

HOJUN SONG

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EDUCATION

<u>Year</u>	<u>Degree</u>	<u>Institution</u>
2006	Ph.D., Entomology	The Ohio State University, Columbus, OH. (Advisor: John W. Wenzel)
2002	M.S., Entomology	The Ohio State University, Columbus, OH. (Advisors: John W. Wenzel and Norman F. Johnson)
2000	B.S., Entomology	Cornell University, Ithaca, NY.

PROFESSIONAL APPOINTMENTS

<u>Year</u>	<u>Appointment</u>
2022-present	Professor , Department of Entomology, Texas A&M University
2015-present	Core Faculty of Ecology and Evolutionary Biology (EEB) Doctoral Program
2016-2022	Associate Professor , Department of Entomology, Texas A&M University
2015-2016	Assistant Professor , Department of Entomology, Texas A&M University
2010-2014	Assistant Professor , Department of Biology, University of Central Florida
2010-2014	Curator , Stuart M. Fullerton Collection of Arthropods, Department of Biology, University of Central Florida
2009-2010	Research Associate , Department of Biology, Brigham Young University
2006-2009	Postdoctoral Research Fellow , Department of Biology, Brigham Young University

HONORS & AWARDS

- **Vice Chancellor's Award in Excellence for Teaching**, Texas A&M AgriLife (2021)
- **Distinguished Achievement Award in Teaching**, Entomological Society of America Southwestern Branch (2021)
- **Fulbright Future Scholarship** (funded by The Kinghorn Foundation), Australian-American Fulbright Commission (2019-2020)
- **Outstanding Young Faculty Award**, Entomology Graduate Student Organization, Texas A&M University (2017)
- **College of Sciences Dean's Rising Star Award**, University of Central Florida (2014)
- **Faculty Early Career Development (CAREER) Award**, National Science Foundation (2013)
- **John Henry Comstock Graduate Student Award**, Entomological Society of America (2006)
- **Herta Camerer Gross Fellowship**, College of Biological Sciences, The Ohio State University (2005)
- **Graduate Research Fellowship**, National Science Foundation (2002-2005)

RESEARCH

FUNDED GRANTS

- 2022-2023 AP22PPQS&T00C023 - USDA APHIS PPQ FY22-PPA 7721-6.0230.02-Towards Field Deployment of Smart Molecular Insecticide (RNAi-based) Targeting Mormon Crickets: Year 1 of 2 (PI: H. Song, Co-PI: D. Kim, ADODR: D.A. Woller) **(\$206,077 [Song Portion: \$147,748])**
- 2021-2022 AP21PPQS&T00C008 - USDA APHIS PPQ Cooperative Agreement: “Developing smart molecular insecticide (RNAi-based) control method targeting Mormon crickets (Orthoptera: Tettigoniidae) Year 3” (PI: H. Song, Co-PI: D. Kim, ADODR: D.A. Woller) **(\$197,807 [Song portion: \$133,807])**
- 2020-2024 NSF DBI-2021795: Biological Integration Institute: “BII-Implementation: Behavioral Plasticity Research Institute (BPRI): Transforming the Study of Phenotypic Plasticity through Biological Integration” (PI: F. Gabbiani, Co-PIs: S.T. Behmer, A. Cease, H. Dierick, H. Song) **(\$12,497,519 [I am a PI of the TAMU Subaward: \$4,011,084])**
- 2020-2021 AP20PPQS&T00C027 - USDA APHIS PPQ Cooperative Agreement: “Developing smart molecular insecticide (RNAi-based) control method targeting Mormon crickets (Orthoptera: Tettigoniidae) Year 2” (PI: H. Song, ADODR: D.A. Woller) **(\$157,878)**
- 2020-2024 NSF DEB-1937815: “NSFDEB-NERC: Multidisciplinary approach to bioacoustics: Integrating phylogenomics, biophysics, and functional genomics to unravel the evolution of hearing and singing in katydids, crickets, and allies” (PI: H. Song, F. Montealegre-Z, Co-PI: N.W. Bailey, M.F. Whiting, S. Shin) **(NSF portion to Song \$884,474 + NERC portion £299,923.63)**
- 2019-2020 Fulbright Future Scholarship: “Towards Restoring Taxonomic Expertise in Australian Grasshoppers” (PI: H. Song; Host: CSIRO Australian National Insect Collection). *For 6-month sabbatical visit in Australia (up to 39,700AUD + health insurance)*
- 2019-2020 AP19PPQS&T00C035 - USDA APHIS PPQ Cooperative Agreement: “Developing smart molecular insecticide (RNAi-based) control method targeting Mormon crickets (Orthoptera: Tettigoniidae) Year 1” (PI: H. Song, Co-PI: G.A. Sword and D. Kim, ADODR: D.A. Woller) **(\$133,527 [Song portion: \$97,692])**
- 2019-2020 AP19PPQS&T00C005 - USDA APHIS PPQ Cooperative Agreement: “Transcriptome Sequencing of Mormon Cricket in Preparation for FY19 Farm Bill on Smart Molecular Insecticide (RNAi-Based)” (PI: H. Song, ADODR: D.A. Woller) **(\$5,396)**
- 2018-2019 Texas A&M University-CONACYT Research Grant Program: “Molecular suppression of locust gregarization: Field verification of gene knockdown by RNA interference in the Central American locust (*Schistocerca piceifrons*) in Yucatán, Mexico” (PI: H. Song, Co-PI: E. Loeza; award number 2018-012-2) **(\$50,000)**
- 2017-2020 NSF DEB-1655097: “SG: Collaborative Research: Evolution and Speciation in Afromontane and Alpine Grasshoppers in Southern Africa” (PI: D. Otte, Co-PI: H. Song) **(\$149,501 [Song portion: \$59,070] + \$12,000 REU Supplement)**
- 2016-2018 NSF DBI-1640919: “Towards a sustainable management of insect collections in the U.S. through the Entomological Collections Management Workshop” (PI: H. Song, Co-PI: F. Shockley) **(\$46,500)**
- 2015-2016 Texas A&M University-CONACYT Research Grant Program: “Characterization of population genetic structures and outbreak biotopes of the Central American locust (*Schistocerca piceifrons piceifrons*) using novel and integrative technologies” (PI: H. Song, Co-PI: M.G. Galindo Mendoza; award number 2015-027(S)) **(\$75,000)**
- 2013-2018 NSF IOS-1253493: “CAREER: Evolution of Locust Swarms and Phenotypic Plasticity in Grasshoppers” (PI: H. Song) **(\$787,000 + \$32,500 REU Supplement + \$15,225 CNIC Supplement + \$6,000 RAHSS Supplement)**

- 2013-2014 Orthoptera Species File Grant: “Enhancing digital content for Pyrgomorphidae (Orthoptera: Caelifera) in the Orthoptera Species File” (PI: H. Song, Co-PI: R. Mariño-Pérez) (**\$18,363**)
- 2008-2012 NSF DEB-0816962 & DEB-1064082: “Phylogenetic systematics of Orthoptera (Insecta): Evolution of male genitalia and study of nuclear mitochondrial pseudogenes” (PI: H. Song, Co-PI: M.F. Whiting) (**\$400,000 + \$25,500 REU Supplement**)
- 2011 Undergraduate Research Initiative, University of Central Florida (**\$3,000**)
- 2011 In-House Research Grant, University of Central Florida: “How to be a locust?: A comparative investigation of density-dependent phenotypic plasticity in grasshoppers” (**\$7,500**)
- 2004 Tinker Foundation Field Research Grant (**\$1,100**)
- 2004 Alumni Grants for Graduate Research and Scholarship, The Ohio State University (**\$2,000**)
- 2003-2004 NSF Graduate Research Fellowship Supplement Grant (**\$1,200 each**)
- 2003 Graduate Student Dissertation Research Travel Grant, The Ohio State University (**\$1,500**)
- 2001 Orthopterists’ Society Research Grant (**\$800**)

FUNDED INTERNATIONAL GRANTS

- 2013-2017 Hermon Slade Foundation Research Grant: “Speciation in the mountains: phylogenomics of the alpine grasshopper genus *Kosciuscola*” (PI: N. Tatarinic, SP: H. Song, SP: R. Slatyer; **AUD51,000**) [Funding in the amount of \$30,540 transferred to TAMU in October 2016].
- 2011-2014 Australian Biological Resources Study Grant 9201001831: “Diversity and evolution of Australian alpine grasshoppers (Orthoptera: Acrididae: Oxyinae: Praxibulini)” (PI: M. Herberstein, JI: H. Song – 50%; **AUD135,000**)

PENDING GRANTS

NSF IOS EDGE Program: Collaborative Research: EDGE CMT: Genetic architecture underlying coordinated alternative phenotypes (PI: H. Song) (\$667,455)

REFEREED PUBLICATIONS

(Undergraduate students^U, graduate students^G, visiting scholar^V under my supervision are underlined with appropriate superscripts, and **my name** in in bold.)

