

Angela Chuang • PhD candidate

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EDUCATION

University of Tennessee, Knoxville

PhD Candidate, 2013 – current

Concentration: Behavior, Dept: Ecology & Evolutionary Biology

Advisor: Dr. Susan Riechert

University of California, Berkeley

Bachelor of Science, 2008 – 2012

Concentration: Entomology, Major: Molecular Environmental Biology, Dept: Environmental Science, Policy, & Management

Minor: Forestry and Natural Resources

PEER-REVIEWED PUBLICATIONS

(62 total citations, ‡ In Review, • In Prep)

- **Chuang, A.** & Riechert, S. E. Processes underlying behavioral differences between the expanding range edges and core in a non-native spider, *Cyrtophora citricola*
- **Chuang, A.** & Riechert, S. E. Does a non-native orbweaver spider show consistent or divergent patterns of behavior across its colonization history?
 - ‡ 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. **Chuang, A.** & Leppanen, C. (2018). Location and web substrate records of *Cyrtophora citricola* (Araneae: Araneidae) in southern Spain, including Tenerife, *Revista Ibérica de Aracnología*, 33: 89–100.
- 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.

REVIEWS & OTHER PUBLICATIONS († Invited review, ° In Press, ♦ In Revision)

- ♦ **Chuang, A.** & O. Schwery. Who cares? Parenting in invertebrate animals, *Frontiers for Young Minds*.
- ° **Chuang, A.** Fowl play, *Science*.
- 3. † **Chuang, A.** (2018). Playing with particle physics, *Science*. 362(6418): 1005–1005.
- 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.

FUNDING & AWARDS (\$155,038 in total)

RESEARCH FUNDING (\$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 (\$130,116, *internal awards italicized*)

- 2019 *Access and Diversity Fellowship, College of Arts and Sciences, University of TN, \$1000*
- 2019 *Stipend support, Dept. Ecology and Evolutionary Biology (EEB), University of TN, \$6350*
- 2018 Diversity Travel Award, Animal Behavior Society, **\$125**
- 2018 *Tom Hallam Award for outstanding contributions to the grad experience, EEB, 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, EEB, 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 *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, EEB, University of TN*
 2013-2016 *Chancellor's Funds and Stipend Top-off Awards, University of TN, \$15,809 total*
 2013 *National Science Foundation Graduate Research Fellowship, \$102,000 total*
 2012 *Best Paper Award, Institute of International Studies, UC Berkeley, \$1000*

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.

TEACHING & PEDAGOGY At The University of Tennessee, Knoxville

TEACHING: *Graduate Teaching Assistant, †Primary Instructor, ‡Guest Lecturer

- 2019 **EEB 370/PSYCH 370-** Evolutionary Psychology/Ethology; 30 students in lecture *‡
 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

2016 Integration of Research, Teaching, and Learning (CIRTL)
Associates Level Certification- CIRTL

PROFESSIONAL ACTIVITIES

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 – Anthony Bowman, Savannah Sumatra, William Kirkpatrick: University of TN, EEB Mentoring Program

2016 Damon Christensen

2015 Ashish Gaudi (Fisk University), Nathan Wikle (Truman State University), Ryan Yan (College of William and Mary): “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

2014 Charles Blue, Jane Sheehan

CONTRIBUTOR

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

JOURNAL REVIEWER

Biological Invasions (4), *Behavioral Ecology and Sociobiology* (2), *Behavioral Ecology* (1), *Southeastern Naturalist* (1)

SOCIETY MEMBERSHIP

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

PRIOR 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*

LEADERSHIP & SERVICE

2019 **Panelist**, STEM Graduate Student Chat, ASPIRE Brunch for rural, first generation college students, UTK

2017, 2018 **Panelist**, “So You Want To Go To Grad School- Graduate School Demystified”, UTK

2018 **Organizer**, “Medical School Q&A for pre-med undergraduates”, Dept. EEB, UTK

2017 **Graduate Student Representative**, EEB Faculty Graduate Affairs Committee

2016, 2017 **President**, Graduate Researchers in Ecology, Behavior, and Evolution (GREBE),

2016, 2017 **Graduate Student Representative**, EEB Faculty Executive Committee
 2015 **Vice President**, GREBE, University of Tennessee
 2015, 2016 **Member**, 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

COMMUNITY ENGAGEMENT & SERVICE

2014 – 2019 **Volunteer & Organizer**, UTK Darwin Week, UTK Knoxville, TN
 2018 **Presenter**, Invasive species awareness, Cedar Bluff Middle School, Knoxville, TN
 2018 **Volunteer Leader**, Biodiversity unit: Stream ecology, 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
 2016 **Organizer**, “National Invasive Species Awareness Week”, UT Knoxville, TN
 2015 **Volunteer**, THRIVE program for underprivileged students, Knoxville, TN
 2015 **Presenter**, “Aliens Among Us: Invasive species in Knoxville”, Knoxville
 Neighborhoods Conference, Knoxville, TN
 2015 **Volunteer Instructor**, Kids University: Animal Behavior, UT Knoxville, TN
 2015 **Volunteer**, “Math in Nature” Pond Gap Elementary School, Knoxville, TN
 2014 **Volunteer Instructor**, Kids University: Bugs, UT Knoxville, TN
 2014 **Volunteer**, Arachnid outreach, U.S. Science and Engineering Fair, Washington D.C.
 2013 – 2015 **Volunteer**, Bat Exhibit, “Boo at the Zoo”, Knoxville Zoological Gardens, TN
 2012 **Leader**, Spider Outreach Camp, Caribbean Expedition, Dominican Republic
 2008 – 2011 **Volunteer**, Hands on Science, Le Conte Elementary School, Berkeley, CA
 2007 **Backcountry Crew**, Student Conservation Association, Cumberland Gap, TN