

JESSICA L. TINGLE
CURRICULUM VITAE
jessica.tingle@email.ucr.edu | jleetingle.com

EDUCATION

- PhD University of California, Riverside** *expected 6/2021*
- Evolution, Ecology, and Organismal Biology
 - Advisor: Theodore Garland, Jr.
 - Evolution and biomechanics of specialized locomotion in snakes
- B.S. Cornell University** 5/2012
- Major in Biological Sciences, minor in Latin American Studies
 - Cum Laude and Distinction in Research

PEER-REVIEWED PUBLICATIONS

- Tingle, J.L.** and T. Garland, Jr. *In press*. Morphological evolution in relation to sidewinding, arboreality, and precipitation in snakes of the family Viperidae. *Biological Journal of the Linnean Society*.
- Tingle, J.L.** 2020. Facultatively sidewinding snakes and the origins of locomotor specialization. *Integrative and Comparative Biology* 60(1):202-214. DOI: 10.1093/icb/icaa011.
- 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.

MANUSCRIPT IN REVIEW

- Rieser, J.M., Li, T-D., **Tingle, J.L.**, Goldman, D.I., and J.R. Mendelson III. *In review*. Functional consequences of convergently-evolved microscopic skin features on snake locomotion. *Proceedings of the National Academy of Sciences*.

INVITED ARTICLES

Tingle, J.L. 2020. Cultivating inclusive communities in taxon-focused societies. *Herpetological Review* 51(3):663-665.

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

FELLOWSHIPS

Dissertation Year Fellowship, \$7,200 University of California, Riverside	2019
Graduate Research Fellowship, \$138,000 National Science Foundation	2015–2020
Chancellor’s Distinguished Fellowship, \$25,000 University of California, Riverside	2015–2016
Fulbright Scholarship (Morocco), \$15,220 U.S. Department of State	2014
Critical Language Enhancement Award (Arabic), \$7,600 U.S. Department of State	2013–2014
Hughes Scholars Program, \$2,000 Howard Hughes Medical Institute	2010

RESEARCH GRANTS

Spieth Memorial Graduate Award in Biology, \$1,000 UC Riverside Department of Evolution, Ecology, and Organismal Biology	2019
Graduate Dean’s Dissertation Research Grant, \$800 UC Riverside Graduate Division	2019
E.E. Williams Research Grant, \$1,000 Herpetologists’ League	2018
Vaughan H. Shoemaker Graduate Fellowship, \$750 UC Riverside Department of Evolution, Ecology, and Organismal Biology	2017
Fellowship for Graduate Student Travel, \$1,400 Society for Integrative and Comparative Biology	2017

HONORS AND AWARDS

Outstanding Teaching Assistant Award	2019/2020
<ul style="list-style-type: none">• Annual award given by UC Riverside Graduate Division to recognize teaching assistants who have demonstrated exceptional teaching skills	2017/2018
James and Margaret Lesley Annual Prize, \$675	1/2020
<ul style="list-style-type: none">• Award for research in UCR's College of Natural and Agricultural Sciences	
First place, Grad Slam Finalists at UCR Palm Desert, \$500	4/2019
<ul style="list-style-type: none">• Competition where UCR Grad Slam finalists present their research in three minutes or less to an audience at UCR's Palm Desert campus	
Second runner up, Grad Slam Finals, \$1,000	3/2019
<ul style="list-style-type: none">• Competition where > 50 UCR grad students in all disciplines present their research in three minutes or less to judges from outside their field	
James Merrill and Adeline Wallace Annual Prize, \$2,000	2/2019
<ul style="list-style-type: none">• Award for research in UCR's College of Natural and Agricultural Sciences	
First place, Science Slam, \$500	11/2018
<ul style="list-style-type: none">• Competition where graduate students in UCR's College of Natural and Agricultural Sciences present their research in five minutes or less	
First runner up, Herpetologists' League Graduate Research Award, \$250	7/2018
<ul style="list-style-type: none">• Award for student research presentations at the annual Joint Meeting of Ichthyologists and Herpetologists	
First place (tie), GradFest Student Presentation Competition, \$50	3/2018
<ul style="list-style-type: none">• Student presentation competition at UCR's Department of Evolution, Ecology, and Organismal Biology graduate student recruitment weekend	
First place, Southwest Herp Fest Student Competition, \$75	2/2017
<ul style="list-style-type: none">• Student presentation competition at a regional herpetology conference	

SELECTED 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)

TEACHING AND MENTORSHIP

TEACHING EXPERIENCE

- Facilitator for the GradEdge/JumpStart NSF GRFP Workshop Series** summer 2020
University of California, Riverside; Graduate Writing Center
- Non-credit eight-week fellowship writing program for incoming graduate students; two sections per week