[81 to date; Citations: 3,732; h-index: 27; i10-index: 47; taken from Google Scholar (6/6/2022)]

1. Medina-Duran, J.H.^G, Dickerson, A., Salomon, J., Li, C., and **Song, H.** 2022. Localizing the puke button of grasshoppers: the regurgitation response is dependent on the body region stimulated. *Journal of Insect Behavior*. <https://doi.org/10.1007/s10905-022-09801-8>
2. Mariño-Pérez, R.^G and **Song, H.** *in press*. Pyrgomorphidae Genera of the World: Key to Genera. *Miscellaneous Publications, University of Michigan Museum of Zoology*.
3. Chung, S.H., Zhang, S., **Song, H.**, Whitham, S.A. and Jander, G. 2022. Maize resistance to insect herbivory is enhanced by silencing expression of genes for jasmonate-isoleucine degradation using sugarcane mosaic virus. *Plant Direct*, 6(6), e407. <https://doi.org/10.1002/pld3.407>
4. Woodrow, C., Pulver, C., **Song, H.**, and Montealegre-Z, F. 2022. Auditory mechanics in the Grig (*Cyphoderris monstrosa*): Tympanal travelling waves and frequency discrimination as a precursor to inner ear tonotopy. *Proceedings of the Royal Society B* 289: 20220398.
5. Husemann, M., Dey, L.-S., Sadilek, D. Ueshima, N., Hawlitschek, O., **Song, H.**, and Weissman, D. 2022. Evolution of chromosome number in grasshoppers (Orthoptera: Caelifera: Acrididae). *Organisms Diversity & Evolution*. (<https://doi.org/10.1007/s13127-022-00543-1>).

6. **Song, H.**, Muschett, G.R., **Woller, D.A.**^G, Slatyer, R.A., Tatarinic, N.J. and Umbers, K.D.L. 2021. Taxonomic notes on the Australian skyhopper genus *Kosciuscola* Sjöstedt (Orthoptera: Acrididae: Oxyinae). *Zootaxa* 5071(1): 118-130.
7. **Mariño-Pérez, R.**^G, **Sanabria-Urbán, S.**^V, **Pocco, M.E.**^V, **Foquet, B.**^G, and **Song, H.** 2021. Studies in Mexican Grasshoppers: Four new species of *Reyesacris* Fontana, Buzzetti & Mariño-Pérez, 2011 (Orthoptera: Acrididae: Ommatolampidinae). *Zootaxa* 5039(4): 518-536.
8. Barreto, L., Shon, A., Knox, D., **Song, H.**, Park, H., and Kim, J. 2021. Motorized treadmill and optical recording system for gait analysis of grasshoppers. *Sensors* 21(17), 5953. (<https://www.mdpi.com/1424-8220/21/17/5953>).
9. Umbers, K.D.L., Slatyer, R.A., Tatarinic, N.J., Muschett, G.R., Wang, S., and **Song, H.** 2021. Phylogenetics of the skyhoppers (*Kosciuscola*) of the Australian Alps: evolutionary and conservation implications. *Pacific Conservation Biology* (<https://doi.org/10.1071/PC21015>).
10. Martí, E., Milani, D., Bardella, V.B., Albuquerque, L., **Song, H.**, Palacios-Gimenez, O.M., Cabral-de-Mello, D.C. 2021. Cytogenomic analysis unveils mixed molecular evolution and recurrent chromosome rearrangements shaping the multigene families on *Schistocerca* grasshopper genomes. *Evolution* 75 (8): 2027-2041. (<https://doi.org/10.1111/evo.14287>).
11. **Foquet, B.**^G, Castellanos, A.A. and **Song, H.** 2021. Evolution of density-dependent phenotypic plasticity in locusts and grasshoppers. *Scientific Reports* 11, 11925. (<https://www.nature.com/articles/s41598-021-91317-w>).
12. Barrientos-Lozano, L., **Song, H.**, Rocha-Sánchez, A.Y. and Torres-Castillo, J.A. 2021. State of the Art on Management of the Central American locust *Schistocerca piceifrons piceifrons* (Walker, 1870). *Agronomy* 11, 1024. (<https://doi.org/10.3390/agronomy11061024>).
13. **Foquet, B.**^G and **Song, H.** 2021. The effect of the neuropeptide [His⁷]-corazonin on phase-related characteristics in the Central American locust. *Journal of Insect Physiology* 131: 104244. (<https://doi.org/10.1016/j.jinsphys.2021.104244>).
14. **Zahid, S.**^V, **Mariño-Pérez, R.**^G and **Song, H.** 2021. Molecular phylogeny of the grasshopper family Pyrgomorphidae (Caelifera, Orthoptera) reveals rampant paraphyly and convergence of traditionally used taxonomic characters. *Zootaxa* 4969 (1): 101-118.
15. Weissman, D.B., Vandergast, A.G., **Song, H.**, Shin, S., McKenna, D.D., and Ueshima, N. 2021. Generic relationships of New World Jerusalem crickets (Orthoptera: Stenopelmatoidea, Stenopelmatinae), including all known species of *Stenopelmatus*. *Zootaxa* 4917 (1): 1-122.
16. Kearney, M.R., Hossain, M.A., Sinclair, S.J., and **Song, H.** 2021. Grasshopper country before and after: a resurvey of Ken Key's collecting expeditions in NSW, Australia after 70 years. *Austral Entomology* 61(1): 52-65.
17. **Zahid, S.**^V, **Mariño-Pérez, R.**^G, Amehmood, S.A., Muhammad, K., and **Song, H.** 2020. An illustrated key of Pyrgomorphidae (Orthoptera: Caelifera) of the Indian subcontinent region. *Zootaxa* 4895 (3): 381–397.
18. **Song, H.**, Béthoux, O., Shin, S., Donath, A., Letsch, H., Liu, S., McKenna, D.D., Meng, G., Misof, B., Podsiadlowski, L., Zhou, X., Wipfler, B., and Simon, S. 2020. Phylogenomic analysis sheds light on the evolutionary pathways towards acoustic communication in Orthoptera. *Nature Communications* 11: 4939. (<https://doi.org/10.1038/s41467-020-18739-4>).
19. **Wright, K.W.**^G, Miller, K.B. and **Song, H.** 2020. A molecular phylogeny of the long-horned bees in the genus *Melissodes* Latreille (Hymenoptera: Apidae: Apinae: Eucerini). *Insect Systematics and Evolution*. DOI 10.1163/1876312X-bja10015.
20. **Mariño-Pérez, R.**^G, **Sanabria-Urbán, S.**^V, **Foquet, B.**^G, **Pocco, M.E.**^V, and **Song, H.** 2020. A new discovery of a long-winged form of Mexican endemic grasshopper *Melanotettix dibelonius* Bruner, 1904 (Orthoptera: Acrididae: Gomphocerinae) and notes on wing polymorphism and geographic distribution. *Zootaxa* 4838 (4): 515–524.
21. **Foquet, B.**^G and **Song, H.** 2020. There is no magic bullet: the importance of testing reference gene stability in RT-qPCR experiments across multiple closely related species. *PeerJ* 8: e9618. (<http://doi.org/10.7717/peerj.9618>)

