

# CAITLIN J. CAMPBELL

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## RECENT POSITIONS AND APPOINTMENTS

Quantitative Ecologist, Bat Conservation International	2023 – present
Lead of bat bioacoustics and biodiversity informatics, Team Limelight XPrize Rainforest biodiversity inventory competition, first place team	2023 – 2024
Graduate Fellow, University of Florida, Gainesville FL	2018 – 2023
Research Fellow, National Science Foundation & Japanese Society for the Promotion of Science. Department of Biogeochemistry, Japan Agency for Marine Science and Technology, Yokosuka, Kanagawa, Japan	2016
Graduate Research Assistant, University of Maryland University of Maryland Center for Environmental Science Appalachian Laboratory, Frostburg, MD	2015 – 2018

## EDUCATION

University of Florida, Department of Biology, Zoology Advisor: Hannah B. Vander Zanden	Ph.D. 2023
Frostburg State University & University of Maryland Center for Environmental Science Appalachian Laboratory Applied Ecology and Quantitative Biology Advisor: David M. Nelson	M.S. 2018
University of Vermont Environmental Science: Conservation Biology and Biodiversity Honors College Graduate	B.S. 2012

## PUBLICATIONS

\* indicates authors with equal contributions

### PUBLISHED & IN PRESS

Publication counts: 7 first author; 2 senior author

18. Wilson, J\*, True, M\*; **Campbell, CJ**. Autumn migration to higher latitudes in Seminole bats (*Lasiurus seminolus*) redefines seasonal ranges: evidence from stable isotopes and fatality data from wind energy facilities. *Ecology & Evolution*. In press.
17. Rubin, J; **Campbell, CJ**; Carvalho, APS; St Laurent, RA; Crespo, GI; Pierson, TL; Guralnick, RP; Kawahara, AY. Macroevolutionary constraint and selection on anti-bat moth tails. *Proceedings of the Royal Society B*. 292(2046) [[link](#)]
16. **Campbell, CJ**; Gardner, JH; Rushing, CS; Norvell, R; Farr, CM; Savides, K. Quantifying rosy-finch migration with stable hydrogen isotope feather markers highlights the need for inter-state collaboration to reach conservation goals. 2025. *Avian Conservation and Ecology*. 20(1):6 [[link](#)]
15. Belitz, M; **Campbell, CJ**; Drum, RM; Leuenberger, W; Morelli, TL; Nail, J; Shirey, V; Warner, S; Thogmartin, W; Zipkin, EF. 2025. A case for community assemblage-level conservation to address the biodiversity crisis. 2025. *Nature Reviews Biodiversity*. 1, 134–143 [[link](#)]
14. Carpenter, B\* & **Campbell, CJ\***; Fanning, A; McBride, M. 2024. Migratory mixing of *Gallinago delicata* (Wilson's Snipe) in wintering areas highlights the need for international coordination for monitoring and management. *Ornithological Applications*. duae064. [[link](#)]