TA for BIOL 005B: Introduction to Organismal Biology University of California, Riverside	spring 2020
<ul style="list-style-type: none"> ● Two labs per week, online due to COVID-19 	
TA for BIOL 161A & 161B: Functional Anatomy of the Vertebrates University of California, Riverside	winter 2020 fall 2018 fall 2017
<ul style="list-style-type: none"> ● Four discussion sections per week 	
TA for BIOL 163: Evolutionary Ecology of the Terrestrial Vertebrates University of California, Riverside	fall 2019
<ul style="list-style-type: none"> ● One lab section and one field trip per week, including two overnight field trips 	
Guest Seminar Facilitator for EEOB 210: Organismal Biology University of California, Riverside	spring 2018
<ul style="list-style-type: none"> ● Graduate seminar; facilitated two separate discussions 	
Guest Lecturer for BIOL 005B: Introduction to Organismal Biology University of California, Riverside	spring 2017
<ul style="list-style-type: none"> ● Lecture: "Muscles and Movement Part 1: Animal Locomotion" 	

TRAINING/CERTIFICATIONS

Certified Master Tutor, Level III College Reading & Learning Association International Tutor Training Program	2020
University Teaching Certificate Program University of California, Riverside	1–6/2019
<ul style="list-style-type: none"> ● Highly selective, intensive program where participants learn student-centered techniques, design active learning exercises, and deliver presentations on evidence-based practices in pedagogy 	
Graduate Student Diversity Certificate Program University of California, Riverside	3–6/2018
<ul style="list-style-type: none"> ● Weekly three-hour workshop where participants learn and implement practices to promote equity and inclusiveness in the classroom and at the institutional level 	
BIOL 301: Teaching Biology at the College Level University of California, Riverside	9–12/2017
<ul style="list-style-type: none"> ● Graduate level course to increase TA effectiveness in life sciences 	
Teaching Development Day University of California, Riverside	5/2017
<ul style="list-style-type: none"> ● One-day series of workshops exploring various topics in pedagogy 	

ENTOM 3350: Naturalist Outreach Practicum 1–5/2012
 Cornell University
 • Upper-level undergraduate course on effective practices in informal science education, requiring at minimum seven K-12 classroom visits

MENTORSHIP AND SUPPORT ROLES

STEM Coordinator, Graduate Student Mentorship Program 8/2020–
 University of California, Riverside present
 • Designs mentorship programming to enhance first year graduate student retention and success efforts across departments

Mentor, EEB Mentor Match 10/2020–
 Administered by Samniqueka Halsey and Terry McGlynn present
 • Participated in a program designed to help students in minoritized groups gain admission to and fellowships for graduate school

Mentor for undergraduate and high school research assistants 1/2017–
 University of California, Riverside present
 • Mentored several undergraduate and high school students in biomechanics research; helped some mentees apply to fellowships (e.g. the NSF GRFP) and college or graduate programs

Consultant, Graduate Writing Center 9/2019–
 University of California, Riverside 9/2020

Presenter, Graduate Writing Center Workshop: “Applying for Fellowships” 5/2020
 University of California, Riverside

Invited speaker, Physics Organization for Womxn and the Under-Represented 3/2020
 UC Riverside Physics Department
 • Talk: “Broadening participation in STEM by reducing stereotype threat”

Presenter, Graduate Writing Center Workshop: “Writing Concisely” 1/2020
 University of California, Riverside

Mentor, SICB Broadening Participation Mentorship Program 1/2020
 Society for Integrative and Comparative Biology annual meeting
 • Mentored an undergraduate before, during, and after the conference

Mentor, JMIH Mentorship Program 7/2019
 Joint Meeting of Ichthyologists and Herpetologists
 • Helped expand the mentorship program to triple its previous size
 • Mentored a master’s student; maintained mentorship relationship after the conference to help navigate the PhD application process

Invited speaker, Graduate Student Diversity Certificate Program University of California, Riverside	5/2019
<ul style="list-style-type: none"> ● Talk: “Mitigating stereotype threat through growth mindsets” 	
Presenter, Teaching Development Day University of California, Riverside	5/2019
<ul style="list-style-type: none"> ● Talk: “Mitigating stereotype threat through growth mindsets” 	
Panelist, STEM TA Roundtable University of California, Riverside	4/2019
Panelist, Grant Writing Workshop for EEOB 265: “Lunch Bunch” University of California, Riverside	4/2016
Science Surprises Part-Time Educator Ithaca Science Center	2–6/2013
<ul style="list-style-type: none"> ● Provided an after-school enrichment program to elementary-aged children by preparing and delivering inquiry-based science activities at local schools 	

