

CONNOR M. FRENCH

EDUCATION

current
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2018

- **PhD Candidate, Biology- Ecology, Evolution, and Behavior**
New York, New York  City University of New York
 - Population genetic patterns and processes from local to global scales
- **M.S., Zoology**
Carbondale, Illinois  Southern Illinois University
 - Systematics, phylogeography, and landscape genetics of the *Ameerega petersi* group (family Dendrobatidae)
 - Cooperative Wildlife Research Lab
- **B.S., Biology- Ecology, Evolution, and Behavior**
Austin, Texas  University of Texas
 - Includes coursework from the University of North Texas

View this CV online with links at
connor-french.com/cv

CONTACT

2018
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2016

2015
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2011

RESEARCH EXPERIENCE

current
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2018

- **Graduate Research Assistant**
Michael J. Hickerson Lab  City University of New York
 - Investigating evolutionary responses to environmental change across spatial scales.
- **Software Developer**
Andrew Rominger  University of Maine
 - Developing an R Shiny web application⁷ to simulate community assembly using the Rules of Life Engine model². It is meant to facilitate education and research.
- **Graduate Research Assistant**
Jason L. Brown Lab  Southern Illinois University
 - Completed thesis work on the evolution of Andean poison frogs.

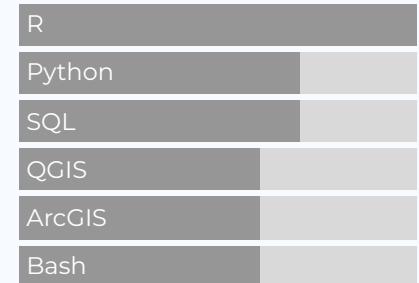
current
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2022

2018
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2016

2016
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2016

- **Research Assistant**
Texas Biodiversity Collections  University of Texas
 - Herpetology Division
 - Supported data collection and collections management for conservation efforts.

LANGUAGE SKILLS



Made with the R package
[pagedown](#).

The source code is available on
github.com/connor-french/cv.

Last updated on 2022-11-28.

2014
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2013

● **Undergraduate Researcher**

Daniel I. Bolnick Lab

📍 University of Texas

- 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.

2014
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2013

● **Undergraduate Researcher**

David Cannatella Lab

📍 University of Texas

- Field work in support of frog acoustic research.

2014
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2014

● **Field Technician**

Middlesex, Belize

📍 Toucan Ridge Ecology and Education Society

- Designed and executed field protocols for monitoring amphibian populations.

2014
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2014

● **Collections Assistant**

Texas Biodiversity Collections

📍 University of Texas

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



TEACHING EXPERIENCE

2022
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2022

● **Ecology and Evolution**

CCNY Biology Department

📍 New York, NY

- TA, BIO 228
- Led and prepared labs.

2022
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2022

● **Reproducible Research**

City College of New York

📍 New York, NY

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

2021
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2021

● **R for Reproducible Scientific Analysis³**

Columbia University

📍 New York, NY

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

2021
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2021

- **Introduction to Text Analysis in R⁴**
CUNY Graduate Center  New York, NY
 - 1.5 hour online workshop for CUNY Graduate Center faculty and students.
 - Hosted on rstudio.cloud⁵.
 - Given as part of the GC Digital Fellows.

2021
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2020

- **Digital Research Institute⁶**
CUNY Graduate Center  New York, NY
 - 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.

2020
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2020

- **Reproducible Data Analysis in R⁷**
CUNY Graduate Center  New York, NY
 - 2.5 hour workshop on using RMarkdown and github for reproducible data analysis.
 - Hosted within the workr⁸ R package as an interactive tutorial.
 - Given as part of the GC Digital Fellows

2020
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2020

- **Data Visualization in R⁹**
CUNY Graduate Center  New York, NY
 - 2.5 hour workshop on using ggplot2 for data visualization.
 - Hosted within the workr¹⁰ R package as an interactive tutorial.
 - Given as part of the GC Digital Fellows

2020
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2020

- **Exploring population structure in R with adegenet and sNMF¹¹**
CUNY Graduate Center  New York, NY
 - 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.