13. **Campbell, CJ**; Cheng, T; Akre, K; Adams, A; Solick, D; Bennett, A; Newman, C; Frick, W. Maximizing benefits to bat populations through management of power line corridors. 2024. *Ecological Solutions and Evidence*. 5 (4), e12392. [\[link\]](#)
12. Adams, AM; Trujillo, LA; **Campbell, CJ**; Akre, KL; Arroyo-Cabrales, J; Burns, L; Coleman, JTH; Morris, KM; Ortega, J; Reichard, JD; Reichert, B; Segers, JL; Whitby, MD; Frick, WF. 2024. The State of the Bats in North America. *The Annals of the New York Academy of Sciences*. 1–14. [\[link\]](#)
11. Wieringa, JM; Nagel, J; **Campbell, CJ**; Nelson, DM; Carstens BC; Gibbs, HL. 2024. Geographic sources of bats killed at wind-energy facilities in the eastern United States. *PeerJ* 12, e16796. [\[link\]](#)
10. **Campbell, CJ**; Barve, V; Belitz, M; Doby, J; White, E; Seltzer, C; Di Cecco, G; Hurlbert, A; Gurlanick, R. 2023. Identifying the Identifiers: How community processes generate consensus taxonomic knowledge in iNaturalist and why it matters for biodiversity science. *BioScience* 73(7), 533-541. [\[link\]](#)
9. McCleery, R; Guralnick, R; Kang, K; Beatty M; Potash, A; Jones, M; **Campbell, CJ**; Belitz, M; Idec, J; Fletcher, R. 2023. Uniting experiments and big data to advance conservation. *Trends in Ecology and Evolution*. [\[link\]](#)
8. Wieringa, JG; Nagel, J; **Campbell, CJ**; Nelson, DM; Carstens, BC; Gibbs, H L. 2023. Combining stable isotopes, trace elements, and distribution models to assess the geographic origins of migratory bats. *Ecosphere* 14 (6), e4588. [\[link\]](#)
7. Smith, LM; Doonan, TJ; Gore, JA; **Campbell, CJ**. 2022. Tricolored bats at a southern range edge exhibit partial migration northward in autumn. *Movement Ecology* 10(56). [\[link\]](#)
6. **Campbell, CJ**; Nelson, DM; Gates, J E; Gibbs, H L; Stevenson, E R; Johnson, B; Nagel, J; Trott, R; Wieringa, J G; Vander Zanden, H B. 2022. White-nose syndrome pathogen detected on migratory tree-roosting bats. *Journal of Wildlife Diseases* 58 (3): 652–657. [\[link\]](#)
5. **Campbell, CJ**; Fitzpatrick, MC; Vander Zanden, H; Nelson, DM. 2020. Advancing interpretation of stable isotope assignment maps: comparing and summarizing origins of known-provenance migratory bats. *Animal Migration* 7(1), 27–41. [\[link\]](#)
4. Katzner, TE; Nelson, DM; Diffendorfer, JE; Duerr, AE; **Campbell, CJ**; Leslie, D; Vander Zanden, HB; Yee, JL; Sur, M; Huso, MMP; Braham, MA; Morrison, ML; Loss, SR; Poessel, SA; Conkling, TJ; Miller, TA. 2019. Wind energy: An ecological challenge. *Science* 366(6470):1206–1207. [\[link\]](#)
3. Nelson, DM; Nagel, J; Trott, R; **Campbell, CJ**; Pruitt, L; Good, RE; Iskali, G; Gugger, PF. 2018. Carcass age and searcher identity affect morphological assessment of sex of bats. *The Journal of Wildlife Management*. 82(8), 1582-1587. [\[link\]](#)
2. **Campbell, CJ**; Nelson, DM; Ogawa, NO; Chikaraishi, Y; Ohkouchi, N. 2017. Trophic position and dietary breadth of bats revealed by nitrogen isotopic composition of amino acids. *Scientific Reports* 7:15932. [\[link\]](#)
1. Roman, J; Altman, I; Dunphy-Daly, M; **Campbell, C**; Jasny, M; Read, A. 2013. The Marine Mammal Protection Act at 40: Status, recovery, and future of U.S. marine mammals. *The Annals of the New York Academy of Sciences* 1286:29-49. [\[link\]](#)

#### SELECTED SUBMITTED PUBLICATIONS

- vi. Grady, E; Callaghan, C; **Campbell, CJ\***, Guralnick, R\*. iNaturalist users exhibit distinct spatiotemporal sampling preferences, with implications for biodiversity science and project planning.
- v. **Campbell, CJ**; Nelson, DM; Nagel, J; Clerc, J; Weller, TJ; Weiriga, JG; Fraser, E; Longstaffe, FJ; Hale, AM; Lout, M; Pruitt, L; Guralnick, R; Vander Zanden, HB. Migratory strategy is a key factor driving interactions at wind energy facilities in at-risk North American bats. *BioRxiv*. [\[link\]](#)
- iv. **Campbell, CJ**; Cheng, T; Vander Zanden, HB. Migratory bats resistant to white-nose syndrome as cryptic vectors of fungal disease spread.

- iii. Vinod Anand, A; **Campbell, CJ**; Loiselle, B; Guralnick, R. Precipitation tolerance determines elevational migration strategies of resident birds of the Western Ghats of India. **BioRxiv**. [[link](#)]
- ii. Idec, J; **Campbell, CJ**; Belitz, M; Vinod Anand, A; Guralnick, R. Using iNaturalist to estimate trait and climate drivers of daily activity patterns in temperate butterflies.
- i. Nagel, J; Nelson, DM; **Campbell, CJ**; Trott, R; Wieringa, JG; Carstens, BC; Gibbs, HL; Baerwald, E; Carson, D; Clerc, J; Green, D; Hale, A; Johnson, B; Meekins, C; Pruitt, L; Romano, B; Stevenson, ER; Weaver, A; Williams, J; Gugger, PF. Range-wide population genetic structure and effective sizes of three migratory tree bat species impacted by wind-energy development in North America.