PROFESSIONAL LEADERSHIP AND SERVICE

Co-Chair, Diversity, Equity, and Inclusion Committee Society for the Study of Amphibians and Reptiles	6/2020–present
Symposium organizer: “Diversity, Equity, and Inclusion in Ichthyology and Herpetology” Joint Meeting of Ichthyologists and Herpetologists	7/2021 (postponed from 2020 due to COVID-19)
<ul style="list-style-type: none"> ● Co-wrote a funded NSF proposal (award #2016872) to secure additional support 	
Website Coordinator Society for the Study of Amphibians and Reptiles	7/2019–present
Member, Long-Range Planning Committee Society for the Study of Amphibians and Reptiles	3/2019–present
Chair, Student Participation Committee Society for the Study of Amphibians and Reptiles	7/2018–present
Graduate student representative, faculty hiring committee University of California, Riverside	7/2017–2/2018
Peer Reviewer	
<ul style="list-style-type: none"> ● Behavioral Ecology ● Bioinspiration & Biomimetics ● BMC Evolutionary Biology ● Herpetological Review 	

PROFESSIONAL DEVELOPMENT

- Evolutionary Quantitative Genetics Workshop** June 3–9, 2018
Friday Harbor Labs
- Organized by Stevan Arnold and Joe Felsenstein
- Workshop: Natural History and Morphology – Engines of Inspiration** July 15, 2017
Joint Meeting of Ichthyologists and Herpetologists
- Organized by Stephanie Crofts and Adam Summers
- Short course: Analysis of Diversification Rates from Phylogenies** June 22–23, 2017
Oregon State University
- Organized by Dan Rabosky and Brian Sidlauskas

EDUCATIONAL OUTREACH

- STEAM Storytime at the Riverside Public Library** 2/2020
5/2018
- Taught pre-K through elementary school students about reptiles with a story, live animals, and hands-on activities
- UC Riverside science event** 6/2019
- Hosted a booth to teach ~90 second-graders about snake biology
- Science fair judging** 2/2019
Riverside Unified School District and St. Catherine of Alexandria, Riverside, CA 1/2019
- Scored science fair posters and project reports. Provided detailed feedback regarding ways students could improve experimental design and analysis
- Society for Integrative and Comparative Biology outreach event: What is a scientist?** 1/2019
Stewart Magnet Middle School, Tampa, FL
- Familiarized students in two classes with general goals and specific activities of scientists, then led a miniature research project
- Herpetology Hotline Responder** 9/2017–
8/2019
- Answered 155 questions via the Society for the Study of Amphibians and Reptiles online hotline, which is accessible to the general public
- Animal adaptations presentation** 5/2018
Columbia Elementary School, Perris, CA 3/2017
- Taught elementary school students (eleven classes total on three visits) about animal adaptations using hand-on activities 12/2016
- Reptiles outreach at after-school science club** 3/2018
REACH Leadership Academy, Riverside, CA 11/2016

- Used live animals to instill knowledge of and appreciation for reptiles in elementary school students
- Science Olympiad mentorship** 12/2017–
2/2018
- On-campus at the University of California, Riverside
- Led workshops to prepare high school students for the Science Olympiad competition
- Upward Bound Math and Science Program** 4/2017
- Vista del Lago High School, Moreno Valley, CA
- Discussed academic opportunities and science careers with low-income high school students
- UC Riverside Science Day** 2/2017
- Led activities for ~200 fourth-grade students to learn about animal diversity and adaptation
- Video: “Reptiles: Diversity, Feeding, Defense”** 2012
- Developed and presented educational video with a fellow student as part of the Cornell University Naturalist Outreach Program
 - <http://www.cornell.edu/video/naturalist-outreach-reptiles---diversity-feeding--defense>
- Educational pamphlet: “Basic Biology of Reptiles & Amphibians”** 2012
- Developed educational pamphlet with a fellow student as part of the Cornell University Naturalist Outreach Program
 - <http://calscomm.cals.cornell.edu/naturalist/Naturalist-Outreach-Reptile-diversity-feeding-defense.pdf>
- Cornell Herpetological Society** 3/2009–
5/2012
- Conducted dozens of educational outreach events for undergraduates, elementary school students, and community members in and around Ithaca, NY

PROFESSIONAL SOCIETY MEMBERSHIP

Society for Integrative and Comparative Biology (SICB)
 Society for the Study of Amphibians and Reptiles (SSAR)
 American Society for Ichthyologists and Herpetologists (ASIH)