2020
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2020

- **Introduction to R and RStudio¹²**
CUNY Graduate Center  New York, NY
 - Two hour online workshop for CUNY Graduate Center faculty and students.
 - Given as part of the GC Digital Fellows.

2019
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2019

- **Introduction to population structure inference in R¹³**
SIUC Zoology Department  Carbondale, IL
 - Invited workshop.
 - Two hour workshop for Zoology graduate and undergraduate students.

2019 2019	<ul style="list-style-type: none">Introductory R and RStudio CUNY Graduate Center<ul style="list-style-type: none">• Invited workshop.• 1.5 hour workshop for graduate students in the Quantitative Zoogeography graduate course.	 New York, NY
2019 2019	<ul style="list-style-type: none">Bioinformatic processing of ultraconserved elements for phylogenetic analysis SIUC Zoology Department<ul style="list-style-type: none">• Two hour workshop to introduce graduate students to a bioinformatic pipeline.	 Carbondale, IL
2019 2019	<ul style="list-style-type: none">SLiM 5-day workshop¹⁴ CUNY Biology Department<ul style="list-style-type: none">• Co-organized five full-day workshop on SLiM population genetic simulation program	 New York, NY
2019 2019	<ul style="list-style-type: none">Data Wrangling in R¹⁵ CUNY Graduate Center<ul style="list-style-type: none">• 2.5 hour workshop on using the tidyverse for data manipulation.• Hosted within the <code>workr</code>¹⁶ R package as an interactive tutorial.• Given as part of the GC Digital Fellows	 New York, NY
2018 2017	<ul style="list-style-type: none">BioSkills SIUC Biology Department<ul style="list-style-type: none">• TA, BIO 212• Co-developed material for new writing and discussion-based course section.• Concurrently ran ecology and developmental biology sections.	 Carbondale, IL
2017 2017	<ul style="list-style-type: none">Introduction to Evolution and Ecology Lab SIUC Biology Department<ul style="list-style-type: none">• TA, BIO 212• Led and prepared labs.	 Carbondale, IL
2017 2017	<ul style="list-style-type: none">Vertebrate Anatomy Lab SIUC Zoology Department<ul style="list-style-type: none">• TA, ZOOL 418• Led and prepared labs.• Advised undergraduate lab assistant.	 Carbondale, IL
2017 2017	<ul style="list-style-type: none">Reptile and amphibian survey and capture techniques SIUC Zoology Department<ul style="list-style-type: none">• Invited lecture, Curation of Collections (PLB 401).• One hour lecture on best practices for herpetological surveys.	 Carbondale, IL

- 2017 | 2017
- **Appropriate techniques for identifying and handling reptiles and amphibians in the field.**
SIUC Zoology Department  Carbondale, IL
 - Invited lecture, SIUC Wildlife Techniques (ZOOL 469).
 - One hour lecture and field demonstration on best practices for herpetological surveys.
- 2016 | 2016
- **Introductory Biology for Non-Majors Lab**
SIUC Zoology Department  Carbondale, IL
 - TA, ZOOL 115
 - Led and prepared labs.
- 2016 | 2016
- **Instructor**
Camp Einstein Afterschool STEM Program  Austin, TX
 - Summer afterschool program for early elementary school students.
- 2015 | 2014
- **Biostatistics**
UT Biology Department  Austin, TX
 - Undergraduate TA
 - Assisted graduate TA with leading and grading R programming labs, and facilitating course discussion.