## DISSERTATIONS & THESES

- Campbell, C. J. 2023. New methods to understand the patterns and consequences of animal migration in a changing world. Doctoral dissertation, Department of Biology, University of Florida, Gainesville, FL.
- Campbell, C. J. 2018. Refining assessment of geographic origins of animals inferred from stable isotope data. Masters thesis, Department of Biology, Frostburg State University, Frostburg, MD.
- Campbell, C. 2012. Livestock depredation by large carnivores: An analysis of human-wildlife conflict in Ehi-rovipuka, Namibia. Honors thesis: Environmental Sciences, Biology. University of Vermont, Burlington, VT.

## SOFTWARE

3. geoshift: Metrics to Compare Temporally-Explicit Species Distribution Models. 2022. **Campbell & Belitz**. [[Release](#)] [[GitHub](#)]
2. phenesse: Estimate Phenological Metrics using Presence-Only Data. 2019. Belitz, M; **Campbell, CJ**; Li, D. [[Release](#)] [[GitHub](#)]
1. isocat: Isotope Origin Clustering and Assignment Tools. 2018. **Campbell**. [[Release](#)] [[GitHub](#)]

## HONORS AND AWARDS

### RESEARCH GRANTS & FELLOWSHIPS

#### SELECTED IN REVIEW

- U.S. Department of Energy: Technology Advancement to Inform Risk to Birds and Bats from Offshore Wind Energy. \$2,521,982 (Lead PI).
- New Jersey Offshore Wind Research & Monitoring Initiative. \$500,000 (co-PI).

#### AWARDED

2023. Threadgill Dissertation Fellowship, College of Liberal Arts and Sciences, University of Florida. \$8,000.
- 2022– 2023. University of Florida Biodiversity Institute Fellowship. \$21,000.
- 2021 – 2022. University of Florida Department of Biology: Michael L. May Interdisciplinary Grant. *Project BatCast: public outreach through ecological modeling*. \$1,000. CJ Campbell (co-lead PI) & Aditi Jayarajan.
2021. University of Florida Department of Biology: Riewald Fund Research Grant. \$300 (sole PI).
2019. University of Florida Biodiversity Institute Summer Fellowship. \$4,000.
2019. Michael May Graduate Student Fellowship in Biology. \$4,000.
- 2018 – 2023. Graduate Student Funding Award Fellowship, Department of Biology, University of Florida. \$120,000.
2016. National Science Foundation: East Asia and Pacific Summer Institute Research Fellowship. *Using Amino-acid Isotopes to Investigate Dietary Patterns and Specialization of Bats*. \$5,400 (sole PI) OISE 1614267.
2016. Japanese Society for the Promotion of Science: Summer Research Fellowship. *Using Amino-acid Isotopes to Investigate Dietary Patterns and Specialization of Bats*. \$5,200 (sole PI).

### AWARDS AND HONORS

2024. XPrize Rainforest: \$5,000,000 first place team prize. Member of Team Limelight, lead of bat bioacoustics and biodiversity informatics. [[XPrize Rainforest](#)][[Limelight](#)]  
 2017. Student Presentation Award, North American Society for Bat Research Annual Symposium  
 2016. Best Student Poster, North American Society for Bat Research Annual Symposium  
 2012. Honors Graduate of the College of Arts and Sciences, University of Vermont.  
 2011. Benjamin A. Gilman International Scholarship. \$5,000.  
 2010. Round River Conservation Studies Ed Abby Scholarship. \$1,000.  
 2008 – 2012. Presidential Scholarship, University of Vermont. \$10,500.

## SELECTED PRESENTATIONS

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### INVITED

*Managing power line corridors to benefit bat populations*. Electric Power Research Institute. December 11, 2024. Virtual presentation.  
*Migration and biogeography of the hoary bat (Lasiurus cinereus)*. Renewable Energy Wildlife Institute. October 29, 2024. Virtual webinar, 558 registered attendees. [[link](#)]  
*Revealing rosy-finch migrations using stable isotope analyses*. Campbell, C. J. February 22, 2022. Rosy-finch Working Group Symposium. Virtual presentation.

