

STEPHANIE M. AGUILLON

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Appointments

Stanford Science Fellow, Stanford University 09/2021 – present

Education

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

Publications

(**U** undergrad mentee; **G** grad mentee)

14. **Aguillon, SM** and AJ Shultz. *In revision*. Community-sourced sightings of atypical birds can be used to understand the evolution of plumage color and pattern. EcoEvoRxiv doi: [10.32942/osf.io/fhkey](https://doi.org/10.32942/osf.io/fhkey)
13. Mikles, CS^G, P Arcese, IJ Lovette, **SM Aguillon**, YL Chan, PM Benham, K Carbeck, J Walsh. *In review*. Evolutionary divergence and adaptive capacity in morphologically distinct song sparrow subspecies.
12. **Aguillon, SM** and VG Rohwer. 2022. Revisiting a classic hybrid zone: movement of the northern flicker hybrid zone in contemporary times. *Evolution* 76(5): 1082-1090. [Evolution Digest](#) by Jente Ottenburghs
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^U, **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.
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 Education](#)
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 (April 2021)
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 Prep Manuscripts—

3. **Aguillon, SM**, S Haase Cox^U, QK Langdon, JJ Baczenas, SM Banerjee, TR Gunn, DL Powell*, M Schumer*. *In prep*. Mate preferences shape population genetic structure between two hybridizing swordtail fish. (*equal contribution)

2. **Aguillon, SM**, M Schumer, IJ Lovette. *In prep.* Interacting genomic regions shape the coloration of multiple phenotypes in the northern flicker.
1. AL Potticary, **SM Aguillon**, RA Duckworth. *In prep.* Self-organizing properties of ecological systems generated by maternally induced differences in behavior.

Invited Commentaries and Other Published Works

3. **Aguillon, SM**, TO Dodge^G, G Preising^G, M Schumer. 2022. Introgression. *Current Biology* 32(16): R865-R868.
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

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:

American Ornithological Society James G. Cooper Early Professional Award (\$1500)	2022
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)

American Society of Naturalists Stand-Alone, Asilomar, CA	2023
American Ornithological Society, Puerto Rico (plenary)*	2022
Stanford Science Fellows Symposium, Palo Alto, CA (talk and poster)	2022
Jasper Ridge Biological Preserve, virtual*	2022
Natural History Museum of Los Angeles County, virtual*	2021
San Francisco Bay 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 Symposium, 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)

Evolution for Non-Majors (BIOEE 1180)	Summer 2021
Teaching Assistant, Cornell University, online	
Speciation: Genetics, Ecology, and Behavior (BIOEE 4530)*	Spring 2021
Teaching Assistant, Cornell University, online	
History, Literature, and Science of the Galápagos Islands (WRIT 1430)*	Spring 2017

Instructor of Record and Trip Leader, Cornell University

Introduction to Evolutionary Biology and Diversity (BIOEE 1780) Fall 2016
Teaching Assistant, Cornell University

History, Literature, and Science of the Galápagos Islands (WRIT 1430)* Spring 2016
Writing Coach and Trip Leader, Cornell University

Ornithology (ECOL 484) Spring 2014
Course Assistant, University of Arizona

Preparation for University-Level Mathematics (MATH 100) Fall 2011–Spring 2013
Instructor and Undergraduate Teaching Coordinator, University of Arizona, online

Guest Lectures:

Building Up Developing Scientists (BIO114), Stanford University, “Speciation” Winter 2022
Ornithology (BIOEE 4750), Cornell University, “Hybridization and Speciation” Spring 2020
Ornithology (ECOL 484), University of Arizona, “Evolution of Sociality” Spring 2014

Science Communication

Scientific Consultant 2022–present
Elinor Wonders Why, PBS Kids

Service and Engagement

Journal Article Reviewer (29 total): Ardea (1), Animal Behaviour (1), The Auk/Ornithology (4), Avian Conservation and Ecology (1), Behavioral Ecology (1), Behavioral Ecology and Sociobiology (1), Biological Journal of the Linnean Society (1), Ecography (1), Ecology and Evolution (1), Evolution (6), Journal of Heredity (1), Genetics (1), Molecular Ecology (3), Northwestern Naturalist (1), PLOS Genetics (1), Scientific Reports (1), Systematic Biology (1), Wilson Journal of Ornithology (2)

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

Workshop: R coding in the tidyverse 2022
Organizer, Dept. Biology, Stanford University

Workshop: Data Management for Publishing 2022
Presenter and Co-organizer, Jasper Ridge Biological Preserve, Stanford University

Workshop: Scientific Figure-Making 2022
Organizer, American Ornithological Society, virtual

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

Panel: Leveraging Social Media in Science 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

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).

Biology Preview Program 2022
Workshop Leader and One-on-one Mentor, Stanford University

Stanford Latinx Postdoc Association (SLPA) 2022–present
Elected Vice-Chair, Stanford University

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

Panel: Diverse Graduate Student Experiences 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 2015–2017
Graduate Student Mentor, Cornell University