

Jessica L. Tingle

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Education

University of California, Riverside

PhD Candidate in Evolution, Ecology, and Organismal Biology
September 2015 – present
Advisor: Theodore Garland, Jr.

Cornell University

B.S. May 2012 in Biological Sciences, Cum Laude and Distinction in Research
Concentration: Ecology and Evolutionary Biology
Minor: Latin American Studies

Publications

- Tingle, J.L.**, G.E.A. Gartner, B.C. Jayne, and T. Garland, Jr. 2017. Ecological and phylogenetic variability in the in the spinalis muscle of snakes. *Journal of Evolutionary Biology* 30(11): 2031-2043. DOI: 10.1111/jeb.13173.
- Tingle, J.L.** and T. Slimani. 2017. Modern Moroccan snake charming. *Journal of North African Studies* 22(4):560-577. DOI 10.1080/13629387.2017.1296357.
- Tingle, J.L.**, S.C. Cook-Patton, and A.A. Agrawal. 2016. Spillover of a biological control agent (*Chrysolina quadrigemina*) onto native St. Johnswort (*Hypericum punctatum*). *PeerJ* 4:e1886; DOI 10.7717/peerj.1886
- Tingle, J.L.** 2013. Developing an undergraduate herpetology club at Cornell University. *Herpetological Review* 44(2):185-187. [invited article]
- Tingle, J.L.** 2012. Field observations on the behavioral ecology of the Madagascan leaf-nosed snake, *Langaha madagascariensis*. *Herpetological Conservation and Biology* 7:442-448.

Fellowships

- Graduate Research Fellowship**, National Science Foundation
\$138,000, September 2015 – present
- Chancellor's Distinguished Fellowship**, UC Riverside
\$25,000, September 2015 – June 2016
- Fulbright Scholarship**, U.S. Department of State
\$15,220, January – November 2014

Critical Language Enhancement Award (Arabic), U.S. Department of State
\$7,660, September 2013 – January 2014

Hughes Scholars Program, Howard Hughes Medical Institute
\$2,000, June – August 2010

Research Grants

Herman T. and Evelyn W. Spieth Memorial Graduate Award in Biology, UC Riverside
\$1,000, April 2019

Graduate Dean's Dissertation Research Grant, UC Riverside
\$800, January 2019

E.E. Williams Research Grant, Herpetologists' League
\$1,000, April 2018

Vaughan H. Shoemaker Graduate Fellowship, UC Riverside
\$750, June 2017

Fellowship for Graduate Student Travel, Society for Integrative and Comparative Biology
\$1,400, January 2017

Honors and Awards

First place, Grad Slam finalists at UCR Palm Desert

\$500 prize, April 2019

Competition where Grad Slam finalists from UC Riverside presented their research in three minutes or less to an audience at UCR's Palm Desert campus

Second runner up, Grad Slam

\$1,000 prize, March 2019

Competition where over 50 UC Riverside graduate students in all disciplines presented their research in three minutes or less to a panel of judges from outside their field

James Merrill and Adeline Wallace Annual Prize

\$2,000 prize, February 2019

Award for completed research in UC Riverside's College of Natural and Agricultural Sciences

First place, Science Slam

\$500 prize, November 2018

Competition where graduate students in UC Riverside's College of Natural and Agricultural Sciences presented their research in five minutes or less to an audience of alumni during homecoming weekend

First runner up, Herpetologists' League Graduate Research Award

\$250 prize, July 2018

Award for student research presentations at the annual Joint Meeting of Ichthyologists and Herpetologists

Outstanding Teaching Assistant Award

2017-2018 academic year

Award given by the UC Riverside Graduate Division to recognize teaching assistants who have demonstrated exceptional teaching skills

First place (tie), GradFest Student Presentation Competition

\$50 prize, March 2018

Student presentation competition at UC Riverside's Department of Evolution, Ecology, and Organismal Biology's graduate student recruitment weekend

First place, Southwest Herp Fest Student Competition

\$75 prize, February 2017

Student presentation competition at a regional herpetology conference

Cum Laude and Distinction in Research

Cornell University, May 2012

Lectures and Presentations

Oral presentation at the Society for Integrative and Comparative Biology annual meeting:

*Body size and shape influence kinematics of sidewinding locomotion in the rattlesnake *Crotalus cerastes** (January 2019; Tampa, Florida)