22. Verlinden, H., Sterck, L., Li, J., Li, Z., Yssel, A., Gansemans, Y., Verdonck, R., Holtof, M., **Song, H.**, Behmer, S.T., Sword, G.A., Matheson, T., Ott, S., Deforce, D., Van Nieuwerburgh, F., Van de Peer, Y., and Vanden Broeck, J. 2020. First draft genome assembly of the desert locust, *Schistocerca gregaria*. [version 1; peer review: awaiting peer review]. *F1000Research* 2020, 9: 775. (<https://doi.org/10.12688/f1000research.25148.1>)
23. Giordano, R., Donthu, R.K., Zimin A.V., Chavez, I.C.J., Gabaldon, T., van Munster, M., Hon, L., Hall, R., Badger, J.H., Nguyen, M., Flores, A., Potter, B., Giray, T., Soto-Adames, F.N., Weber, E., Marcelino, J.A.P., Fields, C.J., Voegtlin, D.J., Hill, C.B., Hartman, G.L., and Soybean aphid research community (Akraiko, T., Aschwanden, A., Avalos, A., Band, M., Bonning, B., Bretaudeau, A., Chiesa, O., Chirumamilla, A., Coates, B.S., Cocuzza, G., Cullen, E., Desborough, P., Diers, B., DiFonzo, C., Heimpel, G.E., Herman, T., Huang, Y., Knodel, J., Ko, C.-C., Labrie, G., Lagos-Kutz, D., Lee, J.-H., Lee, S., Legeai, F., Mandrioli, M., Manicardi, G.C., Mazzoni, E., Melchiori, G., Micijevic, A., Miller, N., Nasuddin, A., Nault, B.A., O'Neal, M.E., Panini, M., Pessino, M., Prischmann-Voldseth, D., Robertson, H.M., Liu, S., **Song, H.**, Tilmon, K., Tooker, J., Wu, K., Zhan, S.). 2020. Soybean aphid biotype 1 genome: Insights into the invasive biology and adaptive evolution of a major agricultural pest. *Insect Biochemistry and Molecular Biology* 120: 103334.
24. Woller, D.A.^G, Foquet, B.^G, Kilpatrick, S.K.^U, Selking, R.^G, Mazel, C., and **Song, H.** 2020. Unlocking the dark: harnessing blue light fluorescence to illuminate hidden hexapods. *American Entomologist* 66(1): 38-47.
25. Palacios-Gimenez, O.M., Milani, D., **Song, H.**, Marti, D.A., López-León, M.D., Ruiz-Ruano, F., Camacho, J.P.M., Cabral-de-Mello, D.C. 2020. Eight million years of satellite DNA evolution in grasshoppers of the genus *Schistocerca* illuminate the ins and outs of the library hypothesis. *Genome Biology and Evolution* 12(3): 88-102.
26. Wang, H., Foquet, B.^G, Dewell, R.B., **Song, H.**, Dierick, H., and Gabbiani, F. 2020. Molecular characterization and distribution of the voltage-gated sodium channel, Para, in the brain of the grasshopper and vinegar fly. *Journal of Comparative Physiology A*. 206: 289-307.
27. Medina-Durán, J.M.^G, Mayén-Estrada, R., Mariño-Pérez, R.^G, and **Song, H.** 2020. Morphology and phylogenetic position of two new gregarine species (Apicomplexa: Eugregarinida) parasitizing the lubber grasshopper *Taeniopoda centurio* (Drury, 1770) (Insecta: Orthoptera: Romaleidae) in Mexico. *Journal of Eukaryotic Microbiology* 67: 4-17.
28. Kilpatrick, S.K.^U, Foquet, B.^G, Castellanos, A.A., Gotham, S.^G, Little, D.W.^U, and **Song, H.** 2019. Revealing hidden density-dependent phenotypic plasticity in sedentary grasshoppers in the genus *Schistocerca* Stål (Orthoptera: Acrididae: Cyrtacanthacridinae). *Journal of Insect Physiology* 118: 103937.
29. **Song, H.**, Donthu, R.K., Hall, R., Hon, L., Weber, E., Badger, J.H. and Giordano, R. 2019. Description of soybean aphid (*Aphis glycines* Matsumura) mitochondrial genome and comparative mitogenomics of Aphididae (Hemiptera: Sternorrhyncha). *Insect Biochemistry and Molecular Biology* 113: 103208.
30. Richardson, S.^U, Trimm, T.^U, Paredes, R.^U, Koehl, J.^U, and **Song, H.** 2019. A new species of king cricket *Glaphyrosoma* Brunner von Wattenwyl, 1888 (Orthoptera: Anostostomatidae: Glaphyrosomatini) from Costa Rica with behavioral observations. *Zootaxa* 4671 (1): 093–104.
31. Pocco, M.E.^V, Cigliano, M.M., Foquet, B.^G, Lange, C.E., Nieves, E.L., and **Song, H.** 2019. Density-dependent phenotypic plasticity in the South American locust, *Schistocerca cancellata* (Serville, 1838) (Orthoptera, Acrididae, Cyrtacanthacridinae). *Annals of the Entomological Society of America*. 112 (5): 458-472. [cover art]
32. Mariño-Pérez, R.^G and **Song, H.** 2019. On the origin of the New World Pyrgomorphidae (Insecta: Orthoptera). *Molecular Phylogenetics and Evolution* 139: 106537.
33. Yang, L., Nitin R., Mariño-Pérez, R.^G, Deshmukh, R., Wu, M., Rosenstein, A., Kunte, K., **Song, H.**, Andolfatto, P. 2019. Predictability in the evolution of Orthopteran cardenolide insensitivity. *Philosophical Transactions of the Royal Society B* 374: 20180246.

34. Gale, C.C.^G, Borrego, E., Blackmon, H., Harper, J.K., Richardson, D., and **Song, H.** 2019. Investigating a photolytic metabolite in the nocturnal grasshopper *Schistocerca ceratiola* (Orthoptera: Acrididae). *Annals of the Entomological Society of America* 112(1): 50-55.
35. Milani, D., Bardella, V.B., Ferretti, A.B.S.M., Palacios-Gimenez, O.M., de S Melo, A., de C de Moura, R., Loreto, V., **Song, H.**, and Cabral-de-Mello, D.C. 2018. Satellite DNAs unveil clues about the ancestry and composition of B chromosomes in three grasshopper species. *Genes* 9: 523; 1-15.
36. Mugleston, J.^G, Naegle, M., **Song, H.**, and Whiting, M.F. 2018. A comprehensive phylogeny of Tettigoniidae (Orthoptera: Ensifera) reveals extensive ecomorph convergence and widespread taxonomic incongruence. *Insect Systematics and Diversity* 2(4): 5; 1–27.
37. **Song, H.**, Mariño-Pérez, R.^G, Woller, D.A.^G, and Cigliano, M.M. 2018. Evolution, diversification, and biogeography of grasshoppers (Orthoptera: Acrididae). *Insect Systematics and Diversity* 2(4): 3; 1–25. [cover art]
38. Cullen, D.A., Cease, A., Latchinsky, A.V., Ayali, A., Berry, K., Buhl, J., De Keyser, R., Foquet, B.^G, Hadrich, J.C., Matheson, T., Ott, S.R., Poot-Pech, M.A., Robinson, B.E., Smith, J., **Song, H.**, Sword, G.A., Vanden Broeck, J., Verdonck, R., Verlinden, H. and Rogers, S.M. 2017. From molecules to management: Mechanisms and consequences of locust phase polyphenism. *Advances in Insect Physiology* 53: 167-285.
39. **Song, H.**, Foquet, B.^G, Mariño-Pérez, R.^G and Woller, D.A.^G 2017. Phylogeny of locusts and grasshoppers reveals complex evolution of density-dependent phenotypic plasticity. *Scientific Reports* 7: 6606.
40. Mariño-Pérez, R.^G and **Song, H.** 2018. Phylogeny of the grasshopper family Pyrgomorphidae (Caelifera, Orthoptera) based on morphology. *Systematic Entomology* 43: 90-108.
41. Sanabria-Urban, O.S.^V, **Song, H.**, Oyama, K., González-Rodríguez, A. and Cueva del Castillo, R. 2017. Integrative taxonomy reveals cryptic diversity in neotropical grasshoppers: taxonomy, phylogenetics, and evolution of the genus *Sphenarium* Charpentier, 1842 (Orthoptera: Pyrgomorphidae). *Zootaxa* 4274 (1): 1-86.
42. Woller, D.A.^G and **Song, H.** 2017. Investigating the functional morphology of genitalia during copulation in the grasshopper *Melanoplus rotundipennis* (Scudder, 1878) via correlative microscopy. *Journal of Morphology* 278: 334–359.
43. Raszick, T.J.^G and **Song, H.** 2016. The ecotype paradigm: Testing the concept in an ecologically divergent grasshopper. *Insect Systematics & Evolution* 47(4): 363-387.
44. Mugleston, J.^G, Naegle, M., **Song, H.**, Bybee, S.M., Ingley, S., Suvorov, A. and Whiting, M.F. 2016. Reinventing the leaf: Multiple origins of leaf-like wings in katydids (Orthoptera: Tettigoniidae). *Invertebrate Systematics* 30: 335-352.
45. Amorim, D.S., Santos, C.M.D, Krell, F., Dubois, A., Nihei, S.S., Oliveira, O.M.P., Pont, A., **Song, H.**, Verdade, V.K., Fachin, D.A., Klassa, B., Lamas, C.J.E., Oliveira, S.S., de Carvalho, C.J.B., Mello-Patiu, C.A., Hajdu, E., Couri, M.S., Silva, V.C., Capellari, R.S., Falaschi, R.L., Feitosa, R., Prendini, L., Pombal Jr., J.P., Fernández, F., Rocha, R.M., Lattke, J.E., Caramaschi, U., Duarte, M., Marques, A.C., dos Reis, R.E., Kurina, O., Takiya, D.M., Tavares, M., da Silva, D.F., Franco, F.L., Cuezco, F., Paulson, D., Guénard, B., Schlick-Steiner, B., Arthofer, W., Steiner, F., Fisher, B.L., Johnson, R.A., Delsinne, T.D., Donoso, D.A., Mulieri, P.R., Patitucci, L.D. and Grimaldi, D. 2016. Timeless standards for species delimitation. *Zootaxa* 4137(1): 121-128.
46. Sanabria-Urban, O.S.^V, **Song, H.**, Oyama, K., González-Rodríguez, A. Serrano-Meneses, M.A. and Cueva del Castillo, R. 2015. Body size adaptations to altitudinal climatic variation in Neotropical grasshoppers of the genus *Sphenarium* (Orthoptera: Pyrgomorphidae). *PLoS One* 10(12): e0145248.
47. Kelly, S.L.^G, **Song, H.** and Jenkins, D.G. 2015. Land management practices interactively affect wetland beetle ecological and phylogenetic community structure. *Ecological Applications* 25(4): 891-900.
48. **Song, H.**, Amédégnato, C., Cigliano, M.M., Desutter-Grandcolas, L., Heads, S.W., Huang, Y., Otte, D. and Whiting, M.F. 2015. 300 million years of diversification: Elucidating the patterns of orthopteran evolution based on comprehensive taxon and gene sampling. *Cladistics* 31: 621-651.