### CONTRIBUTED

*Leveraging participatory science data to quantify migration phenology and monitor bat populations year-round*. Campbell, CJ; Clerc, J; Dempsey, L; Frick, W; O'Mara, MT; Whitby, M; Weller, T. October 24, 2024. North American Society for Bat Research, Guadalajara, Jalisco, MEX.  
*Migration is a key factor driving distribution and interactions with energy development in at-risk bats*. Campbell, CJ; Nelson, NM; Nagel, J; Clerc, J; Guralnick, R; Vander Zanden, HB. October 12, 2023. North American Society for Bat Research, Winnipeg, Manitoba, CAN.  
*Identifying the Identifiers: How iNaturalist facilitates collaborative, research-relevant data generation and why it matters for biodiversity science*. Campbell, CJ; Barve, V; Belitz, M; Doby, J; White, E; Seltzer, C; Di Cecco, G; Hurlbert, AH; Guralnick, R. April 18, 2023. University of Florida Biodiversity Institute Symposium, Gainesville, FL.  
*High-resolution seasonally-explicit distribution models reveal bat migration at the macroecological scale*. Campbell, CJ; Belitz, M; Guralnick, R; Fletcher, RJ; Vander Zanden, HB. August 9, 2022. North American Society for Bat Research, Austin, TX.  
*The R package 'isocat', a toolset for comparing and summarizing origins of animals inferred from stable isotope data*. Campbell, CJ; Fitzpatrick, MC; Vander Zanden, H; Nelson, DM. May 20, 2021. Oral Presentation. Applications of Stable Isotope Techniques to Ecological Studies (IsoEcol), virtual meeting.  
*A framework for predicting migratory behavior and wind-development impacts: Uniting morphological and life-history characteristics with distribution-based migration models*. Campbell, CJ & Vander Zanden, HB. Oral Presentation. December 2020. 13<sup>th</sup> Wind Wildlife Research Meeting, online.  
*A review of cave and mine use by tree-roosting bats*. Campbell, CJ & Vander Zanden, HB. Poster presentation. February 2020. 25th Annual Meeting of the Southeastern Bat Diversity Network and 30th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Athens, GA.  
*Hydrogen isotopes reveal complex seasonal migratory structure in at-risk tree-roosting bats in North America*. Campbell, CJ & Nelson, DM. Oral presentation. October 2019. North American Society for Bat Research, Kalamazoo, MI.  
*Hydrogen isotopes reveal complex seasonal migratory structure in at-risk tree-roosting bats in North America*. Campbell, CJ & Nelson, DM. Oral presentation. International Congress for Conservation

Biology, Kuala Lumpur, Malaysia; July 24, 2019 & International Bat Research Conference, Phuket, Thailand, July 31, 2019

*Range-Wide Migratory Patterns of North American Tree-Roosting Bats*. Campbell, CJ; Fitzpatrick, M; Nelson, DM. Oral presentation (Student Presentation Award). October 19, 2017. North American Society for Bat Research Annual Symposium, Knoxville, TN.

*Amino acid nitrogen isotopes reveal the trophic position and dietary strategies of bats*. Campbell, CJ; Nelson, DM; Ogawa, N; Chikaraishi, Y; Okhouchi, N. October 13, 2016. Poster presentation (Best Student Poster Award). North American Society for Bat Research Annual Symposium, San Antonio, TX.

## TEACHING EXPERIENCE

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### COURSES

Teaching Assistant, *Global Change Ecology and Sustainability*, Spring 2019 – Fall 2020. Department of Biology, University of Florida

Instructor, *X-Lab cross-disciplinary laboratory*, Fall 2018. Applied skills and inquiry-based laboratory integrating intensive introductory biology, chemistry, and physics. University of Florida

Instructor, *Anatomy & Physiology Laboratory*. January 2016 – May 2016. Frostburg State University Department of Biology, Frostburg, MD

### GUEST LECTURES

*Assessing the capacity for migratory bats to serve as long-distance vectors of white-nose syndrome pathogen Pseudogymnoascus destructans*, April 5 2021. Behavioral Drivers of Disease (ZOO4926), Department of Biology, University of Florida, Gainesville, FL.

*Bat migration in a changing world*, November 29, 2022. Animal Migration: Journeys by Air, Land and Water (ZOO4926), Department of Biology, University of Florida, Gainesville, FL.

*Bats! A Brief Introduction to Microchiroptera*. July 6, 2016. Department of Biogeochemistry, Japanese Agency of Marine Science and Technology, Yokosuka, Kanagawa, Japan.

