

STEPHANIE M. AGUILLON

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Education:

- PhD** Cornell University, Dept. of Ecology & Evolutionary Biology **09/2014–pres.**
Advisors: Dr. Richard G. Harrison (deceased) and Dr. Irby J. Lovette
Committee: Irby J. Lovette (chair), Jeremy Searle, Maren Vitousek
- MS** University of Arizona, Dept. of Ecology & Evolutionary Biology **09/2013–05/2014**
Accelerated Master's Program
Advisor: Dr. Renée A. Duckworth
Thesis title: "The influence of personality on dispersal and population dynamics in a passerine bird"
- BS** University of Arizona, Dept. of Ecology & Evolutionary Biology **09/2009–05/2013**
Summa Cum Laude and with Honors

Peer-Reviewed Publications:

- Aguillon, S.M.**, J.W. Fitzpatrick, R. Bowman, S.J. Schoech, A.G. Clark, G. Coop, and N. Chen. *In review (PLOS Biology)*. Deconstructing the patterns of isolation-by-distance: the genomic consequences of limited and sex-biased dispersal. bioRxiv 093989, doi: <https://doi.org/10.1101/093989>.
- Predick, K.I., S.R. Archer, **S.M. Aguillon**, D.A. Keller, H.L. Throop, and P.W. Barnes. *In prep.* Effects of abiotic drivers (UV radiation-temperature-moisture) on surface litter decomposition in a shrub-invaded grassland.
- Duckworth, R.A. and **S.M. Aguillon**. 2015. Eco-evolutionary dynamics: investigating multiple pathways linking changes in behavior, population density and natural selection. *Journal of Ornithology*. 256 (Suppl 1):S115-S124.
- Aguillon, S.M.** and R.A. Duckworth. 2015. Kin aggression and resource availability influence phenotype-dependent dispersal in a passerine bird. *Behavioral Ecology and Sociobiology* 69:625-633.

Fellowships, Grants, and Awards:

Fellowships:

- SUNY Graduate Diversity Fellowship (\$32,874/year + tuition, healthcare; two years) 2014
NSF Graduate Research Fellowship (\$34,000/year + tuition, healthcare; three years) 2013

Grants:

- Cornell University EEB Dept., Richard G. Harrison Fund (\$1200) 2016
Sigma Xi – Cornell University Chapter, Research Grant (\$600) 2016

Cornell Lab of Ornithology, Sally Merrill Sutcliffe Endowment for Cornell Students, UG field support (\$1500)	2016
Cornell University EEB Dept., Betty Miller Francis '47 Fund for Field Research, UG field support (\$2700)	2016
Garden Club of America, Frances M. Peacock Scholarship for Native Bird Habitat (\$4500)	2016
Cornell Lab of Ornithology, Athena Fund Grant (\$3000)	2015
Cornell University EEB Dept., Paul P. Feeny Graduate Student Research Fund (\$1200)	2015
Wilson Ornithological Society, Research Award (\$1500)	2015
Cornell University CALS, Andrew W. Mellon Student Research Grant (\$1000)	2015

Awards:

Cornell University Graduate School, Conference Travel Grant – NAOC VI, Washington D.C. (\$275)	2016
American Ornithologists' Union, Student Travel Award – NAOC VI, Washington D.C. (\$75)	2016
NSF-Society of Systematic Biologists, Workshop Travel Award – Workshop in Model- based Molecular Systematics, Evolution Conference, Guarujá Brazil (\$1750)	2015
Society for the Study of Evolution, Student Travel Stipend – Evolution Conference, Guarujá, Brazil (\$500 + conference registration)	2015
Cornell University Graduate School, Conference Travel Grant – Evolution Conference, Guarujá, Brazil (\$675)	2015
Cooper Ornithological Society, Frances F. Roberts Student Presentation Award – AOU/ COS/SCO Joint Annual Meeting, Estes Park, CO (\$300)	2014
Cooper Ornithological Society, Student Travel Award – AOU/COS/SCO Joint Annual Meeting, Estes Park, CO (\$370)	2014

Presentations:

- Aguillon, S.M.**, J.W. Fitzpatrick, R. Bowman, S.J. Schoech, A.G. Clark, G. Coop, and N. Chen. 2016. Using pedigrees and genomics to understand the consequences of limited dispersal. Cornell Ecology & Evolutionary Biology 41st Annual Symposium. Ithaca, NY.
- Aguillon, S.M.**, I.J. Lovette, and R.G. Harrison. 2016. Genomics in the Great Plains: Using genomics to characterize hybridization in the Northern Flicker. Cornell Lab of Ornithology, Ornithology Seminar. Ithaca, NY.
- Aguillon, S.M.**, I.J. Lovette, and R.G. Harrison. 2016. Using genomics to characterize differentiation and hybridization in the Northern Flicker. *North American Ornithological Congress (NAOC VI)*. Washington, D.C.
- Aguillon, S.M.**, J.W. Fitzpatrick, R. Bowman, S.J. Schoech, A.G. Clark, G. Coop (presenting author), and N. Chen. 2016. Using pedigrees and genomics to understand the consequences of limited and sex-biased dispersal. *Evolution Conference*. Austin, TX.
- Aguillon, S.M.**, N. Chen, J.W. Fitzpatrick, R. Bowman, S.J. Schoech, and A.G. Clark. 2015. Genomic consequences of sex-biased dispersal in a long-lived, cooperative bird. *Evolution Conference*. Guarujá, Brazil.
- Aguillon, S.M.** and R.A. Duckworth. 2014. Resource-mediated behavioral dynamics among kin drive dispersal in first-year western bluebirds (*Sialia mexicana*). *Joint Annual*

Meeting of the American Ornithologists' Union, Cooper Ornithological Society, and the Society of Canadian Ornithologists. Estes Park, CO.

