2012

- Collected and processed aquatic organisms from 11 lakes in the Laurentian Great Lakes region

#### **Field Technician**

University of Wisconsin - La Crosse

July 2010

- Collected and prepared water and top and deep sediment samples from 80 sites in a Minnesota lake
-