49. **Song, H.**, [Moulton, M.J.](#)^U and Whiting, M.F. 2014. Rampant nuclear insertion of mtDNA across diverse lineages within Orthoptera (Insecta). *PLoS One* 9(10): e110508.
50. [Woller, D.A.](#)^G, Fontana, P., [Mariño-Pérez, R.](#)^G and **Song, H.** 2014. Studies in Mexican Grasshoppers: *Liladownsia fraile*, a new genus and species of Dactyloptini (Acrididae: Melanoplinae) and an updated molecular phylogeny of Melanoplinae. *Zootaxa* 3793 (4): 475–495.
51. **Song, H.** and [Mariño-Pérez, R.](#)^G 2013. Re-evaluation of taxonomic utility of male phallic complex in higher-level classification of Acridomorpha (Orthoptera: Caelifera). *Insect Systematics & Evolution* 44: 241-260.
52. [Gotham, S.](#)^G and **Song, H.** 2013. Non-swarming grasshoppers exhibit density-dependent phenotypic plasticity reminiscent of swarming locusts. *Journal of Insect Physiology* 59: 1151-1159.
53. Blondin, L., Badisco, L., Pagès, C., Foucart, A., Risterucci, A-M., Bazelet, C.S., Vanden Broeck, J., **Song, H.**, Ould Ely, S. and Chapuis, M-P. 2013. Characterization and comparison of microsatellite markers derived from genomic and expressed libraries for the desert locust. *Journal of Applied Entomology* 137(9): 673-683.
54. [Mugleston, J.D.](#)^G, **Song, H.** and Whiting, M.F. 2013. A century of paraphyly: A molecular phylogeny of katydids (Orthoptera: Tettigoniidae) supports multiple origins of leaf-like wings. *Molecular Phylogenetics and Evolution* 69: 1120-1134.
55. Tataric, N.J., Umbers, K.D.L. and **Song, H.** 2013. Molecular phylogeny of the *Kosciuscola* grasshoppers endemic to the Australian alpine and montane regions. *Invertebrate Systematics* 27: 307–316. [cover art]
56. [Leavitt, J.R.](#)^U, [Hiatt, K.D.](#)^U, Whiting, M.F. and **Song, H.** 2013. Searching for the optimal data partitioning strategy in mitochondrial phylogenomics: A phylogeny of Acridoidea (Insecta: Orthoptera: Caelifera) as a case study. *Molecular Phylogenetics and Evolution* 67: 494-508.
57. **Song, H.**, [Moulton, M.J.](#)^U, [Hiatt, K.D.](#)^U and Whiting, M.F. 2013. Uncovering historical signature of mitochondrial DNA hidden in the nuclear genome: The biogeography of *Schistocerca* revisited. *Cladistics* 29: 643-662.
58. [Kumar, S.](#)^G, Ganji, P.C.N., **Song, H.**, von Kalm, L. and Borst, D. 2012. Exposure to exogenous enkephalins disrupts reproductive development in the Eastern lubber grasshopper, *Romalea microptera* (Insecta: Orthoptera). *PLoS One* 7(11): e51126.
59. **Song, H.** 2011. Density-dependent phase polyphenism in nonmodel locusts: A minireview. *Psyche* vol. 2011, Article ID 741769, 16 pages, 2011. doi:10.1155/2011/741769.
60. [Sheffield, N.C.](#)^U, [Hiatt, K.D.](#)^U, Valentine, M.C., **Song, H.** and Whiting, M.F. 2010. Mitochondrial genomics in Orthoptera using MOSAS. *Mitochondrial DNA* 21(3-4): 87-104.
61. **Song, H.** 2010. Grasshopper systematics: Past, present and future. *Journal of Orthoptera Research* 19(1): 57-68.
62. Legendre, F., Robillard, T., **Song, H.**, Whiting, M.F. and Desutter-Grandcolas, L. 2010. One hundred years of instability in Ensiferan relationships. *Systematic Entomology* 35(3): 475-488.
63. **Song, H.**, [Sheffield, N.C.](#)^U, Cameron, S.L., Miller, K.B. and Whiting, M.F. 2010. When phylogenetic assumptions are violated: The effect of base compositional heterogeneity and among-site rate variation in beetle mitochondrial phylogenomics. *Systematic Entomology* 35(3): 429-448.
64. [Moulton, M.J.](#)^U, **Song, H.**, and Whiting, M.F. 2010. Assessing the effects of primer specificity on eliminating numt co-amplification in DNA barcoding: A case study from Orthoptera (Arthropoda: Insecta). *Molecular Ecology Resources* 10: 615-627.
65. **Song, H.** and Bucheli, S.R. 2010. Comparison of phylogenetic signal between male genitalia and non-genital characters in insect systematics. *Cladistics* 26: 23-35.
66. [Jensen, D.](#)^U, Svenson, G.J., **Song, H.** and Whiting, M.F. 2009. Phylogeny and evolution of male genitalia within the praying mantis genus *Tenodera* (Mantodea: Mantidae). *Invertebrate Systematics* 23: 409-421. [cover art]
67. Cameron, S.L., Sullivan, J., **Song, H.**, Miller, K.B. and Whiting, M.F. 2009. A mitochondrial genome phylogeny of the Neuropterida (lace-wings, alderflies and snakeflies) and their relationship to the other holometabolous insect orders. *Zoologica Scripta* 38(6): 575-590.

