

PhD Candidate Montclair, NJ

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Education

City University of New York

New York, New York

PHD CANDIDATE, BIOLOGY- ECOLOGY, EVOLUTION, AND BEHAVIOR

Carbondale. Illinois

Southern Illinois University

2016 - 2018

2018 - 2024

University of Texas

M.S., ZOOLOGY

Austin, Texas

B.S., BIOLOGY- ECOLOGY, EVOLUTION, AND BEHAVIOR

2011 - 2015

Professional experience

Graduate Research Assistant

City University of New York

MICHAEL J. HICKERSON LAB

2018 - 2024

• Investigating evolutionary responses to environmental change across spatial scales.

Software Developer

University of Maine

ANDREW ROMINGER

2022 2022

• Developed an R Shiny web application to simulate community assembly using the Rules of Life Engine model. It is meant to facilitate education and research.

Assistant Project Manager

University of California- Berkeley

INSIGHTS FROM MACRO-ECOLOGY AND MACRO-EVOLUTION FOR BIODIVERSITY ASSESSMENT

2023 - 2023

- · Co-organized meetings and progress monitoring for 10 research projects following an NSF-funded workshop on bridging biodiversity disciplines
- Coordinated data deposition and access across projects
- Contributed to a white paper and multiple project manuscripts that stemmed from the workshop

Digital FellowCity University of New York

GRADUATE CENTER

2019 - 2021

- Consulted on technical projects across disciplines.
- Delivered workshops to multi-disciplinary audiences on topics like R, Python, GIS, reproducible analysis, text analysis, data visualization, and data wrangling.
- Formed the CUNY R User Group and held monthly meetings.

Graduate Research Assistant

Southern Illinois University

JASON L. BROWN LAB

2016 - 2018

• Completed thesis work on the evolution of Andean poison frogs.

Research Assistant

University of Texas

TEXAS BIODIVERSITY COLLECTIONS

2016 - 2016

- · Herpetology Division
- Supported data collection and collections management for conservation efforts.

Undergraduate Researcher

University of Texas

DANIEL I. BOLNICK LAB

2013 - 2014

• Completed an independent project through the National Science Foundation Research Experience for Undergraduates. Experimental design, field work in British Columbia, lab work, data analysis, and first-author publication.

Undergraduate Researcher

University of Texas

DAVID CANNATELLA LAB

Field Technician

2013 - 2014

• Field work in support of frog acoustic research.

TOUCAN RIDGE ECOLOGY AND EDUCATION SOCIETY

Middlesex, Belize

Designed and executed field protocols for monitoring amphibian populations.

Collections Assistant University of Texas

Texas Biodiversity Collections 2014

- · Ichthyology Division
- · Collected and analyzed fish morphometric data for taxonomic research and digitized research collections.

Preprints

Publications

Global determinants of insect mitochondrial genetic diversity (2023)

NATURE COMMUNICATIONS. 14:5276.

• *French, C.M.*, Bertola, L.D., Carnaval, A.C., Economo, E.P., Kass, J.M., Lohman, D.J., Marske, K.A., Meier, R., Overcast, I., Rominger, A.J., Staniczenko, P., Hickerson, M.J.

Forest cover and geographical distance influence fine-scale genetic structure of leaf-toed geckos in the tropical dry forests of western Mexico (2022)

BIOLOGICAL JOURNAL OF THE LINNEAN SOCIETY. 137(4), PP. 686-699

• *French, C.M.*, Berezin, C.T., Overcast, I., De La Cruz, F.R.M., Basu, S., Bernal, R.L.M., Murphy, R.W., Hickerson, M.J., Blair, C.

Phylogenetic relationships and systematics of the Amazonian poison frog genus Ameerega using ultraconserved genomic elements (2020)

MOLECULAR PHYLOGENETICS AND EVOLUTION. 142, 106638.

• Wilson, G.X., *French, C.M.*, Twomey, E.M., Chávez, G., Prates, I, von May, R., la Riva, I.D., Lötters, S., Reichle, S., Serrano-Rojas, S.J., Whitworth, A., Brown, J.L.

