

STEPHANIE M. AGUILLON

last updated 7 March 2019

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Education:

PhD	Cornell University, Department of Ecology and Evolutionary Biology Advisors: Irby J. Lovette and Richard G. Harrison (deceased)	2014–pres.
MS	University of Arizona, Department of Ecology and Evolutionary Biology Advisor: Renée A. Duckworth	2014
BS	University of Arizona, Department of Ecology and Evolutionary Biology Summa Cum Laude and with Honors Honors Thesis Advisor: Renée A. Duckworth	2013

Publications:

6. Predick, KI, SR Archer, **SM Aguillon**, DA Keller, HL Throop, PW Barnes. 2018. UV-B radiation and shrub canopy effects on surface litter decomposition in a shrub-invaded dry grassland. *Journal of Arid Environments* 157(2018): 13-21.
5. Ballen, CJ, **SM Aguillon**, R Brunelli, AG Drake, D Monti, D Wassenberg, S Weiss, KR Zamudio, S Cotner. 2018. Do small classes in higher education reduce performance gaps in STEM? *BioScience* 68(8): 593-600.
4. **Aguillon, SM**, L Campagna, RG Harrison, IJ Lovette. 2018. A flicker of hope: Genomic data distinguish Northern Flicker taxa despite low levels of divergence. *The Auk: Ornithological Advances* 135(3): 748-766.
Popular press about this article: [All About Birds](#), [The Auk](#), [Avian Hybrids](#)
3. **Aguillon, SM**, JW Fitzpatrick, R Bowman, SJ Schoech, AG Clark, G Coop, N Chen. 2017. Deconstructing isolation-by-distance: the genomic consequences of limited dispersal. *PLOS Genetics* 13(8): e1006911. (cover article)
Popular press about this article: [The Molecular Ecologist](#), [PLOS Biologue](#), [F1000](#)
2. Duckworth, RA and **SM 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.
1. **Aguillon, SM** and RA Duckworth. 2015. Kin aggression and resource availability influence phenotype-dependent dispersal in a passerine bird. *Behavioral Ecology and Sociobiology* 69(4): 625-633.

—In Review—

1. Ballen, CJ, **SM Aguillon**, A Awwad, AE Bjune, D Challou, AG Drake, M Driessen, A Ellozy, VE Ferry, EE Goldberg, W Harcombe, C Jørgensen, Z Koth, S McGaugh, C Mitry, B Mosher, H Mostafa, RH Petipas, PAG Soneral, S Watters, D Wassenberg, SL Weiss, A Yonas, KR Zamudio, S Cotner. *In review*. Smaller classes promote equitable student participation in STEM.

Other Published Works:

2. **Aguillon, SM.** 2019. Fighting through the gray. *Science* 363(6431): 1114.
1. **Aguillon, SM** and IJ Lovette. 2019. NACC Proposal (2019-A-10): Change the specific/subspecific/morphological group name of the Red-shafted Flicker from *cafer* to *lathamii*. <http://checklist.aou.org/assets/proposals/PDF/2019-A.pdf>

Fellowships, Grants, and Awards:

Fellowships (\$188,281+):

Provost Diversity Fellowship, Cornell University (\$15,233 + tuition and healthcare)	2019
Ivy Fellowship, Cornell Lab of Ornithology (\$5,300)	2017
SUNY Graduate Diversity Fellowship (\$65,748 + tuition and healthcare)	2014
NSF Graduate Research Fellowship (\$102,000 + tuition and healthcare)	2013

Grants (\$42,760):

American Ornithological Society Hesse Award (\$2,000)	2018
Richard G. Harrison Fund, <i>Cornell University</i> (\$1,200)	2018
Cornell Lab of Ornithology Athena Fund (\$8,160)	2018
Richard G. Harrison Fund, <i>Cornell University</i> (\$1,200)	2017
Andrew W. Mellon Student Research Grant, <i>Cornell University</i> (\$1,000)	2017
Cornell Lab of Ornithology Athena Fund (\$12,000)	2017
Richard G. Harrison Fund, <i>Cornell University</i> (\$1,200)	2016
Cornell Sigma Xi Grant in Aid of Research (\$600)	2016
Sally Merrill Sutcliffe Endowment, <i>Cornell Lab of Ornithology</i> (\$1,500)	2016
Betty Miller Francis '47 Fund for Field Research, <i>Cornell University</i> (\$2,700)	2016
Garden Club of America Peacock Scholarship for Native Bird Habitat (\$4,500)	2016
Cornell Lab of Ornithology Athena Fund (\$3,000)	2015
Paul P. Feeny Graduate Student Research Fund, <i>Cornell University</i> (\$1,200)	2015
Wilson Ornithological Society Research Award (\$1,500)	2015
Andrew W. Mellon Student Research Grant, <i>Cornell University</i> (\$1,000)	2015