↳ SELECTED WRITING

- 2021
- **Sonification for Data Communication¹⁷**  New York, NY
 - Post introducing the concept of sonification, its uses, and its benefits.
- 2020
- **RStudio Cloud for Education¹⁸**  New York, NY
 - Post outlining the advantages of using the RStudio Cloud system for teaching.
- 2020
- **Funding sources for undergraduate research in ecology and evolution¹⁹**  New York, NY
 - Post highlighting funding resources for undergraduate research
- 2019
- **PDIG Training Grant Spotlight: Connor French²⁰**  New York, NY
 - Overview of a project I used the Provost's Digital Innovation Grant to prepare for.
- 2019
- **Interactively explore geographic data in R using leaflet²¹**  New York, NY
 - Walk through of creating an interactive map in R.

PREPRINTS

2022

- **Global determinants of the distribution of insect genetic diversity**

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.

PUBLICATIONS

2022

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

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.

2020

- **Phylogenetic relationships and systematics of the Amazonian poison frog genus *Ameerega* using ultraconserved genomic elements**

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.

2020

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

Acta Oecologica. 109, 103652

- Rubio, A.O., French, C.M., Catenazzi, A.

2019

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

Molecular Phylogenetics and Evolution. 138, 31-42.

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

2019

- **The tadpole of *Ameerega boehmei* in southeastern Bolivia**

Zootaxa. 4661, 1.

- French, C.M., Burkette, C., Reichle, S., Brown, J.L.

2018

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

PeerJ. 6:e4807.

- French, C.M., Ingram, T., and Bolnick, D.I.

- 2017 ● ***Rana juliani*. Vocalization.**
Mesoamerican Herpetology. 4(1). pp. 170.
· French, C.M., Kilborn, V., and Jäger, K.L.
- 2017 ● ***Diadophis punctatus regalis* (Regal Ringneck Snake). DIET.**
Herpetological Review. 48(2). pp. 448.
· French, C.M.
- 2017 ● **SDMtoolbox 2.0: the next generation python-based: GIS toolkit for landscape genetic, biogeographic and species distribution model analyses.**
PeerJ. 5:e4095.
· Brown, J.L., Bennett, J., and French, C.M.

🔊 TALKS AND POSTERS

- 2022 ● **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.
- 2021 ● **Determinants of the global distribution of genetic diversity in terrestrial insects**
New York Species Distribution Modeling Discussion Group
· French, C.M.
· Invited presentation
- 2020 ● **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
- 2020 ● **Using genetics to understand species responses to climate change**
New York City College of Technology- Systematics Undergraduate Course
· French, C.M.
· Invited presentation

- 2019
- A dynamic history in the Tropical Andes: phylogeography and systematics of the *Ameerega petersi* group (Dendrobatidae)
Evolution
 - French, C.M., and Brown, J.L.
 - Oral presentation
- 2019
- Predicting global insect genetic diversity
Evolution
 - French, C.M., Bertola, L., Hickerson, M.J.
 - Poster presentation
- 2017
- Climate-driven diversification in a clade of Peruvian poison frogs
Evolution
 - French, C.M., Brown, J.L.
 - Oral presentation
- 2017
- 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
- 2015
- Morphological divergence among multiple *Notropis oxyrhynchus* populations
American Fisheries Society
 - French, C.M.
 - Poster presentation
- 2015
- Morphological assessment of hybridization between two ranid species, *Lithobates julianae* and *L. vaillanti*
Society for the Study of Amphibians and Reptiles
 - French, C.M.
 - Oral presentation



PEER REVIEW

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

AWARDS AND HONORS

- 2021 | 2019
- **Graduate Center Digital Fellowship**
City University of New York
 - \$56,250
 - \$28,125/year
- 2020
- **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
 - \$5,000
- 2020
- **Student Scholarship**
World Congress of Herpetology
 - \$940
- 2019
- **Graduate Research Excellence Grant RC Lewontin Early Award**
Society for the Study of Evolution
 - \$2,300
- 2018
- **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
 - \$2,500
- 2018
- **Digital Initiatives Training Grant**
City University of New York
 - \$500
- 2017
- **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
- 2015
- **Undergraduate Research Fellowship**
University of Texas at Austin
 - \$1,000

