

CURRICULUM VITAE

JOSEPH (JOSIE) L. SIMONIS

she/her or they/them pronouns

DAPPER

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Cramer Fish Sciences

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EDUCATION

PhD	Ecology and Evolutionary Biology, Cornell University	2013
BS	Integrative Biology, University of Illinois: Urbana-Champaign	2006

RECENT EMPLOYMENT

Cramer Fish Sciences

Biometrician: 2015-Present

DAPPER [Design, Analysis, & Prediction for Population Ecology Research]

Founder, Owner, & Lead Scientist: 2015-Present

Lincoln Park Zoo

Adjunct Scientist, Alexander Center for Applied Population Biology & Urban Wildlife Institute: 2015-Present

Research Scientist, Alexander Center for Applied Population Biology: 2015

Postdoctoral Fellow, Alexander Center for Applied Population Biology: 2013-2015

Cornell University

National Science Foundation Graduate Research Fellow: 2007-2013

Florida State University

Research Technician, Underwood Laboratory: 2006-2007

PUBLICATIONS

Peer-Reviewed Manuscripts

Pellowe-Wagstaff, K. E.[†] and J. L. Simonis. 2014. The ecology and mechanisms of overflow-mediated dispersal in a rock-pool metacommunity. *Freshwater Biology* **59**:1161-1172.

Simonis, J. L. and J. C. Ellis. 2014. Bathing birds bias β -diversity: Frequent dispersal by gulls homogenizes fauna in a rock-pool metacommunity. *Ecology* **95**:1545-1555.

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. 2013. Effectiveness of bio-control in mediating *Erythrina* gall wasp (*Quadrastichus erythrinae*) infestations of Wiliwili trees (*Erythrina sandwicensis*). *Journal of the Torrey Botanical Society* **140**:215-224.

Simonis, J. L. 2013. Predator ontogeny determines trophic cascade strength in freshwater rock pools. *Ecosphere* **4**:art62.

Simonis, J. L. 2013. Prey (*Moina macrocopa*) population density drives emigration rate of its predator (*Trichocorixa verticalis*) in a rock-pool metacommunity. *Hydrobiologia* **715**:19-27.

Simonis, J. L. 2012. Demographic stochasticity reduces the synchronizing effect of dispersal in predator-prey metapopulations. *Ecology* **93**:1517-1524.

Simonis, J. L., D. Neuhauser-Keusch[†], and I. Hewson. 2012. Aquatic bacterial assemblage variability in the supra littoral zone of Appledore Island, Gulf of Maine. *FEMS Microbiology Ecology* **80**:501-508.

- 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.
- 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.

Technical Reports

- Cramer, S. P., K. Sellheim, P. J. Haverkamp, K. Ceder, and J. L. Simonis. 2015. Lassen Lodge hydroelectric project: fish habitat survey and capacity modeling final report, South Fork Battle Creek. Prepared for Rugraw, LLC. Cramer Fish Sciences, Gresham, OR.
- Faust, L., J. L. Simonis, R. Harrison, W. Waddell, and S. Long. 2015. Red wolf population viability analysis report for USFWS feasibility assessment. Lincoln Park Zoo, Chicago, IL.
- Johnson, B. J., J. L. Simonis, B. Bahner, A. Baltz, P. Schultz, and R. Sweeney. 2015. Guam Kingfisher AZA Animal Program Population Viability Analysis Report. Association of Zoos and Aquariums. Lincoln Park Zoo, Chicago, IL.
- Simonis, J. L., L. J. Faust, R. B. Harrison, S. T. Long, D. R. Rabon Jr., and W. T. Waddell. 2015. Red Wolf AZA Animal Program Population Viability Analysis Report. Association of Zoos and Aquariums. Lincoln Park Zoo, Chicago, IL.

In Preparation and In Review

- Simonis, J. L., S. T. Long, K. Perišin, and L. J. Faust. *In Prep.* Uncovering challenges to sustainability of AZA Animal Programs with PMCTrack. To be submitted to *Zoo Biology*.
- Simonis, J. L., L. J. Faust, R. B. Harrison, S. T. Long, D. R. Rabon Jr., and W. T. Waddell. *In Prep.* Capacity of an *ex situ* population to support reintroductions *in situ*. To be submitted to *Animal Conservation*.
- Simonis, J. L. *In Prep.* Dispersal and connectivity of an apex-predator metapopulation. To be submitted to *Ecography*.

† Undergraduate co-author

PRESENTATIONS

Departmental Seminars

- Department of Forestry and Natural Resources, Purdue University: 2015[†]
- Graduate Student Union and Gender Studies Department, University of Notre Dame: 2014[†]
- Department of Conservation and Science, Lincoln Park Zoo: 2014[†]
- Department of Biology, University of South Dakota: 2013[†]

Society Meetings

- International Urban Wildlife Conference: 2015
- The Wildlife Society: 2014
- Association of Zoos and Aquariums: 2013, 2014, 2015
- Ecological Society of America: 2008, 2011, 2012, 2013[†], 2015
- North America Congress for Conservation Biology: 2012
- Ninth International Symposium on Cladocera: 2011
- American Society for Limnology and Oceanography: 2010