68. **Sheffield, N.C.**^{U§}, **Song, H.**[§], Cameron, S.L. and Whiting, M.F. 2009. Nonstationary evolution and compositional heterogeneity in beetle mitochondrial phylogenomics. *Systematic Biology* 58(4): 381-394. (§contributed equally)
69. **Song, H.** 2009. Species-specificity of male genitalia is characterized by shape, size, and complexity. *Insect Systematics & Evolution* 40(2): 159-170.
70. **Sheffield, N.C.**^U, **Song, H.**, Cameron, S.L. and Whiting, M.F. 2008. A comparative analysis of mitochondrial genomes in Coleoptera (Arthropoda: Insecta) and genome descriptions of six new beetles. *Molecular Biology and Evolution* 25(11): 2499-2509.
71. **Fenn, J.D.**^U, **Song, H.**, Cameron, S.L. and Whiting, M.F. 2008. A mitochondrial genome phylogeny of Orthoptera (Insecta) and approaches to maximizing phylogenetic signal found within mitochondrial genome data. *Molecular Phylogenetics and Evolution* 49: 59-68.
72. **Song, H.**, Buhay, J.E., Whiting, M.F. and Crandall, K.A. 2008. Many species in one: DNA barcoding overestimates the number of species when nuclear mitochondrial pseudogenes are coamplified. *Proceedings of the National Academy of Sciences of the U.S.A.* 105(36): 13486-13491.
73. **Song, H.** and Wenzel, J.W. 2008. Mosaic pattern of genital divergence in three populations of *Schistocerca lineata* Scudder, 1899 (Orthoptera: Acrididae: Cyrtacanthacridinae). *Biological Journal of the Linnean Society* 94: 289-301.
74. **Song, H.** and Wenzel, J.W. 2008. Phylogeny of bird-grasshopper subfamily Cyrtacanthacridinae (Orthoptera: Acrididae) and the evolution of locust phase polyphenism. *Cladistics* 24: 515-542.
75. **Song, H.**, Weissman, D., Barrientos-Lozano, L., and Cano-Santana, Z. 2006. The Locust Island. *American Entomologist* 52(3): 168-181.
76. **Song, H.** 2006. Description of *Schistocerca cohni* n. sp. and redescription of *S. socorro* (Dirsh) (Orthoptera: Acrididae: Cyrtacanthacridinae) from Mexico. *Zootaxa* 1150: 43-52.
77. **Song, H.** 2005. Phylogenetic perspectives on the evolution of locust phase polyphenism. *Journal of Orthoptera Research* 14(2): 235-245.
78. **Song, H.** 2004. On the origin of the desert locust *Schistocerca gregaria* (Forskål) (Orthoptera: Acrididae: Cyrtacanthacridinae). *Proceedings of the Royal Society of London B* 271: 1641-1648.
79. **Song, H.** 2004. Revision of the Alutacea Group of genus *Schistocerca* (Orthoptera: Acrididae: Cyrtacanthacridinae). *Annals of the Entomological Society of America* 97: 420-436.
80. **Song, H.** 2004. Post-adult emergence development of genitalic structures in *Schistocerca* Stål and *Locusta* L. (Orthoptera: Acrididae). *Proceedings of the Entomological Society of Washington* 106: 181-191.
81. Liebherr, J.K. and **Song, H.** 2002. Distinct ground beetle (Coleoptera: Carabidae) assemblages within a New York State wetland complex. *Journal of the New York Entomological Society* 110: 127-141.

MANUSCRIPTS SUBMITTED

1. Pellegrini, E.J., Hattori, E.M., Benson, L.V., Southon, J., Madsen, D.B., **Song, H.** and Woller, D.A. *submitted*. A 14,100 cal B. P. Rocky Mountain locust cache from Winnemucca Lake, Pershing County, Nevada. *Journal of Archaeological Science: Reports*
2. **Foquet, B.**^G, **Little, D.W.**^U, and **Song, H.** *submitted*. The time-course of behavioural phase transition in the Central American locust. *Journal of Experimental Biology*.
3. **Hoang, T.**^G, **Foquet, B.**^G, Rana, S., **Little, D.W.**^U, Woller, D.A., Sword, G.A., and **Song, H.** *submitted*. Development of RNAi methods for the Mormon cricket, *Anabrus simplex* (Orthoptera: Tettigoniidae). *Pest Management Science*.

BOOK CHAPTERS

1. Mariño-Pérez, R., Sanabria-Urbán, S., Rocha-Sánchez, A.Y. and **Song, H.** 2019. Plains Lubber Grasshopper *Brachystola magna* (Girard, 1854) (Romaleidae) in Encyclopedia of Pest Orthoptera of the World (Eds. M. Lecoq and L. Zhang). Pp. 225-229. China Agricultural University Press (Beijing, China).

2. Sanabria-Urbán, S., Mariño-Pérez, R., and **Song, H.** 2019. Corn Grasshopper *Sphenarium purpurascens* (Charpentier, 1842) (Pyrgomorphidae) in Encyclopedia of Pest Orthoptera of the World (Eds. M. Lecoq and L. Zhang). Pp. 245-249. China Agricultural University Press (Beijing, China).
3. **Song, H.**, Cigliano, M.M., and Lange, C.E. 2019. South American Locust *Schistocerca cancellata* (Serville, 1838) (Acrididae) in Encyclopedia of Pest Orthoptera of the World (Eds. M. Lecoq and L. Zhang). Pp. 198-203. China Agricultural University Press (Beijing, China).
4. **Song, H.** 2019. Peruvian Locust *Schistocerca interrita* (Scudder, 1899) (Acrididae) in Encyclopedia of Pest Orthoptera of the World (Eds. M. Lecoq and L. Zhang). Pp. 213-215. China Agricultural University Press (Beijing, China).
5. **Song, H.** 2019. Central American Locust *Schistocerca piceifrons* (Walker, 1870) (Acrididae) in Encyclopedia of Pest Orthoptera of the World (Eds. M. Lecoq and L. Zhang). Pp. 216-220. China Agricultural University Press (Beijing, China).
6. **Song, H.** 2019. Semiaquatic Orthoptera in An Introduction to the Aquatic Insects of North America (5th edition). (Eds. R.W. Merritt, K.W. Cummins and M.B. Berg). pp. 411-428. Kendall/Hunt Publishing Company (Dubuque, IA).
7. **Song, H.** 2018. Biodiversity of Orthoptera in Insect Biodiversity: Science and Society Volume II. (Eds. R.G. Foottit and P.H. Adler). pp. 245-279. John Wiley & Sons Ltd. (Hoboken, NJ).

NON-REFEREED PUBLICATIONS

1. Bond, J.E. and **Song, H.** 2022. Editorial: Introducing the New Editors-in-Chief of Insect Systematics and Diversity and Sharing Their Vision. *Insect Systematics and Diversity* 6(2): 4. (<https://doi.org/10.1093/isd/ixac005>)
2. **Song, H.** 2018. A call for international research and funding on locusts. *Open Access Government*. February 2018: 342-343.
3. **Song, H.** and Thijssen, M.S. 2014. Editorial: Insect Systematics & Evolution: A new vision for the future. *Insect Systematics & Evolution* 45: 1-2.
4. Krogmann, L. and **Song, H.** 2013. Editorial: Morphology and integrative phylogenetics. *Insect Systematics & Evolution* 44: 239-240.
5. **Song, H.** 2010. Book Review: “Locust Phase Polyphenism: An Update” by Meir Paul Pener and Stephen J. Simpson. *Metaleptea* 30(2): 14-16.
6. **Song, H.** 2008. Ecological study of the Central American locusts on Socorro Island. *Econature* 15: 66-71. [in Korean]
7. **Song, H.** 2007. Mouse-catching locust – A mysterious creature revealed. *Metaleptea* 27(1): 6-7.
8. Weissman D.B., **Song, H.** and Barrientos-Lozano, L. 2004. Locust Outbreak on Socorro Island, Islas Revillagigedo, México. *TecnoINTELECTO* 1(2): 119-121.
9. **Song, H.** 2000. Ground beetle diversity at McLean Bogs. *Cornell Plantations Notes* 74: 8-9.

INVITED SEMINARS

- 2022 XI Congreso Argentino y XII Congreso Latinoamericano de Entomología (XI CAE y XII CLE), Universidad Nacional de La Plata, La Plata, Buenos Aires, Argentina.
“Evolution of Locust Swarms and Phenotypic Plasticity in Grasshoppers” (10/2022)
- 2022 2022 Arthropod Genomics Symposium, University of Notre Dame, South Bend, IN
“*Schistocerca* (Orthoptera: Acrididae) as a model clade for studying phenotypic plasticity from a genomic perspective” (6/11/2022)
- 2022 Southeast Texas Evolutionary Genetics and Genomics (STEGG), University of Houston, Houston, TX
“*Schistocerca* (Orthoptera: Acrididae) as a model clade for studying phenotypic plasticity from a genomic perspective” (6/3/2022)

