

# Angela Chuang • PhD candidate

Dept. Ecology and Evolutionary Biology  
569 Dabney Hall  
University of Tennessee  
Knoxville, TN 37996-1610

Email: [angelachuang@utk.edu](mailto:angelachuang@utk.edu)  
Website: [angelachuang.com](http://angelachuang.com)

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## EDUCATION

- August 2013 – Present **University of Tennessee, Knoxville**  
**PhD Candidate**, Ecology & Evolutionary Biology, Concentration: Behavior
- August 2008 – May 2012 **University of California, Berkeley**  
**B.Sc.**, Molecular Environmental Biology, Concentration: Entomology  
Minor, Forestry and Natural Resources

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## PEER-REVIEWED PUBLICATIONS

7. *Submitted*. Frank, D., Simberloff, D., Bush, J., **Chuang, A.** & Leppanen, C. Logical Fallacies and Reasonable Debates in Invasion Biology: A Response to Guiaşu and Tindale, *Biology and Philosophy*.
6. *In Review*. **Chuang, A.** & Leppanen, C. Location and web substrate records of *Cyrtophora citricola* (Araneae: Araneidae) in southern Spain, including Tenerife, *Revista Ibérica de Aracnología*.
5. Bosco, J. & **Chuang, A.** (2018). A new species of grass spider, *Agelenopsis riechertii*, from the Southwestern USA, with notes on its courtship behavior (Araneae: Agelenidae), *Zootaxa*, 4442(4): 579–583.
4. Zhao, L., Panayotova, I.N., **Chuang, A.**, Bourouiba, L., Sheldon, K., & Miller, L.A. (2017). Flying spiders: simulating and modeling the dynamics of ballooning, *Women in Mathematical Biology*, 179–210.
3. Sheldon, K.S., Zhao, L., **Chuang, A.**, Panayotova, I., Bourouiba, L., & Miller, L.A. (2017). Revisiting the physics of spider ballooning, *Women in Mathematical Biology*, 163–178.
2. **Chuang, A.** & Peterson, C. R. (2016). Expanding population edges: theories, traits, and trade-offs, *Global Change Biology*, 22: 494–512.
1. Blamires, S. J., Piorkowski, D., **Chuang, A.**, Tseng, Y. H., Toft, S., & Tso, I. M. (2015). Can differential nutrient extraction explain property variations in a predatory trap? *Royal Society Open Science*, 2(3): 140479.

## PUBLISHED REVIEWS († invited review)

3. *Submitted*. **Chuang, A.** Playing with particle physics, *Science*. †
2. **Chuang, A.** & J. M. Bush. (2017). Book Review: Judith S. Weis and Daniel Sol (eds): Biological Invasions and Animal Behaviour, *Biological Invasions*. 6(19): 1951-1952. †
1. **Chuang, A.** (2017). Game changers, *Science*. 355(6325): 587-587.

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## PROFESSIONAL EXPERIENCE

- 2013 **Research Assistant**, I-Min Tso Lab, Tunghai University, *Taiwan*
- 2013 **Field Assistant**, Caribbean Arachnids Expedition 2013, *Lesser Antilles, Caribbean*
- 2012 **Field Assistant**, Steven Beissinger Lab, Hato Masaguaral Research Station, *Venezuela*
- 2012 **Field Assistant**, Caribbean Arachnids Expedition 2012, *Dominican Republic*
- 2012 **Preparation Laboratory Assistant**, Museum of Vertebrate Zoology, *UC Berkeley*

- 2011 **Student Researcher**, UC Berkeley Field Station, *Mo'orea, French Polynesia*  
2011 **Research Assistant**, Robert Dudley Lab, *UC Berkeley*  
2010 **Research Assistant**, Miguel Altieri Agroecology Lab, *UC Berkeley*
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## TEACHING

The University of Tennessee, Knoxville: \*Graduate Teaching Assistant, †Primary Instructor, ‡Guest Lecturer

- 2018 **EEB 406/MATH 405**- Models in Biology; 18 students in lecture \*  
**BIOL 150**- Skills of Biological Literacy; 3 discussion sections, 76 students \*  
2017 **BIOL 167**- Honors: Skills of Biological Investigation; 2 laboratory sections, 33 students †  
2016 **BIOL 167**- "Crash Course in Statistics", Honors: Skills of Biological Investigation; 2  
laboratory sections, 35 students ‡  
2015 **BIOL 159**- Skills of Biological Investigation; 2 laboratory sections, 48 students \*  
2014 **BIOL 167**- Honors: Skills of Biological Investigation; 2 laboratory sections, 26 students \*

