

SARAH P. HAMMARLUND

2121 N 143rd St.
Seattle, WA 98133
sarahham@uw.edu

EDUCATION

- University of Washington**, Seattle, WA 2007 - 2012
College Honors Program, *summa cum laude*
Bachelor of Science, Biology, June 2012
Bachelor of Arts, Swedish, Departmental Honors, June 2012
GPA: 3.96
- Uppsala University**, Uppsala, Sweden 2009 - 2010
1-year exchange program
Evolutionary Biology Centre, Uppsala University

RESEARCH EXPERIENCE

- Foster Lab - University of Oxford**, Oxford, UK 2014 - present
Social Evolution in Microbes
Advisors: Dr. Kevin Foster & Dr. Tom Bell (Imperial College)
 - Empirical study testing the stress gradient hypothesis using natural microbial communities from beech tree holes, manuscript in preparation
- Kerr Lab - University of Washington**, Seattle, WA 2010 - present
Microbial Evolution & Ecology
Advisor: Dr. Benjamin Kerr
 - Theoretical project studying the evolution of cooperation via the 'Hankshaw Effect' using agent-based simulations, work under review at *Evolution*
 - Empirical study investigating the evolution of public good production in *Pseudomonas aeruginosa*
- University of Washington**, Seattle, WA 2011
Paleontology Field Course in Hell Creek, Montana
Instructor: Dr. Gregory P. Wilson
 - Field project studying the K-Pg extinction event using vertebrate microfossils from the Hell Creek and Tullock formations in northeastern Montana
- University of Washington**, Seattle, WA 2011
Field Ecology Course in Peru
Instructors: Dr. Tim Billo & Dr. Ursula Valdez
 - Field experience at Wayqecha Cloud Forest Biological Station and Los Amigos Biological Station
 - Research project investigating butterfly diversity in successional habitats of the southeastern Peruvian Amazon
- Uppsala University**, Uppsala, Sweden 2010
Ecology & Population Genetics Field Course
Instructor: Dr. Niklas Kolm
 - Field work at Erken Limnology Station and Klubban Marine Biological Station
 - Research project studying how predator signals moderate school formation in three-spined sticklebacks

PUBLICATIONS

- Hammarlund, S. P., Connelly, B. D., Dickinson, K. J., & Kerr, B. (2015). The Evolution of Cooperation by the Hankshaw Effect. *bioRxiv*, 016667. 2015
- Currently under review at *Evolution*
- Connelly, B. D., Dickinson, K. J., Hammarlund, S. P., & Kerr, B. (2015). Negative Niche Construction Favors the Evolution of Cooperation. *bioRxiv*, 018994. 2015
- Currently under review at *Evolutionary Ecology*

PRESENTATIONS

- ESEB 2015**, Lausanne, Switzerland Aug 2015
- Poster title: *The Evolution of Cooperation by the Hankshaw Effect*
- Microbial Population Biology GRC**, New Hampshire July 2015
- Poster title: *The Evolution of Cooperation by the Hankshaw Effect*
- University of Oxford**, Department of Zoology, Theoretical & Experimental Evolutionary Biology seminar series Sept 2014
- Talk title: *The Evolution of Cooperation through Genetic Niche-Hiking*
- EVO-WIBO**, Pacific Northwest evolutionary biology conference April 2014
- Poster title: *The Evolution of Cooperation through Genetic Niche-Hiking*
 - Best Poster Award
- BEACON Congress**, Michigan State University Aug 2013
- Poster title: *The Evolution of Cooperation through Genetic Niche-Hiking*
- BEACON NSF Annual Site Visit**, Michigan State University Dec 2012
- Poster title: *The Evolution of Cooperation through Genetic Niche-Hiking*
- Undergraduate Research Symposium**, University of Washington June 2012
- Talk title: *The Evolution of Cooperation in Stressful Environments*

AWARDS & SCHOLARSHIPS

- BEACON Travel Award 2015
- Best Poster Award at EVO-WIBO conference 2014
- University of Washington President's Medal Nomination 2012
- Mary Gates Research Scholarship, University of Washington 2012
- University of Washington Quarterly & Annual Dean's Lists 2007 - 2012
- Seattle Swedish Cultural Center Scholarship 2009

TEACHING, OUTREACH & ACTIVITIES

- Ecology and Evolution tutor**, Dept. of Zoology, Oxford 2015
- Tutorial leader for 2nd year Evolution, including introductory evolutionary theory, adaptation and social evolution
- Philosophy of Biology Reading Group**, Oxford 2014 - 2015
- Participated in a discussion group about inheritance and cooperation, led by Dr. Ellen Clarke
 - Attended a two-day Philosophy of Biology meeting focused on inheritance and cooperation, held at Balliol College, Oxford June 2015
- Science Discovery Day activity leader**, Silwood Park, Imperial College Sept 2015
- Demonstrated mist-netting and bird ringing for visitors and families
- Science Fair Judge**, Jane Addams K-8 School, Seattle, WA 2013 & 2014
- Scored science fair projects for 6th-8th grade classes
- Science Activity Leader**, Sacajawea Elementary School, Seattle, WA 2012
- Helped 5th grade students perform an experiment about bacteria and hand washing

RELEVANT EMPLOYMENT

- Kerr Lab**, University of Washington, Seattle, WA 2012 - 2014
- Research technician position leading a research project about the evolution of cooperation
- Vulcan Inc.**, Seattle, WA 2011 - 2013
- Biology Domain Expert for Project Halo, an effort to create a comprehensive computer knowledge base and problem-solving system for the natural sciences
- Proyecto ASIS**, Javillos, Costa Rica Summer 2008
- Volunteer at a wildlife rescue center