- 2021 Evolution, Ecology, Genetics & Genomics Seminar (E2G2), Department of Biology, University of Rochester, Rochester, NY
 “Evolution of locust swarms and phenotypic plasticity in grasshoppers” (virtual, 3/5/2021)
- 2020 Cambridge Entomological Club, MA
 “From cricket songs to swarming locusts: Elucidating patterns and processes of orthopteran evolution” (virtual, 12/8/2020)
- 2020 2020 Fall Conference of Korean Society of Applied Entomology, Hwasung, Korea
 Plenary Seminar in Symposium: Recent Outcomes of Insect Phylogeny and International Cooperation (virtual, 10/28/2020)
 “The Orthoptera Tree of Life: Elucidating patterns and processes of orthopteran evolution”
- 2020 Department of Entomology, Texas A&M University, College Station, TX
 “From cricket songs to swarming locusts: Elucidating patterns and processes of orthopteran evolution” (virtual, 9/3/2020)
- 2020 Department of Zoology, Panjab University, Chandigarh, India. International Webinar: Locust swarming in India amidst COVID-19 Pandemic
 “What makes swarming locusts different from grasshoppers?: An in-depth look at the evolution and mechanism of locust phase polyphenism” (virtual, 6/20/2020)
- 2020 69th Entomological Society of New Zealand Conference, Dunedin, New Zealand: Plenary Presentation
 “From cricket songs to swarming locusts: Elucidating patterns and processes of orthopteran evolution” (4/2020 – cancelled due to COVID-19)
- 2020 Centre for Biodiversity Analysis Seminar Series, Australian National University, Canberra, Australia
 “From cricket songs to swarming locusts: Elucidating patterns and processes of orthopteran evolution” (3/2020 – cancelled due to COVID-19)
- 2020 Department of Biology, Brigham Young University, Provo, UT
 “From cricket songs to swarming locusts: Elucidating patterns and processes of orthopteran evolution” (1/2020)
- 2017 Academy of Natural Sciences of Drexel University, Philadelphia, PA
 “The Orthoptera Tree of Life: Elucidating patterns and processes of orthopteran evolution” (10/2017)
- 2017 American Entomological Society Seminar Series, University of Delaware, DE
 “The Orthoptera Tree of Life: Elucidating patterns and processes of orthopteran evolution” (10/2017)
- 2016 12th International Congress of Orthopterology, Ilhéus, Brazil. Plenary Seminar on Systematics.
 “Orthopteran systematics: Past, present, and future” (11/2016)
- 2016 Centro de Estudios Parasitológicos y de Vectores (CEPAVE), La Plata, Argentina
 “Evolution of density-dependent phenotypic plasticity in grasshoppers and locusts”
- 2015 Instituto Tecnológico de Conkal, Mexico
 “Una perspectiva filogenética sobre la evolución de las plagas de langostas”
- 2015 Department of Biogeography, Trier University, Germany
 “Evolution of density-dependent phenotypic plasticity in grasshoppers and locusts”
- 2015 Ecology and Evolutionary Biology (EEB) Seminar Series, Texas A&M University
 “Evolution of density-dependent phenotypic plasticity in grasshoppers and locusts”
- 2014 Texas A&M University, Department of Entomology
 “The Orthoptera Tree of Life, molecular fossils, and swarming locusts: Elucidating patterns and processes of orthopteran evolution”
- 2014 Ohio State University, Department of Evolution, Ecology, and Organismal Biology
 “The Orthoptera Tree of Life, numts, and swarming locusts: Elucidating patterns and processes of orthopteran evolution”
- 2013 Archbold Biological Station, Florida
 “Jekyll & Hyde in the insect world: How some grasshoppers become swarming locusts”
- 2013 University of South Florida, Department of Integrative Biology
 “Evolution of density-dependent phenotypic plasticity in grasshoppers and locusts”

- 2012 University of Georgia, Department of Entomology
“300 millions of evolution in Orthoptera (Insecta)”
- 2010 University of Florida, Department of Entomology and Nematology
“The Making of a Locust: Evolution of density-dependent phenotypic plasticity in grasshoppers (Orthoptera: Acrididae)”
- 2010 University of Central Florida, Department of Biology (Job seminar for Assistant Professor position)
“Evolution of swarming locusts inferred from molecular fossils”
- 2009 CSIRO, Department of Entomology, Canberra, Australia
“Nuclear mitochondrial pseudogenes and heteroplasmy in mitochondrial systematics: Friends or Foes?”
- 2009 University of Sydney, Locust Research Group
“Nuclear mitochondrial pseudogenes and heteroplasmy in mitochondrial systematics: Friends or Foes?”
- 2009 National Institute of Biological Resources, Incheon, Korea
“Cost of untested assumptions in molecular systematics in the age of rapid and massive data generation”
- 2008 Smithsonian Institution, Department of Entomology, Washington, D.C. (Job seminar for Research Curator position)
“Linking pattern and process: Phylogenetic perspectives on the evolution of swarming locusts and the study of insect male genitalia”
- 2008 Sam Houston State University, Department of Biological Sciences
“Ordinary penis: Evolution of insect male genitalia is not so special”
- 2005 The Ohio State University, Department of Entomology
“The Locust Island – A fascinating story of the swarming locusts on Socorro Island, Mexico”

CONFERENCE PRESENTATIONS CONTRIBUTED AS AN INVITED SPEAKER

- 2021 Introducing the Behavioral Plasticity Research Institute (BPRI). 42nd Annual Meeting of the Orthoptera Special Interest Group, Royal Entomological Society (11/2021, virtual)
- 2019 Australian Entomological Society Conference, Brisbane, Australia. In Symposium: Orthoptera as model organisms in ecology and evolution
“From cricket songs to swarming locusts: Elucidating patterns and processes of orthopteran evolution” (12/2019)
- 2019 13th International Congress of Orthopterology, Agadir, Morocco. In Symposium: Population and landscape genetics/genomics of Orthopterans
“Speciation in the mountains: Phylogenomics of the alpine grasshopper genus *Kosciuscola* (Orthoptera: Acrididae)” (3/2019)
- 2019 13th International Congress of Orthopterology, Agadir, Morocco. In Symposium: Evolution, Diversification, and Biogeography
“Phylogenomic analysis of Orthoptera sheds new light on the evolution of acoustic communication)” (3/2019)
- 2017 Entomological Society of America Annual Meeting, Denver, CO. Member Symposium:
“Orthopteroids: Innovative Organisms to Ignite and Inspire Scientific Research and Communication”
“The future of orthopteran systematics” (11/2017)
- 2017 VIIIth Dresden Meeting on Insect Phylogeny, Dresden, Germany
“Phylogeny of Orthoptera: Progress and future directions” (09/2017)
- 2016 TALLER REGIONAL DE MANEJO DE LA LANGOSTA CENTROAMERICANA *Schistocerca piceifrons*. Yucatan, Mexico. “Teoría de fases: de solitario a gregario” (12/2016)
- 2016 International Congress of Entomology (ICE2016), Orlando, FL. In Symposium: Mechanisms and Consequences of Phase Change in the Desert Locust, *Schistocerca gregaria*
“Phylogenetic perspective on the evolution of phase polyphenism”

- 2015 VIIth Dresden Meeting on Insect Phylogeny, Dresden, Germany
“The Orthoptera Tree of Life: Elucidating patterns and processes of orthopteran evolution”
- 2015 Annual Meeting of the National Grasshopper Management Board
“Locust phase polyphenism: Past, present, and future,” “Evolution of swarming locusts inferred from the phylogeny of the grasshopper genus *Schistocerca* (Orthoptera: Acrididae)”
- 2014 CURSO-TALLER DE MANEJO DE LANGOSTA Y CHAPULÍN, Yucatan, Mexico
“Grasshopper diversity,” “Locust phase polyphenism”
- 2014 German Zoological Society
“The Orthoptera Tree of Life: Elucidating patterns and processes of orthopteran evolution”
- 2013 International Congress of Orthopterology, Kunming, China, Symposium on Systematics
“Phylogenetic Systematics of Orthoptera”
- 2012 International Congress of Entomology (ICE2012), Daegu, Korea, Symposium on Biogeography: Challenges to a Biological Synthesis
“The fossils within: use of nuclear mitochondrial pseudogenes to understand historical biogeography”
- 2012 International Congress of Entomology (ICE2012), Daegu, Korea, Symposium on Diversification and Dating Methods and Their Applications to Entomology
“300 millions of evolution: Divergence dating in Orthoptera (Arthropoda: Insecta)”
- 2012 International Congress of Entomology (ICE2012), Daegu, Korea, Symposium on Insect Mitochondrial Genomics
“What can mitochondrial genomes tell about beetle evolution?: Strengths and pitfalls of mitochondrial phylogenomics”
- 2010 Entomological Society of America Annual Meeting, San Diego, CA, Section Symposium on Insect Divergence Time Estimate
“300 million years of evolution: Phylogeny of Orthoptera (Insecta)”
- 2010 Rutgers University, Northeastern Symposium on Evolutionary Divergence Time
“Uncovering historical signature of mitochondrial DNA hidden in the nuclear genome: The origin of the desert locust revisited”
- 2009 Entomology Collections Network Annual Meeting, Indianapolis, IN
“Introducing Korean National Institute of Biological Resources”
- 2009 Dan Otte Symposium, University of Lethbridge, Lethbridge, Canada
“Grasshopper systematics: Past, Present and Future”
- 2005 Entomological Society of America Annual Meeting, Ft. Lauderdale, FL, Program Symposium on Evolution of Insect Sexual Characters and Courtship Behavior
“Variation of insect genitalia: Are we assuming too much?”
- 2005 Ninth International Conference of the Orthopterists’ Society, Canmore, Canada, Plenary Symposium on Advances and Controversies in Phase Polyphenism Research
“Phylogenetic perspectives on the evolution of locust phase polyphenism”
- 2004 Entomological Society of America Annual Meeting, Salt Lake City, UT, Symposium on Future of Orthopteran Science
“Phylogenetic perspectives on the evolution of insect genitalia”
- 2001 Entomological Society of America Annual Meeting, Cincinnati, OH, Symposium on Multidisciplinary Advances in Orthopteran Science
“Phylogeny of *Schistocerca* – Origin of desert locust revisited”