Oral presentation at the Southwestern Organismal Biology regional meeting: *Scaling of morphology and locomotion in sidewinder rattlesnakes* (November 2018; San Marcos, California)

Oral presentation at the Joint Meeting of Ichthyologists and Herpetologists: *Scaling of morphology and locomotion in the sidewinder rattlesnake, *Crotalus cerastes** (July 2018; Rochester, New York)

Invited lecture at the Southwestern Herpetologist's Society: *Evolution and biomechanics of sidewinding locomotion* (April 2018; Pasadena, California)

Oral presentation at the Society for Integrative and Comparative Biology annual meeting: *Effects of body size and morphology on sidewinding kinematics in the rattlesnake *Crotalus cerastes** (January 2018; San Francisco, California)

Oral presentation at the Joint Meeting of Ichthyologists and Herpetologists: *Morphological correlates of locomotor specialization in vipers* (July 2017; Austin, Texas)

Oral presentation at Southwest Herp Fest: *Morphological correlates of locomotor specialization in vipers* (February 2017; Riverside, CA)

- Poster presentation at the Society for Integrative and Comparative Biology annual meeting:** *Morphological correlates of sidewinding locomotion in vipers* (January 2017; New Orleans, Louisiana; featured in the blog *Better Posters*)
- Oral presentation at the Southwestern Organismal Biology regional meeting:** *Morphological correlates of locomotor specialization in vipers* (November 2016; Fullerton, California)
- Oral presentation at the Society for the Study of Amphibians and Reptiles meeting:** *Moroccan snake charming* (July 2015; Lawrence, Kansas)
- Oral presentation at the Moroccan Studies Symposium:** *Relating human activities and environmental science: A case study of snake charming in Morocco* (May 2014; Rabat, Morocco)
- Oral presentation at the Fulbright MENA Regional Seminar:** *The relationship between people and reptiles in Morocco* (February 2014; Amman, Jordan)
- Oral presentation in the Cornell Herpetological Society Fall Speaker Series:** *Rattlesnake-rodent interactions in California* (September 2012; Ithaca, New York)
- Invited lecture at the Kentucky Herpetological Society:** *The herpetofauna of Madagascar, with field observations on the Madagascar leaf-nosed snake* (August 2012; Louisville, Kentucky)
- Oral presentation at the Cornell Ecology and Evolutionary Biology Undergraduate Honors Thesis Seminar:** *Interactions of native and exotic *St. Johnswort* with an introduced biological control agent* (May 2012; Ithaca, New York)
- Oral presentation at the Cornell Herpetological Society Fall Speaker Series:** *Behavioral ecology of the Madagascar leaf-nosed snake* (September 2011; Ithaca, NY)
- Poster presentation at the Joint Meeting of Ichthyologists and Herpetologists:** *Behavioral ecology of the Madagascar leaf-nosed snake* (July 2011; Minneapolis, Minnesota)
- Oral presentation at the Annual Hughes Scholars Research Symposium:** *Interactions of native and exotic *St. Johnswort* with an introduced biological control agent* (August 2010; Ithaca, New York)

Teaching

Experience

- Teaching Assistant for BIOL 161A: Functional Anatomy of the Vertebrates**
University of California, Riverside; undergraduate course (Fall 2017 and Fall 2018)
- Guest Seminar Leader for EEOB 210: Organismal Biology**
University of California, Riverside; graduate course (Spring 2018)
- Guest Lecturer for BIOL 5B: Introduction to Organismal Biology**
University of California, Riverside; undergraduate course (May 2017)

Training/certifications

GDIV 301: Advanced University Level Pedagogy

University of California, Riverside (January – March 2019)

Highly selective graduate level course on innovative practices in pedagogy

Graduate Student Diversity Certificate Program: “Making Excellence Inclusive”

University of California, Riverside (March – June 2018)

Weekly three-hour-long workshop that teaches skills for promoting equity and inclusiveness in the classroom

BIOL 301: Teaching Biology at the College Level

University of California, Riverside (September – December 2017)

Graduate level course to increase TA effectiveness

Teaching Development Day

University of California, Riverside (May 2017)

Series of workshops covering various topics in pedagogy

Educational Outreach

Long-term outreach positions

Herpetology Hotline Responder (September 2017 – present)

Answers questions related to reptiles and amphibians via the Society for the Study of Amphibians and Reptiles online herpetology hotline, which is accessible to the general public. To date, I have answered 116 questions in English and Spanish on topics ranging from species identification to the physiology of TaunTauns (and everything in between). I have had several ongoing conversations with elementary, high school, and college students looking for mentorship as they begin to pursue a career in herpetology.

