

## 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

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## EMPLOYMENT

**Research Assistant** Summer 2011/Summer 2012  
University of Wisconsin - La Crosse

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

**Field Technician** July 2010  
University of Wisconsin - La Crosse

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

**Research Assistant** Winter 2014 - Ongoing  
University of Wisconsin - La Crosse, River Studies Center

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

**Master's Thesis** Fall 2011 - Winter 2014  
University of Wisconsin - La Crosse

- 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** Fall 2010 - Spring 2011  
University of Wisconsin - La Crosse

- 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** Summer 2010  
University of Wisconsin - La Crosse

## **Robert J. Mooney**

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- 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
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### **PUBLICATIONS**

**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.

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

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### **HONORS**

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

#### **Best poster presentation (basic research) - Society for Freshwater Science Conference**

Mooney, R.J., E.A. Strauss, and R.J. Haro. 2013. *Glossosoma intermedium* case periphyton as a nutritionally beneficial resource for lotic grazing communities. Poster presentation. Jacksonville, FL.

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

#### **Poster Competition Runner-Up - Upper Midwest Stream Restoration Symposium**

Mooney, R.J., E.A. Strauss, and R.J. Haro. 2013. Unique behavior of an aquatic insect may allow it to overcome nutrient limitation in southwestern Wisconsin streams. Poster presentation. La Crosse, WI.

#### **Best undergraduate research presentation (oral or poster) - Society for Freshwater Science Conference**

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

#### **Best student platform presentation - Mississippi River Research Consortium**

Mooney, R.J., E.A. Strauss, and R.J. Haro. 2012. Stoichiometric analysis of the relationship between the case-grazing caddisfly, *Glossosoma intermedium*, and its periphyton resources. Oral presentation. La Crosse, WI.

#### **Superior graduate poster in ecology - Sigma Xi International Research Conference**

Mooney, R.J., E.A. Strauss, and R.J. Haro. 2011. Consumer-driven nutrient recycling between a keystone, lotic herbivore and its periphyton resources. Poster presentation. Raleigh, North Carolina.

#### **Best undergraduate poster presentation - Annual UW-La Crosse Celebration of Research and Creativity**

Mooney, R.J., E.A. Strauss, and R.J. Haro. 2011. Consumer-driven nutrient recycling between a keystone, lotic herbivore and its periphyton resources. Poster presentation. La Crosse, WI.

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

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### **TEACHING AND ADVISING EXPERIENCE**

#### **Teaching Assistant**

University of Wisconsin – Madison

Fall 2015

- Lead discussion sections that cover 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
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