Morphological correlates of invasion in Florida cane toad (Rhinella marina) populations: Shortening of legs and reduction in leg asymmetry as populations become established (2020)

ACTA OECOLOGICA. 109, 103652

• Rubio, A.O., *French, C.M.*, Catenazzi, A.

Speciation with introgression: Phylogeography and systematics of the Ameerega petersi group (Dendrobatidae). (2019)

 ${\sf Molecular\ Phylogenetics\ and\ Evolution.\ 138,31-42.}$

• *French, C.M.*, Deutsch, M.S., Chávez, G., Almora, C.E., Brown, J.L.

The tadpole of Ameerega boehmei in southeastern Bolivia (2019)

ZOOTAXA. 4661, 1.

• *French, C.M.*, Burkette, C., Reichle, S., and Brown, J.L.

Geographical variation in colour of female threespine stickleback (Gasterosteus aculeatus). (2018)

PEERJ. 6:E4807.

• *French, C.M.*, Ingram, T., Bolnick, D.I.

Rana juliani. Vocalization. (2017)

MESOAMERICAN HERPETOLOGY. 4(1). PP. 170.

• *French, C.M.*, Kilborn, V., Jäger, K.L.

Diadophis punctatus regalis (Regal Ringneck Snake). DIET. (2017)

HERPETOLOGICAL REVIEW. 48(2). PP. 448.

• *French, C.M.*

SDMtoolbox 2.0: the next generation python-based GIS toolkit for landscape genetic, biogeographic and species distribution model analyses. (2017)

PEERJ. 5:E4095.

• Brown, J.L., Bennett, J., *French, C.M.*

Presentations and Posters _____

Pairing species distribution models with spatially explicit coalescent simulations to understand demographic responses to past climate change	
EVOLUTION	2023
 French, C.M., Hickerson, M.J., Carnaval, A.C. Oral presentation 	
Estimating spatial demographic patterns in a dynamic environment with ecological niche models and genome-wide data	
ECOLOGICAL AND EVOLUTIONARY GENOMICS GORDON CONFERENCE	2023
 French, C.M., Hickerson, M.J., Carnaval, A.C. Poster presentation 	
The response of an Atlantic Forest leaf frog to anthropogenic climate change	
STUDENT CONFERENCE ON CONSERVATION SCIENCE	2023
 Flores, L.C., *French, C.M.* Poster presentation Liliana Flores is my undergraduate mentee who presented the poster 	
Estimating spatial demographic patterns in a dynamic environment with species distribution models and genome-wide data	
EVOLUTION	2022
• *French, C.M.*, Hickerson, M.J., Carnaval, A.C.	
Oral presentation	
Presidential symposium: Species distributions and coexistence: the intersection of evolution and ecology.	
Determinants of the global distribution of genetic diversity in terrestrial insects	
New York Species Distribution Modeling Discussion Group	2023
 French, C.M. Invited presentation 	
Comparative phylogeography of the Brazilian Atlantic Forest leaf litter lizards (genus Envalus)	
Enyalius)	2020
	2020
Enyalius) WORLD CONGRESS OF HERPETOLOGY • *French, C.M.*, Damasceno, R., Rodrigues, M., Carnaval, A.C., Hickerson, M.J.	2020
Enyalius) World Congress of Herpetology *French, C.M.*, Damasceno, R., Rodrigues, M., Carnaval, A.C., Hickerson, M.J. Oral presentation	2020
Enyalius) World Congress of Herpetology * *French, C.M.*, Damasceno, R., Rodrigues, M., Carnaval, A.C., Hickerson, M.J. Oral presentation Using genetics to understand species responses to climate change New York City College of Technology- Systematics Undergraduate Course * *French, C.M.*	
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Oral presentation

Morphological divergence among multiple Notropis oxyrhynchus populations

AMERICAN FISHERIES SOCIETY 2015

- · *French, C.M.*
- · Poster presentation

Morphological assessment of hybridization between two ranid species, Lithobates juliani and L. vaillanti

SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES 2015

- *French, C.M.*
- · Oral presentation

Peer Review

Journal of Biogeography, Biotropica, Environmental Biology of Fishes, Molecular Ecology, Global Ecology and Biogeography

Teaching

Ecology and EvolutionNew York, NY

CCNY BIOLOGY DEPARTMENT 202

- TA, BIO 228
- Led and prepared labs.