PRESENTATIONS CONTRIBUTED AS PRIMARY AUTHOR

- 2022 **Song, H.**, Childers, A., Dudchenko, O., Geib, S., Sim, S., Simmonds, T., Stahlke, A., Techer, M., Richards, S., Lieberman Aiden, E., and Gabbiani, F. *Schistocerca* (Orthoptera: Acrididae) as a model clade for studying phenotypic plasticity from a genomic perspective. 2022 Arthropod Genomics Symposium (AGS), University of Notre Dame, IN.

- 2022 **Song, H.**, Childers, A., Dudchenko, O., Geib, S., Sim, S., Simmonds, T., Stahlke, A., Techer, M., Richards, S., Lieberman Aiden, E., and Gabbiani, F. *Schistocerca* (Orthoptera: Acrididae) as a model clade for studying phenotypic plasticity from a genomic perspective. Southeast Texas Evolutionary Genetics and Genomics (STEGG) symposium, University of Houston, TX.
- 2022 **Song, H.** Developing smart molecular insecticide (RNAi-based) management method targeting Mormon crickets (Orthoptera: Tettigoniidae): An update. Idaho USDA PPQ Grasshopper and Mormon Cricket Winter Meeting (virtual).
- 2022 **Song, H.** Developing smart molecular insecticide (RNAi-based) management method targeting Mormon crickets (Orthoptera: Tettigoniidae): An update. National Grasshopper Management Board Meeting (virtual).
- 2021 **Song, H.**, Armstrong, A., Raszick, T., Shin, S., Techer, M., Cowper, G., Mariño-Pérez, R., Foquet, B., and Otte, D. Evolution and speciation in Afromontane and alpine grasshoppers in Southern Africa. Entomological Society of America Annual Meeting, Denver, CO. (virtual)
- 2021 **Song, H.** Developing smart molecular insecticide (RNAi-based) control method targeting Mormon crickets (Orthoptera: Tettigoniidae). Korean Young Entomologists Symposium. Entomological Society of America Annual Meeting, Denver, CO. (virtual)
- 2021 **Song, H.** Developing smart molecular insecticide (RNAi-based) control method targeting Mormon crickets (Orthoptera: Tettigoniidae). Idaho USDA PPQ Grasshopper and Mormon Cricket Winter Meeting (virtual)
- 2020 **Song, H.**, Bethoux, O., Shin, S. and Simon, S. Phylogenomic analysis sheds light on the evolutionary pathways towards acoustic communication in Orthoptera. Entomological Society of America Annual Meeting, Orlando, FL. (virtual)
- 2019 **Song, H.** The making of a locust: a closer look at reaction norm evolution. The Society for Integrative & Comparative Biology Annual Meeting, Tampa, FL.
- 2018 **Song, H.**, Slatyer, R.A., and Tataric, N.J. Speciation in the mountains: Phylogenomics of the alpine grasshopper genus *Kosciuscola* (Orthoptera: Acrididae). Entomological Society of America Annual Meeting, Vancouver, Canada.
- 2015 **Song, H.** Understanding the most recent and rapid radiation in Orthoptera: A molecular phylogeny of Acrididae (Orthoptera: Acridoidea). Entomological Society of America Annual Meeting, Minneapolis, MN.
- 2014 **Song, H.** Stuart M. Fullerton Collection of Arthropods: Past, present and future. Entomological Collections Network, Portland, OR.
- 2013 **Song, H.** Evolution of density-dependent phenotypic plasticity in grasshoppers: An overview. Entomological Society of America Annual Meeting, Austin, TX.
- 2012 **Song, H.** A higher-level phylogeny of Acridomorpha (Orthoptera: Caelifera) based on mitochondrial genome data. Entomological Society of America Annual Meeting, Knoxville, TN.
- 2011 **Song, H.**, Moulton, M.J. and Whiting, M.F. A broad-scale survey of nuclear mitochondrial pseudogenes in Orthoptera (Insecta). Entomological Society of America Annual Meeting, Reno, NV.
- 2009 **Song, H.**, Moulton, M.J. and Whiting, M.F. Use of nuclear mitochondrial pseudogenes as molecular fossils: a case study using the grasshopper genus *Schistocerca* (Orthoptera: Acrididae). Entomological Society of America Annual Meeting, Indianapolis, IN.
- 2009 **Song, H.**, Moulton, M.J. and Whiting, M.F. Phylogeny of *Schistocerca* revisited: Locust biogeography inferred from molecular fossils. 10th International Congress of Orthopterology, Antalya, Turkey.
- 2008 **Song, H.**, Sheffield, N.C., Cameron, S.L, and Whiting, M.F. A mitochondrial genome phylogeny of Coleoptera (Insecta): Overcoming systematic bias from base compositional heterogeneity. Entomological Society of America Annual Meeting, Reno, NV.
- 2008 **Song, H.**, Wild, A.L., McKenna, D., Whiting, M.F., Maddison, D.R., and Farrell, B.D. Assembling the Beetle Tree of Life (BTOL): A progress report. NSF Assembling Tree of Life (AToL) PIs meeting, New Orleans, LA.

- 2007 **Song, H.** and Whiting, M.F. Nuclear mitochondrial pseudogenes introduce ambiguity in DNA barcoding. Entomological Society of America Annual Meeting, San Diego, CA.
- 2006 **Song, H.** and Wenzel, J.W. Systematics of Cyrtacanthacridinae (Orthoptera: Acrididae) and the evolution of locust phase polyphenism. The Willi Hennig Society, Oaxaca, Mexico.
- 2006 **Song, H.** Phylogeny of Cyrtacanthacridinae (Orthoptera: Acrididae) and the evolution of locust phase polyphenism. Entomological Society of America Annual Meeting, Indianapolis, IN.
- 2003 **Song, H.** Where did the desert locust come from? - Insight from a phylogenetic study. The Willi Hennig Society, New York Botanical Garden, NY.
- 2002 **Song, H.** Morphological phylogeny of *Schistocerca* Stål (Orthoptera: Acrididae: Cyrtacanthacridinae) – The origin of *Schistocerca gregaria*. Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.
- 2000 **Song, H.** Development of male genitalia in relation to the phylogeny of North American *Schistocerca* (Orthoptera: Acrididae: Cyrtacanthacridinae). Entomological Society of America Annual Meeting, San Diego, CA.
- 2000 **Song, H.** Phylogenetic relationships of North American *Schistocerca* (Orthoptera: Acrididae: Cyrtacanthacridinae) and problems with current taxonomy. International Conference on Orthopteroid Insects, 8th Meeting of the Orthopterists' Society, Montpellier, France.

PRESENTATIONS CONTRIBUTED BY STUDENT ADVISEES

(Undergraduate students^U and graduate students^G under my supervision are underlined with appropriate superscripts, and **my name** in in bold.)

