

JESSICA L. TINGLE

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EDUCATION

University of California, Riverside

- PhD Candidate in Evolution, Ecology, and Organismal Biology
- Expected graduation: December 2020
- Advisor: Theodore Garland, Jr.

Cornell University

- B.S. May 2012 in Biological Sciences, Cum Laude and Distinction in Research
- Minor: Latin American Studies

The School for International Training

- Madagascar: Biodiversity and Natural Resource Management (August – December 2010)
- Brazil: Amazon Resource Management and Human Ecology (March – June 2011)

PEER-REVIEWED PUBLICATIONS

Tingle, J.L. *In press*. Facultatively sidewinding snakes and the origins of locomotor specialization. *Integrative and Comparative Biology*.

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. 2012. Field observations on the behavioral ecology of the Madagascan leaf-nosed snake, *Langaha madagascariensis*. *Herpetological Conservation and Biology* 7:442-448.

INVITED ARTICLE

Tingle, J.L. 2013. Developing an undergraduate herpetology club at Cornell University. *Herpetological Review* 44(2):185-187.

FELLOWSHIPS

Dissertation Year Fellowship, UC Riverside

- \$7,200, June – September 2019

Graduate Research Fellowship, National Science Foundation

- \$138,000, September 2015 – June 2020

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 Department of Evolution, Ecology, and Organismal Biology
- \$1,000, April 2019

Graduate Dean's Dissertation Research Grant

- UC Riverside Graduate Division
- \$800, January 2019

E.E. Williams Research Grant

- Herpetologists' League
- \$1,000, April 2018

Vaughan H. Shoemaker Graduate Fellowship

- UC Riverside Department of Evolution, Ecology, and Organismal Biology
- \$750, June 2017

Fellowship for Graduate Student Travel

- Society for Integrative and Comparative Biology
- \$1,400, January 2017

HONORS AND AWARDS

James and Margaret Lesley Annual Prize

- \$675 prize, January 2020

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

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 Finals

- \$1,000 prize, March 2019
- Competition where more than 50 UCR 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 research in UC Riverside's College of Natural and Agricultural Sciences

First place, Science Slam

- \$500 prize, November 2018
- Competition where graduate students in UCR's College of Natural and Agricultural Sciences presented their research in five minutes or less 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

Invited symposium talk at the Society for Integrative and Comparative Biology annual meeting: *Prevalence of facultative sidewinding locomotion in non-specialist snake species.* (January 2020; Austin, Texas)

Poster presentation at the Joint Meeting of Ichthyologists and Herpetologists: *What determines vertebral count in snakes?* (July 2019; Snowbird, Utah)

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)

Poster presentation at the Joint Meeting of Ichthyologists and Herpetologists: *Behavioral ecology of the Madagascar leaf-nosed snake* (July 2011; Minneapolis, Minnesota)

TEACHING AND MENTORSHIP

TEACHING EXPERIENCE

Teaching Assistant for BIOL 005B: Introduction to Organismal Biology

- University of California, Riverside (Spring 2020)
- Undergraduate lab

Teaching Assistant for BIOL 161B: Functional Anatomy of the Vertebrates

- University of California, Riverside (Winter 2020)
- Undergraduate discussion sections

Teaching Assistant for BIOL 163: Evolutionary Ecology of the Terrestrial Vertebrates

- University of California, Riverside (Fall 2019)
- Undergraduate lab and field course

Teaching Assistant for BIOL 161A: Functional Anatomy of the Vertebrates

- University of California, Riverside (Fall 2017 and Fall 2018)
- Undergraduate discussion sections

Guest Seminar Leader for EEOB 210: Organismal Biology

- University of California, Riverside (Spring 2018)
- Graduate seminar

Guest Lecturer for BIOL 5B: Introduction to Organismal Biology

- University of California, Riverside (May 2017)
- Undergraduate lecture
- “Muscles and Movement Part 1: Animal Locomotion”

TRAINING/CERTIFICATIONS

University Teaching Certificate Program

- University of California, Riverside (January – June 2019)
- Highly selective, 2-quarter-long program 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 in the life sciences

Teaching Development Day

- University of California, Riverside (May 2017)
- One-day series of workshops covering various topics in pedagogy

ENTOM 3350: Naturalist Outreach Practicum

- Cornell University (January – May 2012)
- Upper-level undergraduate course on effective practices in educational outreach

OTHER ACTIVITIES RELATED TO TEACHING AND MENTORSHIP

Invited speaker, Physics Organization for Womxn and the Under-Represented (POWUR)

- UC Riverside Physics Department (March 2020)
- “Broadening participation in STEM by reducing stereotype threat”

Consultant, Graduate Writing Center

- University of California, Riverside (September 2019 – present)

Presenter, Graduate Writing Center Workshop

- University of California, Riverside (January 2020)
- “Writing concisely”

Mentor, SICB Broadening Participation Mentorship Program

- Society for Integrative and Comparative Biology (January 2020)

Mentor, JMIH Mentorship Program

- Joint Meeting of Ichthyologists and Herpetologists (July 2019)

Invited speaker, Graduate Student Diversity Certificate Program

- University of California, Riverside (May 2019)
- “Mitigating stereotype threat through growth mindsets”