Science Surprises Part-Time Educator, Science Center, Ithaca, NY (February 2013 – June 2013)

Provided an after school enrichment program to elementary-aged children by preparing and delivering inquiry-based science activities at local schools.

Educational presentations

What is a scientist? Familiarized middle school students with general goals and specific activities of scientists, then led a miniature research project in which students started with a question (is it possible to taste the difference between M&M colors?), designed an experiment, and evaluated results and potential shortcomings of their experiment.

Stewart Middle Magnet School, Tampa, FL, two 6th grade classes (January 8, 2019)

Animal adaptations presentation. Taught elementary school students about animal adaptations using hand-on activities.

Columbia Elementary School, Perris, CA, four 3rd grade classes (May 31, 2018)

Bethune Elementary School, Moreno Valley, CA, three 4th grade classes (March 8, 2017)

Columbia Elementary School, Perris, CA, four 3rd grade classes (December 7, 2016)

STEAM storytime. Read children a story about rattlesnakes in the desert, then taught them about snake biology using shed skins, microscope, and a live snake.

La Sierra Library, Riverside, CA (May 15, 2018)

Reptiles outreach at an after-school science club. Used live animals to instill knowledge of and appreciation for reptiles in elementary school students.

REACH Leadership and STEM Academy, Riverside, CA, K– 6th grade (March 14, 2018)

REACH Leadership and STEM Academy, Riverside, CA, 2nd grade (November 29, 2016)

Science Olympiad mentorship. Led workshops to prepare students for the high school Science Olympiad competition.

Riverside STEM Academy, Riverside, CA (December 2017 – February 2018)

Lunchtime science careers conversation. Discussed scientific research, academic and career opportunities with low-income high school students in the Upward Bound Math and Science Program.

Vista Del Lago High School in Moreno Valley, CA (April 18, 2017)

UC Riverside Science Day. Led activities for ~200 fourth grade students to learn about animal diversity and adaptations. (February 24, 2017)

Cornell Herpetological Society. As a member of this undergraduate club, I participated in numerous educational outreach events aimed for undergraduates, elementary school students, and Ithaca, NY community members over several years. (2009-2012)

Other educational outreach/community service

Science Fair Judging. Scored science fair posters and project reports. Provided detailed feedback regarding ways students could improve experimental design and analysis.

Riverside Unified School District, Riverside, CA (February 5, 2019)

St. Catherine of Alexandria School, Riverside, CA, (January 11, 2019)

Online educational materials

A Crawling Shape Intrude, blog (2012-2014)

Created and maintained blog on the ways that humans and reptiles interact. Available online at <https://jleetingle.wordpress.com/>

Adventures of the Cornell Herpetological Society, blog (2011-2012)

Created and maintained undergraduate herpetology club blog. Available online at <http://cuherps.blogspot.com/>

Reptiles: Diversity, Feeding, Defense, video (2012)

Developed and presented educational video with fellow student Anna Kusler as part of the Cornell University Naturalist Outreach Program. Available online at <http://www.cornell.edu/video/naturalist-outreach-reptiles---diversity-feeding--defense>

Basic Biology of Reptiles & Amphibians, educational pamphlet (2012)

Developed educational pamphlet with fellow student Anna Kusler as part of the Cornell University Naturalist Outreach Program. Available online at <http://calscomm.cals.cornell.edu/naturalist/Naturalist-Outreach-Reptile-diversity-feeding-defense.pdf>

Professional Leadership and Service

Chair, Student Participation Committee, Society for the Study of Amphibians and Reptiles (July 2018 – present)

Long Range Planning Committee member, Society for the Study of Amphibians and Reptiles (March 2019 – present)

Mentorship Committee member, Society for the Study of Amphibians and Reptiles (February 2019 – present)

Reviewer

BMC Evolutionary Biology (March 2018, January 2019)

Behavioral Ecology (January 2018)

Herpetological Review (August 2017)

Professional Society Membership

Society for Integrative and Comparative Biology (SICB)

Society for the Study of Amphibians and Reptiles (SSAR)

Herpetologists' League (HL)

American Society for Ichthyologists and Herpetologists (ASIH)