

JESSICA L. TINGLE  
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## EDUCATION

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- PhD University of California, Riverside** exp. 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

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## PEER-REVIEWED PUBLICATIONS

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- 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.

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## INVITED ARTICLES

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- Tingle, J.L.** *In press.* Cultivating inclusive communities in taxon-focused societies. *Herpetological Review*.
- Tingle, J.L.** 2013. Developing an undergraduate herpetology club at Cornell University. *Herpetological Review* 44(2):185-187.

## FELLOWSHIPS

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

## RESEARCH GRANTS

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

## HONORS AND AWARDS

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<b>Outstanding Teaching Assistant Award</b>	2019/2020
<ul style="list-style-type: none"><li>Annual award given by UC Riverside Graduate Division to recognize teaching assistants who have demonstrated exceptional teaching skills</li></ul>	2017/2018
<b>James and Margaret Lesley Annual Prize</b> , \$675	1/2020
<ul style="list-style-type: none"><li>Award for research in UCR’s College of Natural and Agricultural Sciences</li></ul>	

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

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### SELECTED LECTURES AND PRESENTATIONS

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- 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)

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

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## TEACHING AND MENTORSHIP

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### 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** spring 2020  
University of California, Riverside

- Two labs per week, online due to COVID-19

<b>TA for BIOL 161A &amp; 161B: Functional Anatomy of the Vertebrates</b>	winter 2020
University of California, Riverside	fall 2018
<ul style="list-style-type: none"> <li>• Four discussion sections per week</li> </ul>	fall 2017
<b>TA for BIOL 163: Evolutionary Ecology of the Terrestrial Vertebrates</b>	fall 2019
University of California, Riverside	
<ul style="list-style-type: none"> <li>• One lab section and one field trip per week, including two overnight field trips</li> </ul>	
<b>Guest Seminar Facilitator for EEOB 210: Organismal Biology</b>	spring 2018
University of California, Riverside	
<ul style="list-style-type: none"> <li>• Graduate seminar; facilitated two separate discussions</li> </ul>	
<b>Guest Lecturer for BIOL 005B: Introduction to Organismal Biology</b>	spring 2017
University of California, Riverside	
<ul style="list-style-type: none"> <li>• Lecture: "Muscles and Movement Part 1: Animal Locomotion"</li> </ul>	
<i>TRAINING/CERTIFICATIONS</i>	
<b>Certified Master Tutor, Level III</b>	2020
College Reading & Learning Association International Tutor Training Program	
<b>University Teaching Certificate Program</b>	1–6/2019
University of California, Riverside	
<ul style="list-style-type: none"> <li>• Highly selective, intensive program where participants learn student-centered techniques, design active learning exercises, and deliver presentations on evidence-based practices in pedagogy</li> </ul>	
<b>Graduate Student Diversity Certificate Program</b>	3–6/2018
University of California, Riverside	
<ul style="list-style-type: none"> <li>• Weekly three-hour workshop where participants learn and implement practices to promote equity and inclusiveness in the classroom and at the institutional level</li> </ul>	
<b>BIOL 301: Teaching Biology at the College Level</b>	9–12/2017
University of California, Riverside	
<ul style="list-style-type: none"> <li>• Graduate level course to increase TA effectiveness in life sciences</li> </ul>	
<b>Teaching Development Day</b>	5/2017
University of California, Riverside	
<ul style="list-style-type: none"> <li>• One-day series of workshops exploring various topics in pedagogy</li> </ul>	
<b>ENTOM 3350: Naturalist Outreach Practicum</b>	1–5/2012
Cornell University	
<ul style="list-style-type: none"> <li>• Upper-level undergraduate course on effective practices in informal science education, requiring at minimum seven K-12 classroom visits</li> </ul>	

*MENTORSHIP AND SUPPORT ROLES*

<b>Mentor for undergraduate and high school research assistants</b> University of California, Riverside <ul style="list-style-type: none"><li>● 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</li></ul>	1/2017– present
<b>Consultant, Graduate Writing Center</b> University of California, Riverside	9/2019– present
<b>Presenter, Graduate Writing Center Workshop: “Applying for Fellowships”</b> University of California, Riverside	5/2020
<b>Invited speaker, Physics Organization for Womxn and the Under-Represented</b> UC Riverside Physics Department <ul style="list-style-type: none"><li>● Talk: “Broadening participation in STEM by reducing stereotype threat”</li></ul>	3/2020
<b>Presenter, Graduate Writing Center Workshop: “Writing Concisely”</b> University of California, Riverside	1/2020
<b>Mentor, SICB Broadening Participation Mentorship Program</b> Society for Integrative and Comparative Biology annual meeting <ul style="list-style-type: none"><li>● Mentored an undergraduate before, during, and after the conference</li></ul>	1/2020
<b>Mentor, JMIH Mentorship Program</b> Joint Meeting of Ichthyologists and Herpetologists <ul style="list-style-type: none"><li>● Helped expand the mentorship program to triple its previous size</li><li>● Mentored a master’s student; maintained mentorship relationship after the conference to help navigate the PhD application process</li></ul>	7/2019
<b>Invited speaker, Graduate Student Diversity Certificate Program</b> University of California, Riverside <ul style="list-style-type: none"><li>● Talk: “Mitigating stereotype threat through growth mindsets”</li></ul>	5/2019
<b>Presenter, Teaching Development Day</b> University of California, Riverside <ul style="list-style-type: none"><li>● Talk: “Mitigating stereotype threat through growth mindsets”</li></ul>	5/2019
<b>Panelist, STEM TA Roundtable</b> University of California, Riverside	4/2019
<b>Science Surprises Part-Time Educator, Ithaca Science Center</b> <ul style="list-style-type: none"><li>● Provided an after-school enrichment program to elementary-aged children by preparing and delivering inquiry-based science activities at local schools</li></ul>	2–6/2013