Awards:

Cornelia Ye Outstanding Teaching Assistant Award, <i>Cornell University</i> (\$500)	2017
Frances F. Roberts Student Presentation Award, <i>Cooper Ornithological Society</i> (\$300)	2014
Galileo Circle Scholar Award, <i>University of Arizona</i> (\$500)	2013
Ecology and Evolutionary Biology Outstanding Senior, <i>University of Arizona</i>	2013

Presentations:

- Aguillon, SM.** 2018. *Genomic sequencing of hybridizing woodpeckers reveals loci associated with feather coloration.* Cornell University EvoGroup. Ithaca, NY.
- Aguillon, SM,** IJ Lovette. 2018. *Genomic data distinguish phenotypically distinct birds despite low levels of divergence.* Evolution. Montpellier, France.

- Aguillon, SM**, L Campagna, RG Harrison, IJ Lovette. 2018. *Genomic data provide a flicker of hope for differentiating taxa in the Northern Flicker complex*. American Ornithological Society. Tucson, AZ.
- Aguillon, SM**, JW Fitzpatrick, R Bowman, SJ Schoech, AG Clark, G Coop, N Chen. 2017. *Using a unique bird to understand how dispersal shapes spatial patterns of genetic diversity*. British Ornithologists' Union 2017 Twitter Conference (#BOU17TC).
- Aguillon, SM**, JW Fitzpatrick, R Bowman, SJ Schoech, AG Clark, G Coop, N Chen. 2017. *Using pedigrees and genomics to understand the consequences of limited dispersal*. American Ornithological Society. East Lansing, MI.
- Aguillon, SM**, RG Harrison, IJ Lovette. 2017. *Genomic data distinguish phenotypically distinct birds despite low levels of divergence*. Evolution. Portland, OR.
- Siegmund, G-F*, **SM Aguillon***, AG Drake, S Cotner, CJ Ballen. 2017. *Gender differences in student participation in an introductory biology classroom*. Teaching as Research National Conference. Ithaca, NY. (*equal contribution)
- Chen, N, EJ Cosgrove, R Bowman, **SM Aguillon**, G Coop, JW Fitzpatrick, AG Clark (presenting author). 2017. *Genomic consequences of population decline in the endangered Florida Scrub-Jay*. Global Biodiversity Genomics Conference. Washington, D.C.
- Aguillon, SM**, IJ Lovette, RG Harrison. 2016. *Using genomics to characterize differentiation and hybridization in the Northern Flicker*. North American Ornithological Congress VI. Washington, D.C.
- Aguillon, SM**, JW Fitzpatrick, R Bowman, SJ Schoech, AG Clark, G Coop (presenting author), N Chen. 2016. *Using pedigrees and genomics to understand the consequences of limited and sex-biased dispersal*. Evolution. Austin, TX.
- Aguillon, SM**, N Chen, JW Fitzpatrick, R Bowman, SJ Schoech, AG Clark. 2015. *Genomic consequences of sex-biased dispersal in a long-lived, cooperative bird*. Evolution. Guarujá, Brazil.
- Aguillon, SM** and RA Duckworth. 2014. *Resource-mediated behavioral dynamics among kin drive dispersal in first-year western bluebirds (Sialia mexicana)*. Joint Meeting of the American Ornithologists' Union, Cooper Ornithological Society, and the Society of Canadian Ornithologists. Estes Park, CO.
- RA Duckworth and **SM Aguillon**. 2014. *Evolutionary feedback loops: population cycles as both a cause and consequence of individual variation in behavior*. International Ornithological Congress. Tokyo, Japan.
- Aguillon, SM** and RA Duckworth. 2013. *Cooperation and conflict among kin: disentangling the factors influencing dispersal in a passerine bird*. Joint Meeting of the American Ornithologists' Union and Cooper Ornithological Society. Chicago, IL.
- Aguillon, SM**, K Predick, EM Levi, JA Nelson, RL McCulley, HL Throop, PW Barnes, SR Archer. 2012. *Does UV radiation alter short-term leaf litter decomposition in contrasting dryland canopy regimes?* Ecological Society of America. Portland, OR.

