

Montclair, NJ

□972 768 2025 | ☑french.connor.m@gmail.com | ☆connor-french.com | ロconnor-french | the connormfrench | ❤ frog_phylo

Education

City University of New York

New York, New York

PHD CANDIDATE, BIOLOGY- ECOLOGY, EVOLUTION, AND BEHAVIOR

2018 - 2023 Carbondale, Illinois

Southern Illinois University

2016 - 2018

University of Texas

M.S., ZOOLOGY

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

Austin, Texas 2011 - 2015

Professional experience

Graduate Research Assistant

City University of New York

MICHAEL J. HICKERSON LAB 2018 - 2023

• Investigating evolutionary responses to environmental change across spatial scales.

Software Developer University of Maine

 Andrew Rominger
 2022 - 2023

• Developing 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

2019 - 2021

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

Digital FellowCity University of New York

Graduate Center

- 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

2013 - 2014

• Field work in support of frog acoustic research.

Field Technician Middlesex, Belize

TOUCAN RIDGE ECOLOGY AND EDUCATION SOCIETY

2014

• 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

Global determinants of insect genetic diversity (2022)

BIORXIV. 10.1101/2022.02.09.479762

- *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.
- Preprint. Accepted at Nature Communications, conditional on revisions.

Publications

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)

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 Estimating spatial demographic patterns in a dynamic environment with species distribution models and genome-wide data **EVOLUTION** • *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 *French, C.M.* Invited presentation Comparative phylogeography of the Brazilian Atlantic Forest leaf litter lizards (genus **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.* Invited presentation A dynamic history in the Tropical Andes: phylogeography and systematics of the Ameerega petersi group (Dendrobatidae) **EVOLUTION** 2019 • *French, C.M.*, and Brown, J.L. • Oral presentation Predicting global insect genetic diversity 2019 • *French, C.M.*, Bertola, L., Hickerson, M.J. · Poster presentation Climate-driven diversification in a clade of Peruvian poison frogs 2017 **EVOLUTION** • *French, C.M.*, Brown, J.L. Oral presentation Climate fluctuation as a driver of diversification in a clade of Peruvian poison frogs JOINT MEETING OF ICHTHYOLOGISTS AND HERPETOLOGISTS *French, C.M.*, Brown, J.L. 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 Evolution New York, NY **CCNY BIOLOGY DEPARTMENT** 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** New York, NY COLUMBIA UNIVERSITY 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** • 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. **Digital Humanities Research Institute** New York, NY **CUNY GRADUATE CENTER/ONLINE** Led a workshop on Git and Github for a national cohort of students and faculty. Reproducible Data Analysis in R New York, NY **CUNY GRADUATE CENTER** • 2.5 hour workshop on using RMarkdown 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** 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 Exploring population structure in R with adegenet and sNMF New York, NY **CUNY GRADUATE CENTER** • 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 2020 • 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, IL SIUC ZOOLOGY DEPARTMENT Invited workshop.

Two hour workshop for Zoology graduate and undergraduate students.

Introductory R and RStudio	New York, N
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, N
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 212Led 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	2016
TA, ZOOL 115Led and prepared labs.	
Instructor	Austin, TX
CAMP EINSTEIN AFTERSCHOOL STEM PROGRAM	2016
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

• \$1447

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 • \$900	2020
Provost's Pre-Dissertation Research Fellowship for the Sciences	
City University of New York • \$5000	2020
Student Scholarship World Congress of Herpetology • \$940	2020
Graduate Research Excellence Grant RC Lewontin Early Award	
Society for the Study of Evolution • \$2300	2019
Charles & Florence Foote Teaching Award in Zoology	
Southern Illinois University at Carbondale • \$750	2018
Biodiversity Under Environmental Change Seed Grant CITY COLLEGE OF NEW YORK • \$2500	2018
Digital Initiatives Training Grant	
City University of New York • \$500	2018
Zoology Graduate Student Association Travel Award	
SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE • \$100	2017
Cooperative Wildlife Research Lab Featured Graduate Student	
SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE	2017
Undergraduate Research Fellowship	
University of Texas at Austin • \$1000	2015
University Honors	
University of Texas at Austin	2014
General Education Scholarship	
University of North Texas • \$6000	2011 - 2012
Dean's List	
University of North Texas	2012
Outreach	
Predicting global insect diversity	City College of New York

 Peru: where plan C comes first
 SIU Carbondale

 HERPETOLOGY CLUB
 2017

 • Oral presentation
 3017

oral preserration

• Invited oral presentation

SCIENCE DAY

2019

There and back again: divergence and convergence in poison frogs DARWIN WEEK • Invited oral presentation	SIU Carbondale 2017
Sightseers slither into southern Illinois for Snake Road DAILY EGYPTIAN Interview	2017
Frog diversity and evolution Kealing Middle School Magnet Program Zoology Club Invited lecture	2016
Frogs: weird wonders of the natural world LAMAR FINE ARTS ACADEMY MIDDLE SCHOOL Invited lecture	2016
Professional Development	
Deep Learning in Pytorch Crash Course NYC Data Science Academy • Workshop	New York, NY 2023
Insights from Macro-Ecology and Macro-Evolution for Biodiversity Assessment Schoolic Institute, Maine Workshop	2022
Applied Machine Learning R Studio Conference • Workshop	Austin, TX 2019
Machine Learning for Scientists CITY UNIVERSITY OF NEW YORK Course	2019
The Fundamentals of UX Research CITY UNIVERSITY OF NEW YORK • Workshop	2019
Genome Assembly and Annotation American Museum of Natural History • Workshop	2019
SLIM 5-day workshop CUNY BIOLOGY DEPARTMENT Co-organized five full-day workshop on SLiM population genetic simulation program	New York, NY 2019
Analysis of Rad-Sequence Data (RadCamp) INSTITUTO DE BIOCIÊNCIAS • Workshop	Universidade de São Paulo 2018
Biostatistics CITY University of New York Course	2018
Introduction to GIS SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE Course	2017
Quantitative Zoogeography Southern Illinois University at Carbondale Course	2017

Intermediate Computational Statistics	
Southern Illinois University at Carbondale	2016
• Course	
Biostatistics	
University of Texas at Austin	2014
• Course	
Intro to NGS Bioinformatics	
University of Texas at Austin	2013
• Workshop	

Mentorship

Undergraduate Diversity at Evolution

EVOLUTION MEETING 2013

• Mentored two undergraduates attending their first conference

Krista Jäger

Dalhousie 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.

RStudio Cloud for Education New York, NY

BLOG POST

• Post outlining the advantages of using the RStudio Cloud system for teaching.

Funding sources for undergraduate research in ecology and evolution New York, NY

BLOG POST 202

Post highlighting funding resources for undergraduate research

PDIG Training Grant Spotlight: Connor French

New York, NY

BLOG POST 2019

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

Interactively explore geographic data in R using leaflet

New York, NY

BLOG POST 2019

· Walk through of creating an interactive map in R.

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

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Society for the Study of Evolution (2017 - 2023)

American Genetics Association (2022 - 2023)