- 2014 • **University Honors**
University of Texas at Austin
- 2012 | 2011 • **General Education Scholarship**
University of North Texas
 - \$6,000
- 2012 • **Dean's List**
University of North Texas

MENTORSHIP

- 2019 • **Undergraduate Diversity at Evolution**
Evolution Meeting
 - Mentored two undergraduates attending their first conference
- 2017 | 2016 • **Krista Jäger**
Dalhousie University
 - Assisted honors thesis investigating ranid frog population genetics
 - Co-authored natural history note on *Rana julianae* vocalization
- 2017 • **Michael Deutsche**
Southern Illinois University at Carbondale
 - Undergraduate assistant, learning lab techniques and experimental design in anuran morphometrics
 - Senior project on poison frog call variation
 - Co-authored resulting publication

OUTREACH

- 2019 • **Predicting global insect diversity**
Science Day  City College of New York
 - Invited oral presentation
- 2017 • **Peru: where plan C comes first**
Herpetology Club  Southern Illinois University at Carbondale
 - Oral presentation
- 2017 • **There and back again: divergence and convergence in poison frogs**
Darwin Week  Southern Illinois University at Carbondale
 - Invited oral presentation
- 2017 • **Sightseers slither into southern Illinois for Snake Road**
Daily Egyptian
 - Interview

- 2016 • **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

💻 COMPUTATIONAL WORKSHOPS AND COURSES

- 2019 • **Applied Machine Learning**
R Studio Conference  Austin, TX
• Workshop
- 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
- 2018 • **Analysis of Rad-Sequence Data (RadCamp)**
Instituto de Biociências  Universidade de São Paulo
• Workshop
- 2018 • **Biostatistics**
City University of New York
• Course
- 2017 • **Introduction to GIS**
Southern Illinois University at Carbondale
• Course
- 2017 • **Quantitative Zoogeography**
Southern Illinois University at Carbondale
• Course

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- A vertical timeline on the left side of the page, marked with a light blue vertical line and small horizontal tick marks. The timeline spans from 2013 at the bottom to 2016 at the top. To the left of the timeline, there are three blue circular bullet points, each corresponding to an activity listed to the right of the timeline.
- 2016 • **Intermediate Computational Statistics**
Southern Illinois University at Carbondale
· Course
 - 2014 • **Biostatistics**
University of Texas at Austin
· Course
 - 2013 • **Intro to NGS Bioinformatics**
University of Texas at Austin
· Workshop



AFFILIATIONS

- current • **Society for the Study of Evolution**
- 2017



LINKS

- 1: <https://github.com/role-model/roleShiny>
- 2: <https://www.ecoevomics.org/research/>
- 3: <https://tiroger.github.io/2020-01-06-Stats-Bootcamp/>
- 4: https://pubs.com/confrench33/text_analysis_R
- 5: [rstudio.cloud](#)
- 6: <https://github.com/GC-DRI>
- 7: <https://github.com/GCDigitalFellows/workr>
- 8: <https://github.com/GCDigitalFellows/workr>
- 9: <https://github.com/GCDigitalFellows/workr>
- 10: <https://github.com/GCDigitalFellows/workr>
- 11: <https://connor-french.github.io/intro-pop-structure-r/>
- 12: <https://github.com/GCDigitalFellows/intro-r/blob/master/frontmatter.md>
- 13: <https://connor-french.github.io/intro-pop-structure-r/>
- 14: <http://benhaller.com/workshops/workshops.html>
- 15: <https://github.com/GCDigitalFellows/workr>
- 16: <https://github.com/GCDigitalFellows/workr>
- 17: <https://connor-french.com/post/sonification-for-data-communication/>
- 18: <https://connor-french.com/post/rstudio-cloud-for-education/>
- 19: <https://connor-french.com/post/funding-for-undergrads/>
- 20: <https://connor-french.com/post/pdig-training-grant-spotlight-connor-french/>
- 21: <https://connor-french.com/post/leaflet-tutorial/>