Teaching Experience:

WRIT 1430: History, Literature, and Science of the Galápagos Islands
Instructor and Trip Leader, Cornell University

Spring 2017

I was the instructor of record for this First-year Writing Seminar focused on human interactions with the Galápagos throughout history. I coordinated all aspects of the course, including developing lecture materials, selecting readings, and developing essay prompts.

Additionally, I helped lead the trip to the Galápagos, which provided hands-on experiential learning for the students.

BioEE 1780: Introduction to Evolutionary Biology and Diversity Fall 2016
Teaching Assistant, Cornell University

I led three weekly discussion sections 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 Galápagos Islands Spring 2016
Writing Coach and Trip Leader, Cornell University

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

ECOL 484: Ornithology Spring 2014
Course Assistant and Guest Lecturer, University of Arizona

I revised course materials for the laboratory component of the course, as well as created new assignments to better facilitate student comprehension. Additionally, I helped lead birding field trips and guest lectured on territoriality and cooperative behavior in birds.

MATH 100: Preparation for University-Level Mathematics Fall 2011–Spring 2013
Instructor and Undergraduate Teaching Assistant, University of Arizona

I taught and tutored mathematics to first-years unable to pass the math placement exam. I created lessons and a comprehensive notes packet, which was sold at the university bookstore as required course material. During the 2012 winter session, I was the primary instructor for the course: I managed daily classes, scheduled exams, assigned and graded homework, and was the immediate supervisor for the other Teaching Assistants.

Service and Engagement:

Reviewer (13 total): *Ardea*, *Animal Behaviour*, *The Auk: Ornithological Advances*, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Evolution*, *Molecular Ecology*, *Systematic Biology*, *The Wilson Journal of Ornithology*

Diversity Preview Weekend (DPW) 2016-pres.
Lead Organizer, Cornell University

DPW is an event that brings in students from underrepresented backgrounds who are interested in pursuing graduate school. Attendees participate in workshops, meet faculty, and learn about the application process. This event was conceived and organized entirely by graduate students (particularly those from EEB). In 2017, I led the advertising committee and helped lead two workshops. In 2018, I coordinated the organization of the entire weekend (inviting 40 students from 16 states, Guam, and Puerto Rico with full funding). I am currently overseeing the transition and transfer of knowledge to new organizers for the third annual event.

EvoGroup 2015-2018
President and Symposium Organizer, Cornell University

EvoGroup is a graduate-led organization that brings together evolutionary biologists in the Cornell community for monthly seminars, an annual symposium in May (EvoDay), and other specialized events throughout the semester. I led the day-to-day organization of monthly seminars and workshops (including scheduling speakers and advertising). I was the primary organizer for EvoDay 2015 (Evolution and Behavior) and supervised the organization of EvoDay 2016 and 2017. EvoDay typically includes 14 talks and 120+ attendees.

Panel on Diverse Graduate Student Experiences 2018

Invited Panelist, Doris Duke Conservation Scholars, Cornell University

FemSTEM Mentoring Program 2017

Graduate Student Mentor, Cornell University

Ecology and Evolutionary Biology Departmental Symposium 2016

Co-Organizer, Cornell University

Expanding Your Horizons (EYH) Conference 2015, 2016, 2017

Workshop Leader, Cornell University

Graduate Students Mentoring Undergraduates (GSMU) Program 2015-2017

Graduate Student Mentor, Cornell University

Professional Societies:

American Genetic Association (joined 2017); American Ornithological Society (2013); American Society of Naturalists (2015); Phi Beta Kappa (2012); Society for the Study of Evolution (2015); Wilson Ornithological Society (2013)