

# AMANDA S. CICCHINO

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## APPOINTMENTS

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2023 **Postdoctoral Fellow**, Colorado State University, Fort Collins, Colorado, USA

## EDUCATION

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- 2023 **PhD in Ecology**, Colorado State University, Fort Collins, Colorado, USA  
Dissertation: Linking organismal physiology and the landscape to predict vulnerability to climate change.  
Advisor: W. Chris Funk
- 2017 **MSc in Biology**, Queen's University, Kingston, Ontario, Canada  
Thesis: Trade-offs in arboreal calling behaviour across the range of the spring peeper.  
Advisor: Stephen C. Loughheed
- 2015 **BSc (Honours) in Biology**, Queen's University, Kingston, Ontario, Canada  
Honour's Thesis: Intraspecific call variation in the spring peeper.  
Advisor: Stephen C. Loughheed

## PEER-REVIEWED PUBLICATIONS

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\* denotes undergraduate co-author

8. **AS Cicchino**, AA Shah, BR Forester, JB Dunham, NLR Poff, CK Ghalambor, WC Funk. Acute effects of temperature confound estimates of acclimation capacity of critical thermal maximum with consequences for vulnerability assessments. Accepted. *Ecosphere*.
7. **AS Cicchino**, CK Ghalambor, WC Funk. Linking critical thermal maximum to mortality from thermal stress in a cold-water frog. Accepted. *Biology Letters*.
6. **AS Cicchino**, AA Shah, BR Forester, JB Dunham, CK Ghalambor, WC Funk. Multi-scale relationships in thermal limits within and between two cold-water frog specialists uncover different trends in physiological vulnerability. Accepted. *Freshwater Biology*.
5. **AS Cicchino** & C Martinez\*, WC Funk, BR Forester. Temperature and development drive variation in oral morphology among tailed frog (*Ascaphus spp.*) populations. Accepted. *Ichthyology and Herpetology*.
4. **AS Cicchino**, AE Weinberg, LB Sample McMeeking, MM Balgopal. 2023. Critical pedagogy of place to enhance ecological engagement activities. *Conservation Biology* 37: e14023.  
<https://doi.org/10.1111/cobi.14023>
3. NA Cairns, **AS Cicchino**, KA Stewart, JD Austin & SC Loughheed. 2021. Cytonuclear discordance, reticulation and cryptic diversity in one of North America's most common frogs. *Molecular Phylogenetics and Evolution* 156:107042.
2. **AS Cicchino**, NA Cairns, G Bulté & SC Loughheed. 2020. High and dry: Trade-off in arboreal calling in a treefrog mediated by local environment. *Behavioral Ecology* 31: 132 – 139.
1. **AS Cicchino**, NA Cairns & SC Loughheed. 2017. Reproductive phenology of temperate, female frogs: missing data in a changing world. *Herpetological Review* 48:10-15.

## GRANTS, AWARDS, & FELLOWSHIPS (\$349 057 TOTAL)

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2022	Joint Fire Science Program, Graduate Research Innovation Award	\$24,972
2022	National Science Foundation RAPID: DEB-2221744 (co-wrote) PIs: Chris Funk & Alisha Shah I am listed as Sr Personnel. I played a fundamental role in the development of the study and hypotheses, collection of preliminary data, and writing of all aspects of the proposal.	\$200,000
2022	National Science Foundation Covid Supplement for 1838282 (co-wrote); PI: Chris Funk	\$28,212
2021	Conference Travel Award, Department of Biology, Colorado State University	\$882
2021	Professional Development Award, Graduate Degree Program in Ecology, Colorado State University	\$500
2021	National Science Foundation REU (co-wrote); PI: Chris Funk	\$8,000
2021	National Science Foundation Covid Supplement for 1838282 (co-wrote); PI: Chris Funk	\$11,000
2021	CSU COVID-19 Teaching & Research Student Employment Initiative (co-wrote); PI: Chris Funk	\$1,041
2020	Graduate Degree Program in Ecology Supplemental Funds Award	\$300
2020	College of Natural Sciences Dr. Heather M. Rueth Ecology Scholarship	\$1,900
2020	Graduate Degree Program in Ecology Small Research Grant	\$1,500
2019	PGS-D Natural Sciences and Engineering Research Council of Canada (NSERC) Scholarship	\$48,000
2019	Lewontin Early Graduate Research Excellence Grant, Society for the Study of Evolution	\$2,500
2017	Programs for Research and Scholarly Excellence Fellowship, Colorado State University Graduate School	\$2000
2017	Queen's Graduate Award	\$8,000
2016	Queen's Graduate Award	\$8,000
2016	ASIH Frederick and Helen Gaige Award	\$1,000
2014	J. Allen Keast Lake Opinicon Undergraduate Research Fellowship	\$1,250

