Curriculum Vitae Rachel M. Penczykowski

CONTACT INFORMATION

School of Biology
Georgia Institute of Technology
310 Ferst Drive
Atlanta, GA 30332
rachelp@gatech.edu

EDUCATION

Georgia Institute of Technology, Atlanta, GA — Ph.D., in progress
Anticipated date of completion: 2013
Advisor: Dr. Meghan A. Duffy
Research interests: Interactions between infectious diseases and aquatic ecosystems

University of Wisconsin, Madison, WI — B.S., 2007
Majors: Biology and Music Performance
Research Advisor: Dr. Stephen R. Carpenter

FELLOWSHIPS

National Science Foundation Graduate Research Fellowship — 2010 – 2013
Georgia Tech President's Fellowship — 2008 – 2012

HONORS AND AWARDS

P.E.O. Scholar Award ($15,000) — 2012

PUBLICATIONS

Duffy, M. A., J. Housley Ochs, **R. M. Penczykowski**, D. J. Civitello, C. A. Klausmeier, and S. R. Hall. 2012. Ecological context influences epidemic size and parasite-driven evolution. *Science*, 335:1636–1638.

Duffy, M. A., J. M. Housley, **R. M. Penczykowski**, C. E. Cáceres, and S. R. Hall. 2011. Unhealthy herds: indirect effects of predators enhance two drivers of disease spread. *Functional Ecology*, 25:945–953.

Thomas, S. H., J. M. Housley, A. N. Reynolds, **R. M. Penczykowski**, K. H. Kenline, N. Hardegree, S. Schmidt, and M. A. Duffy. 2011. The ecology and phylogeny of oomycete infections in *Asplanchna* rotifers. *Freshwater Biology*. 56:384-394.

Penczykowski, R. M., S. E. Forde, and M. A. Duffy. 2011. Rapid evolution as a possible constraint on emerging infectious diseases. *Freshwater Biology*. 56:689-704.

Kamarainen, A. M., **R. M. Penczykowski**, M. C. Van de Bogert, P. C. Hanson, and S. R. Carpenter. 2009. Phosphorus sources and demand during summer in a eutrophic lake. *Aquatic Sciences*. 71:214-227.

PRESENTATIONS

Penczykowski, R. M., M. A. Duffy, and S. R. Hall. Habitat structure, thermal stratification, and ecological drivers of disease in the plankton. ESA Annual Meeting. August 12, 2011. Austin, Texas.

Penczykowski, R. M., S. R. Hall, and M. A. Duffy. Consequences of variation in disease resistance: Is there a within-species dilution effect? ESA Annual Meeting. August 7, 2009. Albuquerque, New Mexico.

Penczykowski, R. M., A. M. Kamarainen, and S. R. Carpenter. Epilimnetic phosphorus demand in Lake Mendota. UW-Madison Center for Limnology Seminar. February 6, 2008. Madison, Wisconsin.

POSTERS

Penczykowski, R. M., S. R. Hall, and M. A. Duffy. Consequences of variation in disease resistance: Is there a within-species dilution effect? ASLO Summer Meeting. June 8, 2010. Santa Fe, New Mexico.

TEACHING EXPERIENCE

Ecology Lab – Georgia Tech Teaching Assistant	Fall 2008 and 2009
Ecology Lecture – Georgia Tech Teaching Assistant	Summer 2009
Math Models in Biology – Georgia Tech Teaching Assistant	Spring 2009
College for Kids – UW-Madison Led limnology workshop for sixth graders	Summer 2008

UNDERGRADUATES MENTORED

Alison E. Burger	Spring 2011
Hema Sundar	Spring 2011 – Spring 2012
Abigail N. Reynolds	Spring 2009 – Fall 2010
Grace M. Wilkinson – NSF REU Program	Summer 2009

LEADERSHIP

Biology Graduate Student Association – Georgia Tech 2010
Co-President

PROFESSIONAL SOCIETIES

Ecological Society of America (ESA)
American Society of Limnology and Oceanography (ASLO)