## PEDAGOGY

- 2018 **EEB 607**- Science Education Journal Club participant, 2 semesters  
2016 **Practitioners Level Certification**- Best Practices in Teaching Course, Center for  
Integration of Research, Teaching, and Learning (CIRTL)  
2016 **Associates Level Certification**- Facilitating Undergraduate Evidence-Based Learning in  
STEM Courses, CIRTL
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## FUNDING (\$147,688 in total)

### RESEARCH GRANTS AND SCHOLARSHIPS (\$24,922, *internal grants italicized*)

- 2018 Arachnological Research Fund, American Arachnological Society, **\$1000**  
2017 David F. Ludwig Memorial Student Travel Scholarship, Association for Environmental  
Health and Sciences Foundation, **\$1000**  
2017 *Dept. EEB Research Grant, University of TN, \$1800*  
2016 *Dept. EEB Research Grant, University of TN, \$1050*  
2016 Arachnological Research Fund, American Arachnological Society, **\$300**  
2016 Love of Learning Grant, Phi Kappa Phi, **\$500**  
2016 *W.K. McClure Scholarship Fund for the Study of World Affairs, University of TN, \$3000*  
2016 The Explorers Club Exploration Fund- Mamont Scholars Program, **\$2000**  
2015 *Dept. EEB Research Grant, University of TN, \$1072*  
2015 Young Explorers Grant, National Geographic Society, **\$5000**  
2015 The Lewis and Clark Fund for Exploration and Field Research, American Philosophical  
Society, **\$5000**  
2014 Grants-In-Aid of Research, Sigma Xi, **\$700**  
2014 *Dept. EEB Research Grant, University of TN, \$1072*  
2013 *Dept. EEB Research Grant, University of TN, \$428*  
2011 *Institute of International Studies Undergraduate Merit Scholarship, UC Berkeley, \$1000*

### FELLOWSHIPS, AWARDS, AND HONORS (\$122,766)

- 2018 Diversity Travel Award, Animal Behavior Society, **\$125**  
2018 Tom Hallam Award for outstanding contributions to the grad experience, Dept. Ecology  
and Evolutionary Biology, University of TN, **\$500**  
2018 Travel Award, Graduate Student Senate, University of TN, **\$700**  
2017 Tom Hallam Award for outstanding contributions to the grad experience, Dept. Ecology  
and Evolutionary Biology, University of TN, **\$500**  
2017 Travel Award, Graduate Student Senate, University of TN, **\$480**

- 2017 Diversity Travel Award, Animal Behavior Society, **\$125**
  - 2017 Travel Award, Graduate Researchers in Ecology, Behavior, and Evolution, **\$150**
  - 2017 Graduate Student Senate Award for Excellence in Research, University of TN
  - 2016 Chancellor's Funds and Stipend Top-off Awards, University of TN, **\$4375**
  - 2016 Travel Award, Graduate Student Senate, University of TN, **\$710**
  - 2016 Travel Award, Graduate Researchers in Ecology, Behavior, and Evolution, **\$130**
  - 2016 Travel Award, American Arachnological Society, **\$537**
  - 2015 Tom Hallam Award for outstanding contributions to the grad experience, Dept. Ecology and Evolutionary Biology, University of TN
  - 2015 Chancellor's Funds and Stipend Top-off Awards, University of TN, **\$3728**
  - 2014 Chancellor's Funds and Stipend Top-off Awards, University of TN, **\$3978**
  - 2013 Chancellor's Funds and Stipend Top-off Awards, University of TN, **\$3728**
  - 2013 National Science Foundation Graduate Research Fellowship, **\$102,000 total**
  - 2012 Best Paper Award, Institute of International Studies, UC Berkeley, **\$1000**
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## PRESENTATIONS