### WORKSHOPS

#### Data and Software Analysis

*Data analysis and visualization in R for ecologists*. Organizer and instructor, September 19-20, 2022

*Data analysis in R*. Instructor, February 22–23, 2022

*Introduction to R*. Instructor: January 31–February 1, 2022; September 27–28, 2021. Helper: January 25–26, 2021

*Introduction to Geospatial Analysis in R*. Helper, March 22–23, 2021

*Introduction to Python, Shell, and Git*. Helper, April 11–12, 2022

#### Stable Isotope Analysis

*From Haircuts to Origin Models: A Guide to Emerging Tools to Study Animal Movement by Stable Isotope Analysis*. Workshop Presenter, February 21, 2019. Combined annual meetings of the Southeastern Bat Diversity Network (SBDN) and Annual Colloquium on the Conservation of Mammals in the Southeastern U.S. [[link](#)]

## MENTORING ACTIVITIES

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### PANELS AND OUTREACH

**Panelist** at Biology Graduate Student Experience event Feb 27 2019

Outreach to provide new graduate students advice and support on navigating graduate school and research. Event sponsored by the Biology Graduate Student Association Mental Health Committee.

**Panelist** for University of Florida Graduate School Nov 15 2019

Outreach event to provide undergraduate students advice about STEM graduate programs. Event co-sponsored by graduate student career-building club POLY/PMSE and chemistry fraternity Alpha Chi Sigma.

**Founder & Coordinator**, Graduate Student Writing Group 2015 –2018

Weekly inter-institutional meetings of graduate students from University of Maryland Center for Environmental Science Appalachian Laboratory and the Department of Biology of Frostburg State University to workshop writing skills.

#### GRADUATE STUDENT MENTORSHIP (SELECTED)

Yuting Deng, Colorado State University. Free-tailed bat monitoring with weather radar, 2023–present  
Vinod Akshay Anand, Florida Museum of Natural History. Avian migration and biodiversity informatics. 2023–present

Erin Grady, University of Florida. iNaturalist user activity patterns, 2024–present

Jacob Idec, Florida Museum of Natural History. Diel phenology and ecoinformatics. 2024–present

Kate Davis, University of Florida. Stable isotopes and invasive python dietary inputs. 2024–present

Liz Hurtado, University of Florida. Geographic origins of bird window strikes. 2025–present

#### UNDERGRADUATE MENTORSHIP

**Independent Research** by Sierra Scauzillo of the University of Florida Wildlife Ecology and Conservation. Data collection and quantitative synthesis of bat trait data. 2020–2022.

**Stable isotope analysis.** Wet lab sample preparation and analysis, data management.

Becca Phillips (2017), Sarah Sprouse (2017), Becca Hiller (2015–2016).

Kamren Jefferson (2016); Jake Blakely (2016); & Crystal Tippet (2016) co-led presentation on their stable isotope research at Frostburg State University Undergraduate Research Symposium, May 6, 2016. Kamren is now a biologist with the U.S. EPA.

#### RESEARCH EXPERIENCE & PROFESSIONAL DEVELOPMENT

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<b>Crew Leader</b> , Endangered Bat Monitoring Arkansas State University / U.S. Forest Service, Jonesboro, AR.	Summer 2015
<b>Research Technician</b> , Bat Research and Management New York Department of Environmental Conservation, Albany, NY	Jan – May 2015
<b>Research Assistant</b> , Herpetofauna Ecology Florida International University, Sarapiquí, Costa Rica	Nov – Dec 2014
<b>Senior Research Technician</b> , Endangered Bat Monitoring Arkansas State University / U.S. Forest Service, Jonesboro, AR	May – Aug 2014
<b>Field Ecologist</b> , Endangered Bat Monitoring Mitigation Surveying Services LLC, Benton, AR	June – Aug 2014
<b>Field Assistant</b> , Mammal Diversity Monitoring Smithsonian Conservation Biological Institute, Chiapas, Mexico	Jan – Apr 2014
<b>Research Technician</b> , Endangered Bat Species Survey Arkansas State University / U.S. Forest Service, Jonesboro, AR	May – Aug 2013
<b>Research Assistant</b> , Conservation Ecology Gund Institute of Ecological Economics, University of Vermont, Burlington, VT	2009 – 2013
<b>Student Research Assistant</b> Round River Conservation Studies, Wereldsend, Kunene, Namibia	Feb–May 2011
<b>Volunteer</b> , Invasive Species and Biocontrol Nashua River Watershed Association, Groton, MA	2007 – 2009
<b>Intern</b> , Biodiversity and Administration Massachusetts Audubon Society, Princeton and Worcester, MA	2008



