

Joseph L. Simonis

Last updated: January 10, 2012

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Education

Ph.D. Ecology and Evolutionary Biology, Cornell University, expected 2012

Committee: Nelson Hairston, Jr. (chair), Stephen Ellner, Alexander Flecker, and Anurag Agrawal
National Science Foundation Graduate Research Fellow (2007-2012)

B.S. Integrative Biology, University of Illinois: Urbana-Champaign, 2006

Honors: Summa Cum Laude, Bronze Tablet (University Honors), Thesis Honors with High Distinction

Thesis Advisor: Dr. Carol Shearer

Student at University of California: San Diego (2002-2004)

Fields of Interest

Population and Community Ecology, Theoretical Ecology, Predator-Prey Dynamics, Dispersal, Limnology

Research Positions

Cornell University, Department of Ecology and Evolutionary Biology

Ph.D. Candidate and NSF Graduate Research Fellow, 2007 -

Florida State University, Department of Biological Sciences

Field and Lab Technician, Drs. Nora Underwood and Stacey Halpern, 2006-2007

University of Illinois, School of Integrative Biology

Independent Undergraduate Researcher, Dr. Carol Shearer, 2005-2006

REU Researcher, Drs. Carla Cáceres and Spencer Hall, at Kellogg Biological Station, Summer 2005

Research Assistant, Drs. Andrew Suarez and Chadwick Tillberg, 2005-2006

Teaching Experience

Course Instructor

BioEE 7600: Ecological Design and Analysis using R, Spring 2010, Fall 2011
Created and led graduate-level course on ecological data analysis [15 students]

BioEE 7600: Intro to Programming in R, Fall 2010
Co-created and led graduate-level intensive short workshop on programming [20 students]

Teaching Assistant

BioEE 2780 [Track 2]: Evolutionary Biology, Writing-in-the-Majors section, Fall 2009
 Designed and led writing-intensive section [15 students] for lecture course [300 students]

Guest Lectures

2011: Field Animal Behavior (BioSM 3290), Field Ornithology (BioSM 3740)

2010: Field Ornithology (BioSM 3740)

2009: A Marine Approach to Intro. Biology (BioSM 1110), Genetics of Marine Diversity (BioSM 4720),
 Marine Invertebrates (BioEE 3730)

2008: Field Ecology (BioEE 2680)

Publications*In Review*

Bell, R. C., A. Belmaker, J. M. Brown, C. Couch, K. Francisco, M. E. Manuel, K. M. Marchetto, J. L. Simonis, R. Q. Thomas, and J. P. Sparks. Effectiveness of bio-control in mediating *Erythrina* gall wasp (*Quadrastichus erythrinae*) infestations of Wiliwili trees (*Erythrina sandwicensis*). Submitted, *Biotropica*.

Simonis, J. L., D. Neuharth-Keusch[†], and I. Hewson. Aquatic bacterial assemblage and bacteriophage variability in the supra littoral zone of Appledore Island, Gulf of Maine. In Review, *FEMS Microbiology Ecology*.

Simonis, J. L. Demographic stochasticity reduces the synchronizing effect of dispersal in predator-prey metapopulations. In Review, *Ecology*.

Hairston, N. G. Jr., M. T. Booth, C. C. Carey, S. M. Collins, C. M. Dalton, and J. L. Simonis. Plumbing the aquatic-terrestrial ecology divide. In Review, *Oikos*.

Simonis, J. L. Predator ontogeny dictates trophic cascade strength in freshwater rock pools. In Review, *Oecologia*.

Published

Capps, K. A., M. T. Booth, S. M. Collins, M. A. Davison, J. M. Moslemi, R. W. El-Sabaawi, J. L. Simonis, and A. S. Flecker. 2011. Nutrient diffusing substrata: a field comparison of commonly used methods to assess nutrient limitation. *Journal of the North American Benthological Society* **30**: 522-532.

Article featured in NABS Spotlight (Issue 10, Spring 2011).

Hall, S. R., J. L. Simonis, R. M. Nisbet, A. J. Tessier, and C. E. Cáceres. 2009. Resource ecology of virulence in a planktonic host-parasite system: an explanation using dynamic energy budgets. *American Naturalist* **174**: 149-162.

Hall, S. R. C. Becker, J. L. Simonis, M. A. Duffy, A. J. Tessier, and C. E. Cáceres. 2009. Friendly competition: evidence for a dilution effect among competitors in a planktonic host-parasite system. *Ecology* **90**: 791-801.