## HONORS

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2023	Excellence in Undergraduate Teaching and Mentoring Award, Department of Biology, Colorado State University
2022	Society for Integrative and Comparative Biology- Division of Ecology & Evolution Best Student Presentation Ray Huey Award
2021	Sustainability Leadership Fellow, School of Global Environmental Sustainability, Colorado State University

## TEACHING EXPERIENCE & PROFESSIONAL DEVELOPMENT

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### Graduate Teaching Assistant

Botany/Zoology 220, *Introduction to Evolution*, Colorado State University (Fall 2020, 2021).

Botany/Zoology 449, *Ecology and Conservation of Ecuadorian Biodiversity Field Course*, Colorado State University (Winter 2019 & 2020).

Botany/Zoology 329, *Herpetology*, Colorado State University (Spring 2018 & 2019).

Botany/Zoology 111, *Introduction to Animal Biology*, Colorado State University (Fall 2017 & 2018, Summer 2017, Spring 2020, 2022).

Biology 321, *Animal Behaviour*, Queen's University (Winter/Spring 2016 & 2017).

Biology 307, Field Course: Ecology of Amphibians and Reptiles, Queen's University through Ontario University Field Course Program (Summer 2016).

Biology 303, *Community Ecology and Evolution*, Queen's University (Winter/Spring 2017).

Biology 302, *Population and Evolutionary Ecology*, Queen's University (Fall 2016).

Biology 103, *Introductory Biology of Organisms*, Queen's University (Fall 2015).

### Guest Lecture

Botany/Zoology 220, Evolution Colorado State University, "Precambrian Evolution" (2021)

Botany/Zoology 220 Honor's, Colorado State University, "The Evolution of Unique Species" (2021)

Botany/Zoology 220, Evolution Colorado State University, "Evolutionary Medicine" (2020)

Botany/Zoology 349, Tropical Ecology, Colorado State University, "Predation & prey defenses" (2019).

Biology 302, Population and Evolutionary Ecology, Queen's University, "Drivers of call differences between intraspecific lineages of a North American frog" (2016).

Biology 307, Field Course: Ecology of Amphibians and Reptiles, Queen's University through Ontario University Field Course Program, "Sonographic analyses of anuran acoustics" (2016).

### Professional & Skill Development

The Role of Emotional Intelligence in Leadership Workshop, September 2022

Migrated BZ220 Course to a new version of Canvas

College of Natural Sciences Team Science Seminar, November 2021

College of Natural Sciences MTI Teaching Initiative: First Four Weeks Workshop, April 2021

### UNDERGRADUATE STUDENT MENTORSHIP

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\* Honor's thesis, † presentation, ‡ publication

Jacey Murphy, Colorado State University, 2022-2023. Project: The impacts of trematode infection on tadpole thermal tolerance. Trained in field work techniques, dissection techniques, data analyses in R, and writing a scientific paper.

Rachel Jackson\*†, Colorado State University, 2020 NSF REU recipient. Project: Coevolution of predator-prey thermal tolerance in cold-adapted amphibian species. Trained in field and lab techniques, data analyses in R, and writing a scientific paper.

- Rachel won 1st place in STEM for their presentation at CSU's Multicultural Undergraduate Research Art and Leadership Symposium.

Rheanna Gimple, Colorado State University. 2018-2020. Project: Tadpole development of *Ascaphus* species. Trained in field work techniques, data analyses in R, and writing a scientific paper.

Christina Martinez\*‡, Colorado State University. 2017-2019. *Ascaphus* tadpole oral morphology.

Ying Chen\*†, Queen's University. 2016. Thesis project: Relation of chorusing intensity to temperature across latitudes of temperate frogs. Currently a PhD student at Queen's University. Trained in developing research question, field and lab techniques, data analyses in R, and writing of thesis.

Carmen Gemmell\*†, Queen's University. 2015-2016. Thesis project: Temporal and spatial habitat partitioning among anuran species of Eastern Ontario. Trained in developing research question, field and lab techniques, data analyses in R, and writing of thesis.

Matthew Kahansky\*†, Queen's University. 2015-2016. Thesis project: The effect of habitat on transmission of Ontario anuran advertisement calls. Trained in developing research question, field and lab techniques, data analyses in R, and writing of thesis.