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## PROFESSIONAL LEADERSHIP AND SERVICE

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- Co-Chair, Diversity, Equity, and Inclusion Committee** 6/2020–present  
Society for the Study of Amphibians and Reptiles
- Symposium organizer:** 7/2021  
“**Diversity, Equity, and Inclusion in Ichthyology and Herpetology**” (postponed from 2020  
Joint Meeting of Ichthyologists and Herpetologists due to COVID-19)
- Co-wrote a funded NSF proposal (award #2016872) to secure additional support
- Member, Long-Range Planning Committee** 3/2019–present  
Society for the Study of Amphibians and Reptiles
- Chair, Student Participation Committee** 7/2018–present  
Society for the Study of Amphibians and Reptiles
- Graduate student representative, faculty hiring committee** 7/2017–2/2018  
University of California, Riverside
- Peer Reviewer**
- Behavioral Ecology
  - Bioinspiration & Biomimetics
  - BMC Evolutionary Biology
  - Herpetological Review

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## PROFESSIONAL DEVELOPMENT

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- 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

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## EDUCATIONAL OUTREACH

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- STEAM Storytime at the Riverside Public Library** 2/2020
- Taught pre-K through elementary school students about reptiles with a story, live animals, and hands-on activities 5/2018

<b>UC Riverside science event</b>	6/2019
<ul style="list-style-type: none"> <li>Hosted a booth to teach ~90 second-graders about snake biology</li> </ul>	
<b>Science fair judging</b>	2/2019
Riverside Unified School District and St. Catherine of Alexandria, Riverside, CA	1/2019
<ul style="list-style-type: none"> <li>Provided detailed feedback on science fair posters and project reports</li> </ul>	
<b>Society for Integrative and Comparative Biology outreach event: What is a scientist?</b>	1/2019
Stewart Magnet Middle School, Tampa, FL	
<ul style="list-style-type: none"> <li>Familiarized students in two classes with general goals and specific activities of scientists, then led a miniature research project</li> </ul>	
<b>Herpetology Hotline Responder</b>	9/2017– 8/2019
<ul style="list-style-type: none"> <li>Answered 155 questions via the Society for the Study of Amphibians and Reptiles online hotline, which is accessible to the general public</li> </ul>	
<b>Animal adaptations presentation</b>	5/2018
Columbia Elementary School, Perris, CA	3/2017
<ul style="list-style-type: none"> <li>Taught elementary school students (eleven classes total on three visits) about animal adaptations using hand-on activities</li> </ul>	12/2016
<b>Reptiles outreach at after-school science club</b>	3/2018
REACH Leadership Academy, Riverside, CA	11/2016
<ul style="list-style-type: none"> <li>Used live animals to instill knowledge of and appreciation for reptiles in elementary school students</li> </ul>	
<b>Science Olympiad mentorship</b>	12/2017– 2/2018
On-campus at the University of California, Riverside	
<ul style="list-style-type: none"> <li>Led workshops to prepare high school students for the Science Olympiad competition</li> </ul>	
<b>Upward Bound Math and Science Program</b>	4/2017
Vista del Lago High School, Moreno Valley, CA	
<ul style="list-style-type: none"> <li>Discussed academic opportunities and science careers with low-income high school students</li> </ul>	
<b>UC Riverside Science Day</b>	2/2017
<ul style="list-style-type: none"> <li>Led activities for ~200 fourth-grade students to learn about animal diversity and adaptation</li> </ul>	
<b>Video: “Reptiles: Diversity, Feeding, Defense”</b>	2012
<ul style="list-style-type: none"> <li>Developed and presented educational video with a fellow student as part of the Cornell University Naturalist Outreach Program</li> <li><a href="http://www.cornell.edu/video/naturalist-outreach-reptiles---diversity-feeding--defense">http://www.cornell.edu/video/naturalist-outreach-reptiles---diversity-feeding--defense</a></li> </ul>	



- 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

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### PROFESSIONAL SOCIETY MEMBERSHIP

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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)