## SELECTED PROFESSIONAL DEVELOPMENT

Radar Aeroecology Workshop. Radar remote sensing, data visualization, and data processing. University of Delaware.	Aug 2024
Inclusive Field Safety: Developing Field Safety Standards and Guidelines for Diverse Researchers. Interactive workshop session, North American Congress for Conservation Biology.	Jun 2024
Bat acoustic analysis. Workshop, Northeastern Bat Working Group	Jan 2024
Instructor training. Inclusive pedagogy for teaching data science and programming. Certification from The Carpentries <a href="#">[link]</a> .	Fall 2021
AI in Biology. Computer vision, deep learning, Python programming. 3-credit course, University of Florida. <a href="#">[link]</a>	Spring 2021
Geospatial analysis in R. Two-day training, UF Software & Data Carpentry	May 2019

## ENGAGEMENT, SERVICE, AND OUTREACH

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### SERVICE

#### Peer reviewer

2024: *Acta Chiropterologica*, *BioScience*, *Ecology* (x2), *Herpetological Conservation and Biology*, *Ornithology*, *Progress in Earth and Planetary Science*  
2023: *Acta Chiropterologica*, *Diversity and Distributions*, *Journal of Wildlife Management* (x2)  
Previously: *Animal Migration*, *Science of The Total Environment*, *Journal of Mammalogy* (x2), *Journal of Wildlife Management*

#### Board Member

2021 – 2023

University of Florida Carpentries Organization. Workshops and curriculum development of Software and Data Carpentry workshops for community members. [uf-carpentries.org](https://uf-carpentries.org).

#### Code of Conduct Representative

2022 – 2023

University of Florida Biology Graduate Student Organization

### AFFILIATIONS

#### Memberships

Ecological Society of America; North American Society for Bat Research (2015 – present); Society for Conservation Biology; RLadies (2017 – 2020)

#### Working groups

Northeastern Bat Working Group (2015 – 2018; 2023 – present); Florida Bat Working Group (2017 – 2023); Rosy-finch working group (2022); Southeastern Bat Diversity Network (2013 – 2015; 2017 – 2023)

### MEDIA

**X Prize Rainforest Team Limelight.** “Florida Museum curator helps team score 1st-place and \$5 million in international biodiversity competition.” *Florida Museum of Natural History Research News*. November 18, 2024. [\[link\]](#)

**Project BatCast**, University of Florida. [\[link\]](#)

### PUBLIC OUTREACH

**iNaturalist identifier**, 2019-present. Active identifier of bat observations posted to public science platform iNaturalist ([inaturalist.org](https://inaturalist.org)), provides outreach and advice on bat identification and coexistence. Identified > 13,000 observations, ranked fourth most active bat identifier globally.

**Director, Project BatCast**, 2021-2023. Outreach research initiative to engage with the public on bat biology and conservation. [cjcampbell.github.io/BatCast](https://cjcampbell.github.io/BatCast); [twitter.com/uf\\_bats](https://twitter.com/uf_bats)

**iDigTRIO Outreach**, February 24, 2022. Guide for iDigTrio Biology Career Conference and Fair at University of Florida: [idigtrio.org](https://idigtrio.org)



**Open House Host**, Bat Ecology and Conservation, University of Maryland Center for Environmental Science Appalachian Laboratory Open House. Public outreach to community and families including bat ecology, behavior, ecosystem services, and conservation status. May 7, 2016.

**Elementary School Outreach**, Endangered Bats of Maryland. Presentation to local elementary school in rural Appalachia on natural history, ecology, threats, and legal status of local bats, Oct 2, 2015

**Open House Host**, Herpetofauna of Sarapiquí, Costa Rica. Educational presentation, live animal handling, and public outreach at La Selva Biological Station Open House, Nov 9, 2014

**Author**, Article for local online paper on coexisting with black bears in Massachusetts: “Your New Groton Neighbors, The Bears, May Be Dropping By.” TheGrotonLine.com. Nov 21, 2013

**Community Technology Training**, Week-long collaboration with Ehi-rovipuka conservancy conservation officers: training on data collection and database management, open-source document managers, email and outreach. Round River Conservation Studies, March 2012.

**Volunteer**, Invasive Species and Biocontrol, Nashua River Watershed Association, Groton, MA, 2007-2009