Reproducible Research New York, NY

CITY COLLEGE OF NEW YORK 2022

- Co-organizer and panelist. 1.5 hour panel on techniques for reproducible research.
- Hosted for members of the Ecology, Evolution, and Behavior PhD program.

R for Reproducible Scientific Analysis

COLUMBIA UNIVERSITY 2021

- Invited workshop.
- Half-day online workshop as part of the Pre-Statistics Course Bootcamp.
- · Facilitated by Software Carpentries.

Introduction to Text Analysis in R

New York, NY

CUNY Graduate Center 2021

- 1.5 hour online workshop for CUNY Graduate Center faculty and students.
- · Hosted on rstudio.cloud
- · Given as part of the GC Digital Fellows.

Digital Research Institute

New York, NY

CUNY Graduate Center 2020 - 202.

- Five day series of workshops introducing CUNY faculty and students to digital tools for research.
- Two sessions- one in January 2020 and one in February 2021.
- · Led the R track.

CUNY GRADUATE CENTER

Digital Humanities Research Institute

New York, NY

CUNY Graduate Center/Online 2021

• Led a workshop on Git and Github for a national cohort of students and faculty.

Reproducible Data Analysis in R

• 2.5 hour workshop on using RMarkdown and github for reproducible data analysis.

- 2.5 flour workshop off using kinarkdown and github for reproducible data analysis
- Hosted within the workr R package as an interactive tutorial.
- · Given as part of the GC Digital Fellows

Data Visualization in R

New York, NY

CUNY GRADUATE CENTER 2020

- 2.5 hour workshop on using ggplot2 for data visualization.
- Hosted within the workr R package as an interactive tutorial.
- Given as part of the GC Digital Fellows

New York, NY

Exploring population structure in R with adegenet and sNMF Global/Online CITY UNIVERSITY OF NEW YORK 2020 • 1.5 hour online workshop given to an international group of evolutionary biology faculty and graduate students as part of the four day Bioinformatics Bootcamp for Ecology and Evolution. **Introduction to R and RStudio** New York, NY **CUNY GRADUATE CENTER** Two hour online workshop for CUNY Graduate Center faculty and students. · Given as part of the GC Digital Fellows. Introduction to population structure inference in R Carbondale II SIUC 7001 OGY DEPARTMENT Invited workshop. • Two hour workshop for Zoology graduate and undergraduate students. **Introductory R and RStudio** New York, NY **CUNY GRADUATE CENTER** 2019 · Invited workshop. • 1.5 hour workshop for graduate students in the Quantitative Zoogeography graduate course. Bioinformatic processing of ultraconserved elements for phylogenetic analysis Carbondale, IL SIUC ZOOLOGY DEPARTMENT 2019 • Two hour workshop to introduce graduate students to a bioinformatic pipeline. **Data Wrangling in R** New York, NY **CUNY GRADUATE CENTER** 2019 • 2.5 hour workshop on using the tidyverse for data manipulation. Hosted within the workr R package as an interactive tutorial. · Given as part of the GC Digital Fellows **BioSkills** Carbondale, IL SIUC BIOLOGY DEPARTMENT 2017 - 2018 TA. BIO 212 Co-developed material for new writing and discussion-based course section. Concurrently ran ecology and developmental biology sections. **Introduction to Evolution and Ecology Lab** Carbondale, IL SIUC BIOLOGY DEPARTMENT 2017 • TA. BIO 212 Led and prepared labs. Vertebrate Anatomy Lab Carbondale, IL SIUC ZOOLOGY DEPARTMENT 2017 • TA, ZOOL 418 · Led and prepared labs. · Advised undergraduate lab assistant. Reptile and amphibian survey and capture techniques Carbondale, IL SIUC ZOOLOGY DEPARTMENT 2017 • Invited lecture, Curation of Collections (PLB 401). • One hour lecture on best practices for herpetological surveys. Appropriate techniques for identifying and handling reptiles and amphibians in the field. Carbondale, IL SIUC ZOOLOGY DEPARTMENT 2017 • Invited lecture, SIUC Wildlife Techniques (ZOOL 469). • One hour lecture and field demonstration on best practices for herpetological surveys.