R.A. Duckworth and **S.M. Aguilon**. 2014. Evolutionary feedback loops: population cycles as both a cause and consequence of individual variation in behavior. *26th International Ornithological Congress*. Tokyo, Japan.

Aguillon, S.M. and R.A. Duckworth. 2013. Cooperation and conflict among kin: disentangling the factors influencing dispersal in a passerine bird. *Joint Annual Meeting of the American Ornithologists' Union and Cooper Ornithological Society*. Chicago, IL.

Aguillon, S.M., K. Predick, E.M. Levi, J.A. Nelson, R.L. McCulley, H.L. Throop, P.W. Barnes, and S.R. Archer. 2012. Does UV radiation alter short-term leaf litter decomposition in contrasting dryland canopy regimes? *Ecological Society of America Annual Meeting*. Portland, OR.

Teaching Experience:

BioEE 1780: Evolution and Diversity

Fall 2016

Dept. of Ecology and Evolutionary Biology, Cornell University

I served as a Teaching Assistant for this class, leading weekly section activities on topics ranging from reading phylogenetic trees and understanding the diversity of life to hybrid zones and population genetics.

WRIT 1430: History, Literature, and Science of the Galapagos Islands

Spring 2016

Dept. of Ecology and Evolutionary Biology, Cornell University

I served as a writing coach, providing in-depth comments and revisions to student essays during the semester. I helped lead the spring break trip to the Galapagos Islands, which included preparing writing prompts, leading discussions, and facilitating hands-on learning.

ECOL 484: Ornithology

Spring 2014

Dept. of Ecology and Evolutionary Biology, University of Arizona

I revised and updated the course materials for the laboratory component of Renée Duckworth's Ornithology course. This included updating handouts previously used for the course, both for clarity and scientific content, as well as creating new assignments to better facilitate student understanding of course material. Additionally, I helped lead birding field trips, assisted in leading lab sections, and guest lectured on territoriality and cooperative behavior in birds.

Service and Outreach:

Peer Reviews for Academic Journals: The Auk: Ornithological Advances (1), Behavioral Ecology (1), Behavioral Ecology and Sociobiology (1), Evolution (1), The Wilson Journal of Ornithology (1)

Dept. Ecology & Evolutionary Biology Annual Symposium, Cornell University 12/05/2016

Helped organize the 41st annual December Symposium for the Dept. of Ecology and Evolutionary Biology with talks given by faculty and graduate students from the department. We had a total of 37 talks, 10 undergraduate posters, and a workshop on peer review.

EvoGroup, Cornell University

01/2015–pres.

EvoGroup is a graduate student-led organization that aims to bring together evolutionary biologists at all levels in the Cornell community for monthly seminars, an annual symposium in May, and other specialized workshops and events throughout the semester.

EvoGroup President

08/2016–pres.

Led the organization of monthly seminars (including scheduling speakers and advertising) and specialized workshops (EvoLearn) that occur once per semester. Additionally, I helped organize EvoDay 2016 (Evolution and Conservation) and led the organization of EvoDay 2015 (Evolution and Behavior).

EvoLearn Workshops

David Hillis (University of Texas – Austin), Applications of Phylogenetics 10/11/2016

Jeff Good (University of Montana), Target Capture Methods 11/24/2015

EvoDay 2015 (Evolution and Behavior)

05/08/2015

Led the organization of EvoGroup’s annual symposium held at the Cornell Lab of Ornithology with talks given by faculty, grad students, and post-docs from universities and colleges in central and upstate New York. We had a total of 16 talks and 120 attendants at the event with David Sloan Wilson as our keynote speaker.

EEB Diversity Group, Cornell University

02/2016–pres.

A group aimed at increasing diversity in the Cornell EEB Department’s graduate students, as well as the field as a whole. We organized and funded Cornell’s first-ever Diversity and Inclusion Recruitment Weekend (April 21-23, 2017), a weekend that brings in students from underrepresented minorities in STEM and first-generation college students *before* they have applied to graduate school. The students meet faculty and learn about the department, while learning about the graduate school application process and how to create a successful application. The goal is to increase the diversity of applicants to our department (where the current bottleneck exists) during the subsequent application cycle. I led the committee on advertising the recruitment event, which included creating a poster advertisement, collating an extensive advertising email list, and sending emails.

Expanding Your Horizons (EYH), Cornell University

2015, 2016

Brings 7th-9th grade girls to Cornell to participate in a day of science workshops.

A Bird in the Hand Workshop

04/30/2016

Co-led a workshop on evolutionary biology and ornithology through the EYH program. Our workshop included an evolution simulation exercise, phylogenetic activities, as well as a demonstration of hands-on field ornithology methods.

McNair Scholars Graduate Mentorship Program

09/2015–pres.

Served as a graduate student mentor for undergraduate students in the McNair Scholars Program, a program that prepares undergraduates for entrance into PhD programs.