### SEMINARS AND PRESENTATIONS

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2023 AS Cicchino, BR Forester, J Dunham, CK Ghaleb, EL Landguth, AA Shah, and WC Funk. How a cold-water specialist survived a wildfire. Society for Integrative and Comparative Biology. Austin, TX.

- 2022 AS Cicchino, AA Shah, BR Forester, JB Dunham, NLR Poff, CK Ghalambor, WC Funk. Acute effects of temperature confound estimates of acclimation capacity of critical thermal maximum with consequences for vulnerability assessments. Society for Integrative and Comparative Biology. Phoenix, AZ.
- DEE Best Student Presentation Award
- 2020 AS Cicchino, BR Forester, WC Funk. Species' persistence through climate change: Reassessing flexibility in thermal tolerance (Poster). Colorado State University Graduate Student Showcase. Fort Collins, CO.
- 2020 AS Cicchino, AA Shah, BR Forester, WC Funk. Measuring buffering capacity to climate change: What a frog can tell us. Front Range Student Ecology Symposium. Fort Collins, CO.
- 2019 AS Cicchino, BR Forester, WC Funk. Physiological plasticity in a cold-adapted frog may not be the answer to climate change (Poster). Colorado State University Graduate Student Showcase. Fort Collins, CO.
- 2019 AS Cicchino, L Schwartz, T Burg, BR Forester, B Graham, EL Landguth. Optimizing hybrid detection using genetic simulations (Poster). International Association of Landscape Ecology – North American Chapter Conference. Fort Collins, CO.
- 2017 AS Cicchino, NA Cairns, G Bulte & SC Loughheed. Arboreality in the spring peeper: Testing for evolutionary tradeoffs. Queen's University Biological Station Seminar Series, Chaffey's Locks, ON.
- 2017 AS Cicchino, NA Cairns & SC Loughheed. Selective pressures shaping call variation in the spring peeper. Ontario Ecology, Ethology and Evolution Colloquium. Kingston, ON.
- 2016 AS Cicchino, NA Cairns & SC Loughheed. Intraspecific call divergence in the Spring Peeper (Poster). Canadian Herpetological Society Annual Meeting. Toronto, ON.
- 2015 AS Cicchino, NA Cairns & SC Loughheed. Call divergence of the Spring Peeper. Inquiry at Queen's Undergraduate Conference. Queen's University, Kingston, ON.

## COMMUNITY ENGAGEMENT

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- 2022 Led a workshop on "Local Biodiversity" for Front Range Community College Zoology class (~19 students) using CSU's museum collections.
- 2021 Ignite talk and panel for Graduate Degree Program in Ecology Recruitment Event.
- 2019-2022 Biology Department Panel for Incoming Graduate and Undergraduate Students.
- 2019 Panel Participant, Minorities in Agriculture, Natural Resources, and Related Sciences.
- 2018, 2019 Biology Department Tours for Prospective Undergraduate Students.
- 2017 Let's Talk Science! Herpetology Module at Elbow Lake Environmental Education Centre
- Queen's University Biological Station Open House (Poster Presentation).
- 2016 Science Literacy Week, Queen's University (Poster Presentation).
- 2015, 2016 Queen's University Biological Station Open House (Poster Presentation and Herpetology Module).
- 2015 Science Quest Camp, Biological Conservation Presentation.
- Kingston High School, Herpetological Research Presentation.

## ACADEMIC SERVICE

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- DEE Ray Huey Best Student Post Presentation Judge; SICB 2023.
- Workshop Lead: [Part 1] Finding funding and outlining competitive proposals; [Part 2] Creating a budget, understanding institutional costs, developing deliverables. Ecology 505: Foundations of Ecology course for graduate students.

Workshop Lead: Communicating Science with the Media; Workshop for Lab Groups, Biology CSU

Seminar Moderator: Front Range Student Ecology Symposium. Fort Collins CO.

Volunteer: International Association of Landscape Ecology – North American Chapter Conference. Fort Collins CO;  
Front Range Student Ecology Symposium, Fort Collins CO.

Reviewer: *Integrative Organismal Biology*, *Herpetological Review*, *Ichthyology and Herpetology*. *Revista de Biología Tropical*

Committee Member: Behavioural and Ecological Biology Research Graduate Seminars, Queen's University.

Professional Memberships: Society for Integrative and Comparative Biology, Society for the Study of Evolution,  
Society for the Study of Amphibians and Reptiles, American Society of Ichthyologists and Herpetologists.