Introductory Biology for Non-Majors Lab

Carbondale, IL

SIUC ZOOLOGY DEPARTMENT
• TA, ZOOL 115

Led and prepared labs.

Instructor Austin, TX

CAMP EINSTEIN AFTERSCHOOL STEM PROGRAM

• Summer afterschool program for early elementary school students.

Biostatistics Austin, TX

UT BIOLOGY DEPARTMENT 2014 - 2015

- · Undergraduate TA
- Assisted graduate TA with leading and grading R programming labs, and facilitating course discussion.

Awards and Honors

Doctoral Student Research Grant CITY UNIVERSITY OF NEW YORK 2023 • \$1450 **Graduate Center Digital Fellowship** CITY UNIVERSITY OF NEW YORK 2019 - 2021 \$56250 • \$28,125/year **Helen and Frederick Gaige Fund** AMERICAN SOCIETY OF ICHTHYOLOGY AND HERPETOLOGY 2020 • \$900 Provost's Pre-Dissertation Research Fellowship for the Sciences CITY UNIVERSITY OF NEW YORK 2020 • \$5000 **Student Scholarship** WORLD CONGRESS OF HERPETOLOGY 2020 • \$940 **Graduate Research Excellence Grant RC Lewontin Early Award** SOCIETY FOR THE STUDY OF EVOLUTION 2019 • \$2300 **Charles & Florence Foote Teaching Award in Zoology** SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE 2018 • \$750 **Biodiversity Under Environmental Change Seed Grant** CITY COLLEGE OF NEW YORK 2018 • \$2500 **Digital Initiatives Training Grant** CITY UNIVERSITY OF NEW YORK 2018 • \$500 **Zoology Graduate Student Association Travel Award** SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE \$100 **Cooperative Wildlife Research Lab Featured Graduate Student** SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE 2017 **Undergraduate Research Fellowship** University of Texas at Austin 2015 • \$1000 **University Honors** University of Texas at Austin

2014

General Education Scholarship

2011 - 2012 University of North Texas

\$6000

University of North Texas 2012

Outreach

CUNY BIOLOGY DEPARTMENT

Predicting global insect diversity City College of New York SCIENCE DAY 2019 · Invited oral presentation Peru: where plan C comes first SIU Carbondale HERPETOLOGY CLUB 2017 · Oral presentation There and back again: divergence and convergence in poison frogs SIU Carbondale DARWIN WEEK 2017 • Invited oral presentation Sightseers slither into southern Illinois for Snake Road Interview Frog diversity and evolution KEALING MIDDLE SCHOOL MAGNET PROGRAM ZOOLOGY CLUB 2016 · Invited lecture Frogs: weird wonders of the natural world LAMAR FINE ARTS ACADEMY MIDDLE SCHOOL 2016 Invited lecture **Professional Development Deep Learning in Pytorch Crash Course** New York, NY NYC DATA SCIENCE ACADEMY Workshop The Carpentries Collaborative Lesson Development Training program Remote SOFTWARE CARPENTRIES • Certified as a Software Carpentries Lesson Developer Insights from Macro-Ecology and Macro-Evolution for Biodiversity Assessment SCHOODIC INSTITUTE, MAINE Workshop **Applied Machine Learning** Austin, TX R STUDIO CONFERENCE 2019 Workshop **Machine Learning for Scientists** CITY UNIVERSITY OF NEW YORK 2019 Course The Fundamentals of UX Research CITY UNIVERSITY OF NEW YORK 2019 Workshop **Genome Assembly and Annotation** AMERICAN MUSEUM OF NATURAL HISTORY 2019 Workshop **SLiM 5-day workshop** New York, NY