- 2018 **Chuang, A.** & S. E. Riechert. Does an invasive orbweaver spider exhibit behavioral spatial sorting across its introduced range? South Eastern Population Ecology & Evolutionary Genetics Meeting, Pembroke, VA, USA. Oral.
  - 2018 **Chuang, A.** & S. E. Riechert. How are personality types of a globally invasive spider structured in its invasive vs. native range? Ecological Society of America Meeting, New Orleans, LA, USA. Poster.
  - 2017 **Chuang, A.** Defensive strategies of a forest cellar spider through ontogeny and reproductive state. Animal Behavior Society Meeting, Toronto, Ontario, Canada. Oral.
  - 2016 **Chuang, A.** & S. E. Riechert. Behavior-driven range expansion in the colonial tentweb orbweaver, *Cyrtophora citricola*? International Congress of Arachnology, Golden, CO, USA. Poster.
  - 2012 **Chuang, A.** Size and motherhood of a French Polynesian spider affects whirling and defensive behaviors. Institute of International Studies Symposium, Berkeley, CA, USA. Oral.
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## PROFESSIONAL ACTIVITIES AND MEMBERSHIP

### WORKSHOP PARTICIPANT

- 2015 Women in Mathematical Biology: Aerodynamics of spider ballooning, National Institute of Mathematical and Biological Synthesis, Knoxville, TN

### UNDERGRADUATE MENTORSHIP

- 2018 Organizer, Medical School Undergraduate Q&A Event, EEB Mentoring Program
- 2017- Savannah Sumatra, William Kirkpatrick: EEB Mentoring Program
- 2015 Ashish Gauli, Nathan Wikle, Ryan Yan: "Ships, Ports, Invasions, and Math: Invasive Species Movements through Global Shipping Routes", Summer Research Experience project at the National Institute of Mathematical and Biological Synthesis, Knoxville, TN

### CONTRIBUTOR

- 2016- Studio Tomás Saraceno: *Hybrid Webs* art installations and sculptures, Berlin, Germany

### JOURNAL REVIEWER

- Biological Invasions* (3), *Behavioral Ecology and Sociobiology* (2), *Behavioral Ecology* (1), *Southeastern Naturalist* (1)

## **SOCIETY MEMBERSHIP**

American Arachnological Society; Animal Behavior Society, Citizen Science Association;  
Ecological Society of America; International Society of Arachnology

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## **LEADERSHIP AND SERVICE**

2017 – 2018 **Panelist**, “So You Want To Go To Grad School- Graduate School Demystified”,  
Dept. EEB undergraduate workshop, UT Knoxville, TN  
2018 **Organizer**, “Medical School Q&A for pre-med undergraduates”, Dept. EEB, UT  
2017 – 2018 **Graduate Student Representative**, EEB Faculty Graduate Affairs Committee  
2016 – 2017, **President**, Graduate Researchers in Ecology, Behavior, and Evolution (GREBE),  
Spring 2016 University of Tennessee  
2016 – 2017 **Graduate Student Representative**, EEB Faculty Executive Committee  
Fall 2015 **Vice President**, GREBE, University of Tennessee  
2015 – 2016 University of Tennessee Graduate Student Senate Travel Awards Committee  
2015 – 2016 **Senator**, University of Tennessee Graduate Student Senate  
2014 – 2015 **Organizer**, Dept. EEB Friday Seminar Committee, University of Tennessee

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## **COMMUNITY ENGAGEMENT AND SERVICE**

2018 **Volunteer Leader**, West High School IB Biology Course, Knoxville, TN  
2018 **Volunteer**, Tennessee State Science Olympiad, Knoxville, TN  
2017 **Volunteer**, EEB Outreach Committee, Vestal Boys and Girls Club, Knoxville, TN  
2016 – 2017 **Volunteer Instructor**, Kids University: Vertebrate Zoology, UT Knoxville, TN  
2015 **Volunteer**, THRIVE program for underprivileged students, Knoxville, TN  
2015 **Volunteer Instructor**, Kids University: Animal Behavior, UT Knoxville, TN  
2015 **Volunteer**, Pond Gap Elementary School, Knoxville, TN  
2014 – 2016 **Volunteer**, UTK Darwin Week, UT Knoxville, TN  
2014 **Volunteer Instructor**, Kids University: BUGS, UT Knoxville, TN  
2014 **Volunteer**, U.S. Science and Engineering Fair, Washington D.C.  
2013 – 2016 **EEB Undergraduate Mentor**, UT EEB Department, Knoxville, TN  
2013 – 2015 **Volunteer**, Bat Exhibit, Boo at the Zoo, Knoxville Zoological Gardens, TN  
2013 **Leader**, Spider Outreach Camp, Caribbean Expedition, Dominican Republic  
2009 – 2011 **Volunteer**, Hands on Science, Le Conte Elementary School, Berkeley, CA

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