Presenter, Teaching Development Day

- “Mitigating stereotype threat through growth mindsets”
- University of California, Riverside (May 2019)

Panelist, STEM TA Roundtable

- University of California, Riverside (April 2019)

Invited Panelist on Grant Writing for EEOB 265: “Lunch Bunch”

- University of California, Riverside; graduate course (April 2016)

PROFESSIONAL LEADERSHIP AND SERVICE

Symposium organizer, “Diversity, Equity, and Inclusion in Ichthyology and Herpetology”

- Joint Meeting of Ichthyologists and Herpetologists (upcoming July 2020)
- Co-wrote a successful NSF grant proposal to secure additional funding
 - Senior personnel; as a graduate student, I was ineligible to be a co-PI

Chair, Student Participation Committee

- Society for the Study of Amphibians and Reptiles (July 2018 – present)

Website coordinator

- Society for the Study of Amphibians and Reptiles (July 2019 – present)

Long Range Planning Committee

- Society for the Study of Amphibians and Reptiles (March 2019 – present)

Panelist, student grant workshop

- Society for Integrative and Comparative Biology (January 6, 2018)

Peer reviewer

- Herpetological Review (August 2017); Behavioral Ecology (January 2018); BMC Evolutionary Biology (March 2018, January 2019)

PROFESSIONAL DEVELOPMENT

Evolutionary Quantitative Genetics Workshop

- Friday Harbor Labs (June 3–9, 2018)
- Organized by Stevan Arnold and Joe Felsenstein

Workshop: Natural History and Morphology – Engines of Inspiration

- Joint Meeting of Ichthyologists and Herpetologists (July 15, 2017)
- Organized by Stephanie Crofts and Adam Summers

Short course: Analysis of Diversification Rates from Phylogenies

- Oregon State University (June 22–23, 2017)
- Organized by Dan Rabosky and Brian Sidlauskas

EDUCATIONAL OUTREACH

LONG-TERM OUTREACH POSITIONS

Herpetology Hotline Responder

- September 2017 – August 2019
- Answered 155 questions via the Society for the Study of Amphibians and Reptiles online Herpetology Hotline, which is accessible to the general public.

Science Surprises Part-Time Educator, Ithaca Science Center

- 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.

Cornell Herpetological Society

- March 2009 – May 2012
- Conducted dozens of educational outreach events for undergraduates, elementary school students, and community members in and around Ithaca, NY

EDUCATIONAL OUTREACH EVENTS

STEAM storytime

- Riverside Public Library (February 27, 2020)
- Interested students in reptiles with a live Rosy Boa and the book *Joan Proctor, Dragon Doctor*, by Patricia Valdez.

UC Riverside Science Event

- On-campus at UC Riverside (June 2019)
- Hosted a booth to teach ~90 second-graders about snake biology

Science Fair Judging

- St. Catherine of Alexandria, Riverside, CA (January 2019)
- Riverside Unified School District, Riverside, CA (February 2019)

Society for Integrative and Comparative Biology outreach event: What is a scientist?

- Stewart Magnet Middle School, Tampa, FL (January 2019)
- Familiarized middle school students with general goals and specific activities of scientists, then led a miniature research project
- Two classes

Animal adaptations presentation

- Columbia Elementary School, Perris, CA (December 2016, March 2017, and May 2018)
- Taught students about animal adaptations using hand-on activities
- Eleven classes total on three visits

STEAM storytime

- Riverside Public Library (May 15, 2018)
- Read children a story about rattlesnakes in the desert, then taught them about snake biology using shed skins, a microscope, and a live snake at Riverside Public Library

Reptiles outreach at after-school science club

- REACH Leadership Academy, Riverside, CA (November 2016 and March 2018)
- Used live animals to instill knowledge of and appreciation for reptiles in elementary school students

Science Olympiad mentorship

- On-campus at UC Riverside (December 2017 – February 2018)
- Led workshops to prepare students for the high school Science Olympiad competition

Upward Bound Math and Science Program

- Vista Del Lago High School, Moreno Valley, CA (April 2017)
- Discussed academic opportunities and science careers with low-income high school students

UC Riverside Science Day

- On-campus at UC Riverside (February 2017)
- Led activities for ~200 fourth grade students to learn about animal diversity and adaptations

ONLINE EDUCATIONAL MATERIALS

A Crawling Shape Intrude

- Created and maintained blog on human-reptile interaction (2012 – 2014)
- <https://jleetingle.wordpress.com/>

Adventures of the Cornell Herpetological Society

- Created and maintained undergraduate herpetology club blog (2011 – 2012)
- <http://cuherps.blogspot.com/>

Reptiles: Diversity, Feeding, Defense

- Developed and presented educational video with a fellow student as part of the Cornell University Naturalist Outreach Program. (2012)
- <http://www.cornell.edu/video/naturalist-outreach-reptiles---diversity-feeding--defense>

Basic Biology of Reptiles & Amphibians

- Developed educational pamphlet with a fellow student as part of the Cornell University Naturalist Outreach Program (2012)
- <http://calscomm.cals.cornell.edu/naturalist/Naturalist-Outreach-Reptile-diversity-feeding-defense.pdf>