• Co-organized five full-day workshop on SLiM population genetic simulation program

Instrituto De Blocièncias Workshop Biostatistics City University of New York Course Introduction to GIS SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE Course Quantitative Zoogeography SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE Course Intermediate Computational Statistics SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE Course Biostatistics University of Texas at Austin Course Intro to NGS Bioinformatics University of Texas at Austin Workshop Mentorship Liliana C. Flores City Coulage or New York Conducted independent research project on modeling the distribution of a Brazilian leaf frog species Poster presentation of work at the Student Conference on Conservation Science Undergraduate Diversity at Evolution Evolution Meeting Mentored two undergraduates attending their first conference Krista Jäger Dalhaousie University	2018 2018 2017 2017 2016
Biostatistics CITY UNIVERSITY OF NEW YORK COURSE Introduction to GIS SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE COURSE Quantitative Zoogeography SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE COURSE Intermediate Computational Statistics SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE COURSE Biostatistics UNIVERSITY OF TEXAS AT AUSTIN COURSE Intro to NGS Bioinformatics UNIVERSITY OF TEXAS AT AUSTIN Workshop Mentorship Liliana C. Flores CITY COLLEGE OF NEW YORK Conducted independent research project on modeling the distribution of a Brazilian leaf frog species Poster presentation of work at the Student Conference on Conservation Science Undergraduate Diversity at Evolution EVOLUTION MEETING Mentored two undergraduates attending their first conference Krista Jäger	2017 2017 2016
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Workshop Mentorship Liliana C. Flores City College of New York Conducted independent research project on modeling the distribution of a Brazilian leaf frog species Poster presentation of work at the Student Conference on Conservation Science Undergraduate Diversity at Evolution Evolution Meeting Mentored two undergraduates attending their first conference Krista Jäger	
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Poster presentation of work at the Student Conference on Conservation Science Undergraduate Diversity at Evolution EVOLUTION MEETING Mentored two undergraduates attending their first conference Krista Jäger	2022 - 2023
EVOLUTION MEETING Mentored two undergraduates attending their first conference Krista Jäger	
 Mentored two undergraduates attending their first conference Krista Jäger 	
Krista Jäger	2019
DALHOLISIE UNIVERSITY	
	2016 - 2017
 Assisted honors thesis investigating ranid frog population genetics Co-authored natural history note on *Rana juliani* vocalization 	
Michael Deutsche	
Southern Illinois University at Carbondale	2017
 Undergraduate assistant, learning lab techniques and experimental design in anuran morphometrics Senior project on poison frog call variation Co-authored resulting publication 	
Writing	
Sonification for Data Communication	New York, NY
BLOG POST	
 Post introducing the concept of sonification, its uses, and its benefits. 	2021
RStudio Cloud for Education	2021

BLOG POST

Funding sources for undergraduate research in ecology and evolution

BLOG POST

• Post highlighting funding resources for undergraduate research

PDIG Training Grant Spotlight: Connor French

BLOG POST

• Overview of a project I used the Provost's Digital Innovation Grant to prepare for.

Interactively explore geographic data in R using leaflet

BLOG POST

• Walk through of creating an interactive map in R.

New York, NY

New York, NY

New York, NY

2019

2019

Technical Skills _____

Frameworks	Software
R, Python, SQL, QGIS, ArcGIS, Unix shell, Microsoft Office, High-Performance Computing	Git, tidyverse, tidymodels, Quarto, Shiny, msprime, sklearn, SLiM, conda, snakemake, common bioinformatics tools

Affiliations

Society for the Study of Evolution (2017 - 2024)

American Genetics Association (2022 - 2024)