

# STEPFANIE M. AGUILLON

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## Appointments

Stanford Science Fellow, Stanford University 9/2021 – present

## Education

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| <b>PhD</b> | Cornell University, Department of Ecology and Evolutionary Biology<br>Advisors: Irby J. Lovette and Richard G. Harrison (deceased)             | 2021 |
| <b>MS</b>  | University of Arizona, Department of Ecology and Evolutionary Biology<br>Advisor: Renée A. Duckworth   | 2014 |
| <b>BS</b>  | University of Arizona, Department of Ecology and Evolutionary Biology<br><b>summa cum laude and with Honors</b><br>Advisor: Renée A. Duckworth | 2013 |

## Publications

[\(Google Scholar profile\)](#)

11. Powell, DL, B Moran, BY Kim, SM Banerjee, **SM Aguillon**, P Fascinetto-Zago, QK Langdon, M Schumer. 2021. Two new hybrid populations expand the swordtail hybridization model system. *Evolution* 75(10): 2524-2539.
10. **Aguillon, SM**, J Walsh, IJ Lovette. 2021. Extensive hybridization reveals multiple coloration genes underlying a complex plumage phenotype. *Proceedings of the Royal Society B* 288(1943): 20201805. Press: [Living Bird Magazine](#), [ABA Birding Magazine](#), [Avian Hybrids](#)
9. Mikles, CS\*, **SM Aguillon**, YL Chan, P Arcese, PM Benham, IJ Lovette, J Walsh. 2020. Genomic differentiation and local adaptation on a microgeographic scale in a resident songbird. *Molecular Ecology* 29(22): 4295-4307. (\*undergraduate student)
8. **Aguillon, SM\***, G-F Siegmund\*, RH Petipas, AG Drake, S Cotner, CJ Ballen. 2020. Gender differences in student participation in an active-learning classroom. *CBE—Life Sciences Education* 19(2): ar12. (\*equal contribution) Press: [Cornell Chronicle](#), [The Chronicle of Higher Ed](#)
7. Ballen, CJ, **SM Aguillon**, A Awwad, AE Bjune, D Challou, AG Drake, M Driessen, A Ellozy, VE Ferry, EE Goldberg, W Harcombe, S Jensen, 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. 2019. Smaller classes promote equitable student participation in STEM. *BioScience* 69(8): 669-680.

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 Wassenberg, SL 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. Press: [All About Birds](#), [Avian Hybrids](#), [ABA Birding Magazine](#)  
*In the top 10 most cited articles since 2017 in the journal*
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. Press: [The Molecular Ecologist](#), [PLOS Biologue](#)  
[F1000](#) recommended article; journal cover article
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* 156(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 or In Prep*—

1. **SM Aguillon** and VG Rohwer. *In review*. Revisiting a classic hybrid zone: rapid movement of the northern flicker hybrid zone in contemporary times. bioRxiv doi: [10.1101/2021.08.16.456504](https://doi.org/10.1101/2021.08.16.456504)
2. Mikles, CS\*, P Arcese, IJ Lovette, **SM Aguillon**, YL Chan, PM Benham, K Carbeck, J Walsh. *Revisions in review*. Evolutionary divergence and adaptive capacity in morphologically distinct song sparrow subspecies. (\*graduate student)
3. AL Potticary, **SM Aguillon**, RA Duckworth. *In prep*. Maternal effects on behavior drive population dynamics in a novel context.

## Other Published Works

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2. **Aguillon, SM**. 2019. Fighting through the gray. *Science* 363(6431): 1114.
1. **Aguillon, SM** and IJ Lovette. 2019. AOS North American Classification Committee (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

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### Fellowships (\$257,548+):

Anna Marie Brown Fund, Cornell Lab of Ornithology (\$6,049)	2020
Fellowship Top-Up, Cornell University (\$7,218 + tuition and insurance)	2019
AAUW American Dissertation Fellowship (\$20,000)	2019
Provost Diversity Fellowship, Cornell University (\$15,233 + tuition and insurance)	2018
Ivy Fellowship, Cornell Lab of Ornithology (\$5,300)	2017
SUNY Graduate Diversity Fellowship (\$65,748 + tuition and insurance)	2014
NSF Graduate Research Fellowship (\$138,000)	2013

### Grants (\$71,760):

Stanford Science Fellows research funding (\$8,000/year for 3 years)	2021
Cornell Lab of Ornithology Athena Fund (\$5,000)	2019
American Ornithological Society Hesse Award (\$2,000)	2018
Richard G. Harrison Fund, Cornell University (\$1,200)	2018
Cornell Lab of Ornithology Athena Fund (\$8,160)	2018
Richard G. Harrison Fund, Cornell University (\$1,200)	2017
Andrew W. Mellon Student Research Grant, Cornell University (\$1,000)	2017
Cornell Lab of Ornithology Athena Fund (\$12,000)	2017
Richard G. Harrison Fund, Cornell University (\$1,200)	2016
Cornell Sigma Xi Grant in Aid of Research (\$600)	2016
Sally Merrill Sutcliffe Endowment, Cornell Lab of Ornithology (\$1,500)	2016
Betty Miller Francis '47 Fund for Field Research, Cornell University (\$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, Cornell University (\$1,200)	2015
Wilson Ornithological Society Research Award (\$1,500)	2015
Andrew W. Mellon Student Research Grant, Cornell University (\$1,000)	2015

### Awards:

NAOC VII Student Presentation Award Honorable Mention	2020
Cornelia Ye Outstanding Teaching Assistant Award, Cornell University (\$500)	2017
Frances F. Roberts Student Presentation Award, Cooper Ornithological Society (\$300)	2014
Galileo Circle Scholar Award, University of Arizona (\$500)	2013
Ecology and Evolutionary Biology Outstanding Senior, University of Arizona	2013

