

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

-  french.connor.m@gmail.com
-  [frog_phylo](#)
-  [github.com/connor-french](#)
-  [connor-french.com](#)
-  [linkedin.com/in/connormfrench](#)

RESEARCH EXPERIENCE

current
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2018

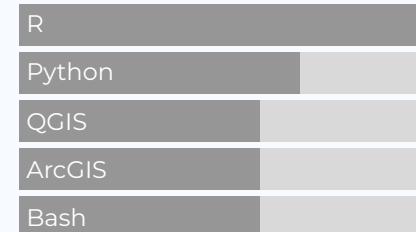
2018
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2016

2016
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2016

2014
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2013

- **Graduate Research Assistant**
Michael J. Hickerson Lab  City University of New York
 - Investigating evolutionary responses to environmental change across spatial scales.
- **Graduate Research Assistant**
Jason L. Brown Lab  Southern Illinois University
 - Completed thesis work on the evolution of Andean poison frogs.
- **Research Assistant**
Texas Biodiversity Collections  University of Texas
 - Herpetology Division
 - Supported data collection and collections management for conservation efforts.
- **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.

LANGUAGE SKILLS



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

The source code is available on
[github.com/connor-french/cv](#).

Last updated on 2022-03-03.

<p>2014 2013</p>	<ul style="list-style-type: none"> ● Undergraduate Researcher David Cannatella Lab <ul style="list-style-type: none"> • Field work in support of frog acoustic research. 	 University of Texas
<p>2014 2014</p>	<ul style="list-style-type: none"> ● Field Technician Middlesex, Belize <ul style="list-style-type: none"> • Designed and executed field protocols for monitoring amphibian populations. 	 Toucan Ridge Ecology and Education Society
<p>2014 2014</p>	<ul style="list-style-type: none"> ● Collections Assistant Texas Biodiversity Collections <ul style="list-style-type: none"> • Ichthyology Division • Collected and analyzed fish morphometric data for taxonomic research and digitized research collections. 	 University of Texas

TEACHING EXPERIENCE

<p>2022 2022</p>	<ul style="list-style-type: none"> ● Ecology and Evolution CCNY Biology Department <ul style="list-style-type: none"> • TA, BIO 228 • Led and prepared labs. 	 New York, NY
<p>2021 2021</p>	<ul style="list-style-type: none"> ● R for Reproducible Scientific Analysis¹ Columbia University <ul style="list-style-type: none"> • Invited workshop. • Half-day online workshop as part of the Pre-Statistics Course Bootcamp. • Facilitated by Software Carpentries. 	 New York, NY
<p>2021 2021</p>	<ul style="list-style-type: none"> ● Introduction to Text Analysis in R² CUNY Graduate Center <ul style="list-style-type: none"> • 1.5 hour online workshop for CUNY Graduate Center faculty and students. • Hosted on rstudio.cloud³. • Given as part of the GC Digital Fellows. 	 New York, NY
<p>2021 2020</p>	<ul style="list-style-type: none"> ● Digital Research Institute⁴ CUNY Graduate Center <ul style="list-style-type: none"> • 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. 	 New York, NY

2020
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2020

- **Reproducible Data Analysis in R⁶**
CUNY Graduate Center 📍 New York, NY
 - 2.5 hour workshop on using RMarkdown and github for reproducible data analysis.
 - Hosted within the `workr6` R package as an interactive tutorial.
 - Given as part of the GC Digital Fellows

2020
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2020

- **Data Visualization in R⁷**
CUNY Graduate Center 📍 New York, NY
 - 2.5 hour workshop on using `ggplot2` for data visualization.
 - Hosted within the `workr8` 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 sNMF⁹**
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 RStudio¹⁰**
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 R¹¹**
SIUC Zoology Department 📍 Carbondale, IL
 - Invited workshop.
 - Two hour workshop for Zoology graduate and undergraduate students.

2019
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2019

- **Introductory R and RStudio**
CUNY Graduate Center 📍 New York, NY
 - Invited workshop.
 - 1.5 hour workshop for graduate students in the Quantitative Zoogeography graduate course.

2019
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2019

- **Bioinformatic processing of ultraconserved elements for phylogenetic analysis**
SIUC Zoology Department 📍 Carbondale, IL
 - Two hour workshop to introduce graduate students to a bioinformatic pipeline.

2019
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2019

- **SLiM 5-day workshop¹²**
CUNY Biology Department 📍 New York, NY
 - Co-organized five full-day workshop on SLiM population genetic simulation program

2019 2019	● Data Wrangling in R³ CUNY Graduate Center	📍 New York, NY
	<ul style="list-style-type: none"> • 2.5 hour workshop on using the tidyverse for data manipulation. • Hosted within the <code>workr</code>¹⁴ R package as an interactive tutorial. • Given as part of the GC Digital Fellows 	
2018 2017	● BioSkills SIUC Biology Department	📍 Carbondale, IL
	<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. 	
2017 2017	● Introduction to Evolution and Ecology Lab SIUC Biology Department	📍 Carbondale, IL
	<ul style="list-style-type: none"> • TA, BIO 212 • Led and prepared labs. 	
2017 2017	● Vertebrate Anatomy Lab SIUC Zoology Department	📍 Carbondale, IL
	<ul style="list-style-type: none"> • TA, ZOOL 418 • Led and prepared labs. • Advised undergraduate lab assistant. 	
2017 2017	● Reptile and amphibian survey and capture techniques SIUC Zoology Department	📍 Carbondale, IL
	<ul style="list-style-type: none"> • Invited lecture, Curation of Collections (PLB 401). • One hour lecture on best practices for herpetological surveys. 	
2017 2017	● Appropriate techniques for identifying and handling reptiles and amphibians in the field. SIUC Zoology Department	📍 Carbondale, IL
	<ul style="list-style-type: none"> • 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
	<ul style="list-style-type: none"> • TA, ZOOL 115 • Led and prepared labs. 	
2016 2016	● Instructor Camp Einstein Afterschool STEM Program	📍 Austin, TX
	<ul style="list-style-type: none"> • Summer afterschool program for early elementary school students. 	

2015
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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 Communication¹⁵** 📍 New York, NY
 - Post introducing the concept of sonification, its uses, and its benefits.
- 2020 ● **RStudio Cloud for Education¹⁶** 📍 New York, NY
 - Post outlining the advantages of using the RStudio Cloud system for teaching.
- 2020 ● **Funding sources for undergraduate research in ecology and evolution¹⁷** 📍 New York, NY
 - Post highlighting funding resources for undergraduate research
- 2019 ● **PDIG Training Grant Spotlight: Connor French¹⁸** 📍 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 leaflet¹⁹** 📍 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

- 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 (Dendrobatiidae).
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

- 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 julianii* and *L. vaillanti***
Society for the Study of Amphibians and Reptiles
• French, C.M.
• Oral presentation

🔗 LINKS

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

📝 PEER REVIEW

- **Journal of Biogeography, Biotropica, Environmental Biology of Fishes, Molecular Ecology**

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

- 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 | 2017 • **Society for the Study of Evolution**
- current | 2017 • **American Society of Ichthyologists and Herpetologists**
- current | 2015 • **Society for the Study of Amphibians and Reptiles**