Mycological Society of America: 2006

Local Symposia

Heiserfest, Shoals Marine Laboratory: 2012‡

Frontiers in the Life Sciences, Cornell University: 2012

Biogeochemistry and Environmental Biocomplexity Program, Cornell University: 2009, 2010, 2011

Ecology and Evolutionary Biology Department, Cornell University: 2008, 2009, 2010, 2011

Celebration of a Centennial of Limnology, Cornell University: 2009

‡ Invited presentation

RESEARCH SUPPORT

2011-2012	National Science Foundation, Doctoral Dissertation Improvement Grant [\$15,000]
2007-2012	National Science Foundation, Graduate Research Fellowship
2008-2012	Cornell University Graduate School, Conference Grants [total \$1,600]
2012	Society for Conservation Biology, Graduate Student Travel Grant [\$500]
2008-2011	Cornell University Program in Biogeochemistry and Environmental Biocomplexity, Research Grants [total \$15,000]
2008-2011	Shoals Marine Laboratory, Summer Research Awards [total \$10,000]
2011	Cornell Department of Ecology and Evolutionary Biology, Orenstein Award [\$750]
2011	Ninth International Symposium on Cladocera, Graduate Student Travel Grant [\$700]
2010	A.W. Mellon Foundation, Research Grant [\$1,500]
2010	Cornell University Graduate School, Research Travel Grant [\$2,000]
2009	Sigma Xi, Research Grant [\$800]
2008-2009	Cornell Department of Ecology and Evolutionary Biology, Research Awards [total \$1,250]

TEACHING, MENTORING, AND SUPERVISING

Course Instructor

Ecological Design and Analysis using R [Graduate Course], Cornell University: Spring 2010 & Fall 2011

Introduction to Programming in R [Intensive Workshop], Cornell University: Fall 2010

Evolutionary Biology, Writing-in-the-Majors Track, Cornell University: Fall 2009

Teaching Assistant

Evolutionary Biology and Diversity, Cornell University: Fall 2012

Limnology [Lecture and Laboratory Courses], Cornell University: Spring 2012

Advisor

Population Biology Internship, Lincoln Park Zoo: 2014

Kara Pellowe-Wagstaff, Cornell University undergraduate, B.S. with High Honors: 2012

Research Internships in Field Sciences, Shoals Marine Laboratory: 2010-2011

Supervisor

Alexander Center Staff [Three Full-Time Employees, One Intern], Lincoln Park Zoo: 2014-2015

PROFESSIONAL ACTIVITIES

Manuscript Reviews

Auk, *American Naturalist*, *Ecology Letters*, *Ecosphere*, *Hydrobiologia*, *Journal of Ecology*

Society Memberships

American Society for Limnology and Oceanography, Association of Zoos and Aquariums, Ecological Society of

America, Sigma Xi, Society for Conservation Biology, The Wildlife Society

Committee Memberships

Micronesian Kingfisher Species Recovery Committee: 2014-Present

Small Population Management Advisory Group, Association of Zoos and Aquariums: 2013-Present

Research Committee, Lincoln Park Zoo: 2013-2015

Student Library Advisory Council, Cornell University: 2011-2012

Biogeochemistry and Environmental Biocomplexity Seminar Committee, Cornell University [Chair]: 2009-2012

Department of Ecology and Evolutionary Biology Graduate Student Association, Cornell University: 2007-2012

Biogeochemistry and Biocomplexity Graduate Student Association, Cornell University: 2007-2012

Additional Service

Purdue University Transgender Day of Remembrance Keynote Speaker: 2015

Trans, Gender-Non-Conforming, and Intersex Athlete Network [Founder]: 2013-Present

Diversity and Inclusion Employee Taskforce, Lincoln Park Zoo [Founding Member]: 2014-2015

Windy City Rollers (Non-Profit), Inc. [Skater, Training Committee Co-Chair]: 2013-2015

Peer Educators of Gender and Sexuality, Cornell University: 2012

EnviroMentors Mentoring Program, Cornell University: 2011-2012

Expanding Your Horizons Conference, Cornell University [Volunteer]: 2010-2012

Floating Classroom, Ithaca, NY [Volunteer]: 2010-2012

Quantitative Biology with R Lunch Bunch [Coordinator]: 2008-2012

Campus-to-Coast Program, Cornell University [Volunteer]: 2007

Students for Environmental Concerns, University of Illinois: Urbana-Champaign [Environmental Education Chair]: 2004-2006

AWARDS AND RECOGNITION

2015 United States Trans100 Honoree [Excellence in Service to the Transgender Community]

2014 Lamont C. Cole Award [Outstanding Graduate Student Publication], Department of Ecology and Evolutionary Biology, Cornell University

2011 Robert H. Whittaker Award [Outstanding Graduate Student Presentation], Department of Ecology and Evolutionary Biology, Cornell University

2011 1st Place, Harry W. Greene Grilled Cheese Competition, Department of Ecology and Evolutionary Biology, Cornell University

2006 Bronze Tablet and *Summa Cum Laude* [University Honors] University of Illinois: Urbana-Champaign

2006 Harriett Long Award [Outstanding Undergraduate Research], School of Integrative Biology, University of Illinois: Urbana-Champaign

2006 Thesis Honors with High Distinction, School of Integrative Biology, University of Illinois: Urbana-Champaign