### Presentations (first-authored only)

(\* invited presentation)

Natural History Museum of Los Angeles County, virtual*	2021
San Francisco Bird Observatory, virtual*	2021
American Ornithological Society, virtual*	2021
Evolution, virtual	2021
American Society of Naturalists Stand-Alone, Asilomar, CA, virtual	2021
Cornell University Ornithology Seminar, Ithaca, NY, virtual*	2020
North American Ornithological Congress (NAOC) VII, virtual	2020

Great Lakes Annual Meeting of Evolutionary Genomics, virtual	2020
American Ornithological Society, Anchorage, AK*	2019
Connecting Research and Teaching, Ithaca, NY*	2019
Cornell University EvoGroup Seminar, Ithaca, NY*	2018
Evolution, Montpellier, France (poster)	2018
American Ornithological Society, Tucson, AZ	2018
British Ornithologists' Union Twitter Conference #BOU17TC	2017
American Ornithological Society, East Lansing, MI (talk and poster)	2017
Evolution, Portland, OR (poster)	2017
Teaching as Research, Ithaca, NY (poster)	2017
Cornell University Ornithology Seminar, Ithaca, NY*	2016
North American Ornithological Congress (NAOC) VI, Washington D.C.	2016
Evolution, Austin, TX (talk presented by co-author)	2016
Evolution, Guarujá, Brazil (poster)	2015
American Ornithologists' Union, Estes Park, CO	2014
American Ornithologists' Union, Chicago, IL (poster)	2013

## Teaching Experience

(\* writing-intensive course)

<b>Evolution for Non-Majors (BIOEE 1180)</b>	Summer 2021
Teaching Assistant, Cornell University, online	
<b>Speciation: Genetics, Ecology, and Behavior (BIOEE 4530)*</b>	Spring 2021
Teaching Assistant, Cornell University, online	
<b>History, Literature, and Science of the Galápagos Islands (WRIT 1430)*</b>	Spring 2017
Instructor of Record and Trip Leader, Cornell University	
<b>Introduction to Evolutionary Biology and Diversity (BIOEE 1780)</b>	Fall 2016
Teaching Assistant, Cornell University	
<b>History, Literature, and Science of the Galápagos Islands (WRIT 1430)*</b>	Spring 2016
Writing Coach and Trip Leader, Cornell University	
<b>Ornithology (ECOL 484)</b>	Spring 2014
Course Assistant, University of Arizona	
<b>Preparation for University-Level Mathematics (MATH 100)</b>	Fall 2011–Spring 2013
Instructor and Undergraduate Teaching Coordinator, University of Arizona, online	
<b>Guest Lectures:</b>	
Ornithology (BIOEE 4750), Cornell University, Hybridization and Speciation	Spring 2020
Ornithology (ECOL 484), University of Arizona, Evolution of Sociality	Spring 2014

## Service and Engagement

**Journal Article Reviewer** (22 total): Ardea, Animal Behaviour, The Auk: Ornithological Advances, Avian Conservation and Ecology, Behavioral Ecology, Behavioral Ecology and

Sociobiology, Biological Journal of the Linnean Society, Ecography, Evolution, Journal of Heredity, Molecular Ecology, Northwestern Naturalist, PLOS Genetics, Scientific Reports, Systematic Biology, Wilson Journal of Ornithology

**Grant Reviewer** (1 total): Graduate Women in Science (GWIS) National Fellowship

**Workshop on Scientific Figure-Making** 2018, 2021  
Organizer, Dept. Ecology and Evolutionary Biology, Cornell University

**Symposium Organizer, American Ornithological Society Meeting** 2019  
Co-organizer of the symposium “Lessons from avian hybrid zones and the maintenance of species boundaries” with Jennifer Walsh and Gemma Clucas, symposium included 12 talks

**Workshop on Websites for Graduate Students** 2019  
Co-organizer, Dept. Ecology and Evolutionary Biology, Cornell University

**Leveraging Social Media in Science Panel** 2019  
Invited Panelist, Dept. Ecology and Evolutionary Biology, Cornell University

**President and Symposium Organizer, Cornell University's EvoGroup** 2015-2018  
EvoGroup is a graduate-led organization that brings together evolutionary biologists in the Cornell community. I led the day-to-day organization of monthly seminars and workshops, was the primary organizer of EvoDay 2015, and supervised the organization of EvoDay 2016 and 2017. EvoDay typically includes 14 talks and 120+ attendees.

**Ecology and Evolutionary Biology Departmental Symposium** 2016  
Co-organizer, Cornell University

## **Diversity, Equity, and Inclusion**

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**Lead Organizer, Cornell University's Diversity Preview Weekend (DPW)** 2016-2020  
DPW is an event that brings in students from underrepresented backgrounds who are interested in pursuing graduate school to participate in workshops, meet faculty, and learn about the application process. 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).

**bioBUDS (Building Up Developing Scientists) Winternship** 2022  
Research Mentor, Stanford University

**Diverse Graduate Student Experiences Panel** 2018  
Invited Panelist, Doris Duke Conservation Scholars, Cornell University

**FemSTEM Mentoring Program** 2017  
Graduate Student Mentor, Cornell University

**Expanding Your Horizons Conference** 2015-2017, 2019  
Workshop Leader and General Volunteer, Cornell University

**Graduate Students Mentoring Undergraduates Program**  
Graduate Student Mentor, Cornell University

2015-2017