Simonis, J. L., H. A. Raja and C. A. Shearer. 2008. Extracellular enzymes and soft-rot decay: are ascomycetes important degraders in freshwater? *Fungal Diversity* **31**: 135-146. PDF

[†]Indicates undergraduate co-author

Presentations

Society Meetings

Simonis, J. L. 2011. Oral Presentation. Ninth International Symposium on Cladocera. Verbania, Italy

Simonis, J. L. 2011. Oral Presentation. Ecological Society of America Meeting. Austin, Texas

Simonis, J. L. 2010. Oral Presentation. Joint meeting of the American Society for Limnology and Oceanography and the North American Benthological Society. Santa Fe, New Mexico

Simonis, J. L., S. R. Hall, C. E. Cáceres, and A. J. Tessier. 2008. Poster Presentation. Ecological Society of America Meeting. Milwaukee, Wisconsin

Simonis, J. L., H. A. Raja and C. A. Shearer. 2006. Poster Presentation. Mycological Society of America Meeting. Quebec City, Quebec, Canada

Local Symposia

Biogeochemistry and Environmental Biocomplexity Graduate Student Mini-Symposium. Cornell University. Oral Presentations: 2009, 2010, 2011

Ecology and Evolutionary Biology Graduate Student Research Symposium. Cornell University. Oral Presentations: 2008, 2010 (Jan.), 2010 (Dec.), 2011

Graduate Student Symposium. Cary Institute for Ecosystem Studies. Oral Presentations: 2009, 2010

Celebration of a Centennial of Limnology. Cornell University. Poster Presentation: 2009

Ecology and Evolutionary Biology Department Lunch Bunch. Cornell University. Oral Presentations: 2008, 2009

Integrative Biology Undergrad. Research Symposium. University of Illinois. Oral Presentation: 2006

Research Grants & Awards

National Science Foundation Doctoral Dissertation Improvement Grant, 2011 (\$14,773)

Orenstein Award, Dep't of Ecology and Evol. Biology, 2011 (\$750)

Graduate Student Travel Grant, Ninth International Symposium on Cladocera (*ca.* \$700)

A.W. Mellon Foundation Small Grant, 2010 (\$1,500)

Cornell University Graduate School Research Travel Grant, 2010 (\$1,985)

Sigma Xi (Cornell Chapter) Research Grant, 2009 (\$800)

Cornell University Program in Biogeochemistry and Environmental Biocomplexity Small Grants, 2008 (\$3,000), 2009 (\$4,000), 2010 (\$3,941), 2011 (\$3,923)

Cornell University Graduate School Conference Grants, 2008 (\$350), 2010 (\$515), 2011 (\$440)

Cornell University Dep't of Ecology and Evol. Bio. Summer Research Awards, 2008 (\$500), 2009 (\$750)

Shoals Marine Lab Summer Research Awards, 2008, 2009, 2010, 2011

Fellowships and Other Awards

Robert H. Whittaker Award for Outstanding Graduate Student Presentation at the Ecology and Evolutionary Biology Graduate Student Research Symposium, 2011

Overall Best Sandwich and Most Innovative Sandwich; First Annual Harry W. Greene Grilled Cheese Competition, Dep't of Ecology and Evol. Biology, Cornell University, 2011

NSF Graduate Research Fellowship, 2007 - 2012

Harriett Long Award, School of Integrative Biology, University of Illinois, 2006

Professional Societies

Society for Conservation Biology (Student Member), 2011-

American Association for the Advancement of Science (Member), 2010 -

American Society of Limnology and Oceanography (Student Member), 2010 -

Sigma Xi (Associate Member, Cornell Chapter), 2009 -

Ecological Society of America (Student Member), 2005 -

Reviewer for

American Naturalist, *Hydrobiologia*

Other Associations & Activities

Cornell Student Library Advisory Council (Member), Cornell University, 2011 -

EnviroMentors Program (Mentor), Cornell University, 2011 -

Undergraduate Biology Honors Program (Reviewer), Cornell University, 2011

Thesis research advisor for Kara Pellowe, Cornell University undergraduate, 2010 -

Shoals Marine Lab Research Internship for Field Science (Mentor), 2010, 2011

Floating Classroom (Volunteer), Ithaca, NY, 2010

Expanding Your Horizons Conference (Volunteer), Cornell University, 2010, 2011

Biogeochemistry and Environmental Biocomplexity Seminar Committee (Chair 2009 - 2011), Cornell University, 2009 - 2012

Quantitative Biology with R Lunch Bunch (Coordinator, volunteer), 2008 -

GSA, Field of Ecology and Evolutionary Biology, Cornell University, 2007 -

GSA, Biogeochemistry and Environmental Biocomplexity Program, Cornell University, 2007 -

Campus-to-Coast Program (Volunteer), Cornell University, 2007

Miscellaneous

Computer Skills: FileMaker, L^AT_EX, R, SAS.