- 2020 Foquet, B.^G, Castellanos, A.A., and **Song, H.** Insights into the evolution and molecular underpinnings of locust phase polyphenism. Entomological Society of America Annual Meeting (virtual)
- 2020 Woller, D.A.^G and **Song, H.** Exploring sexy new frontiers of functional morphology...in 3D!!! (Orthoptera: Acrididae). Entomological Society of America Annual Meeting (virtual)
- 2019 Medina-Durán, J.H.^G, Mayén-Estrada, R., Mariño-Pérez, R.^G, and **Song, H.** Description of two new species of eugarines (Apicomplexa: Eugregarinorida) parasitizing the gut of *Taeniopoda centurio* (Orthoptera: Caelifera: Romaleidae). Entomological Society of America Annual Meeting, St. Louis, MO.
- 2019 Foquet, B.^G, Little, D.^U, Poot Pech, M., and **Song, H.** Process of gregarization and solitarization of the Central American locust (*Schistocerca piceifrons*) in the lab and in the field. Entomological Society of America Annual Meeting, St. Louis, MO.
- 2019 Hoang, T.^G, Foquet, B.^G, and **Song, H.** Quantifying differences in phase polyphenism in *Schistocerca nitens*, *S. serialis cubense*, *S. americana*, and *S. piceifrons*. Entomological Society of America Annual Meeting, St. Louis, MO.
- 2019 Little, D.^U, Foquet, B.^G, and **Song, H.** Analysis of stimulus in the phase-related behavior of *Schistocerca piceifrons*. Entomological Society of America Annual Meeting, St. Louis, MO. [2nd place winner]
- 2019 Medina-Durán, J.H.^G, Mayén-Estrada, R., Mariño-Pérez, R.^G, and **Song, H.** Notes on the morphology and phylogenetic position of two new species parasitizing the Mexican lubber grasshopper *Taeniopoda centurio*. 13th International Congress of Orthopterology, Agadir, Morocco.
- 2019 Yang, L., Nitin R., Mariño-Pérez, R.^G, Deshmukh, R., Kunte, K., **Song, H.**, Andolfatto, P. Cardenolide insensitivity evolution in Pyrgomorphidae. 13th International Congress of Orthopterology, Agadir, Morocco.
- 2019 Foquet, B.^G, Little, D.^U, Poot Pech, M., and **Song, H.** Process of gregarization and solitarization of the Central American locust (*Schistocerca piceifrons*) in the lab and in the field. 13th International Congress of Orthopterology, Agadir, Morocco. [poster]
- 2019 Foquet, B.^G and **Song, H.** A comparative study of behavioral, morphological, and molecular reaction norms of locust phase polyphenism. 13th International Congress of Orthopterology, Agadir, Morocco.

- 2019 Foquet, B.^G and **Song, H.** A comparative study of behavioral, morphological, and molecular reaction norms of locust phase polyphenism. The Society for Integrative & Comparative Biology Annual Meeting, Tampa, FL.
- 2018 Little, D.W.^U, Foquet, B.^G and **Song, H.** Analysis of phase-related behavior in the locust *Schistocerca piceifrons* (Orthoptera: Acrididae: Cyrtacanthacridinae). Entomological Society of America Annual Meeting, Vancouver, Canada.
- 2018 Foquet, B.^G and **Song, H.** Density-dependent phase polyphenism in a phylogenetic framework: Insights from behavioral, morphological, and molecular data in a locust and related non-swarming grasshoppers (Orthoptera: Acrididae: Cyrtacanthacridinae). Entomological Society of America Annual Meeting, Vancouver, Canada.
- 2018 Mariño-Pérez, R.^G and **Song, H.** Phylogeny-based natural classification of the family Pyrgomorphidae (Orthoptera: Caelifera). Entomological Society of America Annual Meeting, Vancouver, Canada.
- 2018 De Loera, C.^U, Otte, D. and **Song, H.** Taxonomy and diversity of little-known South African grasshopper genus *Eremidium* (Orthoptera: Lentulidae). Entomological Society of America Annual Meeting, Vancouver, Canada.
- 2017 Kilpatrick, S.^U, Foquet, B.^G, Little, D.^U, Gotham, S. and **Song, H.** Density-dependent phenotypic plasticity of non-swarming *Schistocerca* (Orthoptera: Acrididae). Entomological Society of America Annual Meeting, Denver, CO.
- 2017 Selking, R.^G and **Song, H.** Using radio telemetry to understand leaf masquerading behavior in *Mimetica* Pictet, 1888. Entomological Society of America Annual Meeting, Denver, CO.
- 2017 Mariño-Pérez, R.^G and **Song, H.** An illustrated key to the Pyrgomorphidae genera of the world (Orthoptera: Caelifera). Entomological Society of America Annual Meeting, Denver, CO. (2nd place)
- 2017 Woller, D.A.^G and **Song, H.** An evolutionary retrospective of the *Melanoplus* Puer group (Orthoptera: Acrididae). Entomological Society of America Annual Meeting, Denver, CO.
- 2017 Foquet, B.^G and **Song, H.** Revealing the molecular architecture of locust phase polyphenism using RNAi on the Central-American locust (*Schistocerca piceifrons*) and non-swarming relatives. Entomological Society of America Annual Meeting, Denver, CO.
- 2017 Sanabria-Urban, O.S.^V, **Song, H.**, Oyama, K. and Cueva del Castillo, R. Diversification patterns in neotropical grasshoppers: The case of the genus *Sphenarium* (Orthoptera: Pyrgomorphidae). Entomological Society of America Annual Meeting, Denver, CO.
- 2017 Pocco, M.E.^V, Guzmán, N., Confalonieri, V., **Song, H.** and Cigliano, M.M. Insights into the evolutionary history of the neotropical Romaleinae (Acridoidea, Orthoptera). Entomological Society of America Annual Meeting, Denver, CO.
- 2017 Mariño-Pérez, R.^G and **Song, H.** Compounding effects of ancient diversification and morphological convergence: A case study based on Pyrgomorphidae (Orthoptera: Caelifera). VIIIth Dresden Meeting on Insect Phylogeny, Dresden, Germany.
- 2017 Kilpatrick, S.^U and **Song, H.** Density-dependent phenotypic plasticity of *Schistocerca lineata* Scudder, 1899 (Orthoptera: Acrididae). Texas A&M University Ecological Integration Symposium. (1st place Undergraduate Oral Presentation)
- 2016 Mariño-Pérez, R.^G and **Song, H.** Current knowledge of Pyrgomorphidae systematics using morphological and molecular data. 12th International Congress of Orthopterology, Ilhéus, Brazil.
- 2016 Woller, D.A.^G and **Song, H.** Expanding the boundaries of the new morphological frontier: exploring functionality in 3D (Orthoptera: Acrididae: Melanoplus Puer Group). 12th International Congress of Orthopterology, Ilhéus, Brazil.
- 2016 Foquet, B.^G and **Song, H.** *De novo* transcriptomic analysis of density-dependent phase plasticity in a locust species (*Schistocerca piceifrons*) and two closely related non-swarming grasshoppers. International Congress of Entomology (ICE2016), Orlando, FL.
- 2016 Mariño-Pérez, R.^G and **Song, H.** Towards a comprehensive knowledge of Pyrgomorphidae (Orthoptera: Caelifera) systematics. International Congress of Entomology (ICE2016), Orlando, FL.

- 2016 Raszick, T.J.^G and **Song, H.** Transcriptomic profiling of the chemosensory organs in grasshoppers with diverse feeding strategies. International Congress of Entomology (ICE2016), Orlando, FL.
- 2016 Woller, D.A.^G and **Song, H.** Like blood from that stone we always hear about: A quest to extract meaningful data from historical grasshopper specimens. International Congress of Entomology (ICE2016), Orlando, FL.
- 2016 Woller, D.A.^G and **Song, H.** Resolving relationships of the scrub-lovin' grasshoppers of the southeastern U.S.A. (Orthoptera: Acrididae: *Melanoplus*: The Puer Group). Entomological Society of America Southeastern Branch Meeting, NC.
- 2016 Woller, D.A.^G and **Song, H.** Exploring the sexy frontiers of functional morphology...in 3D!!! (Orthoptera: Acrididae: *Melanoplus rotundipennis*). Entomological Society of America Southwestern Branch Meeting, TX. (1st place)
- 2015 Woller, D.A.^G and **Song, H.** The scrub-lovin' grasshoppers (Orthoptera: Acrididae: *Melanoplus*: The Puer Group) of the southeastern U.S.: integrating specimen data from then and now for maximum effect. Society for the Preservation of Natural History Collections conference, FL, iDigBio Symposium: "Collections Full Circle"
- 2015 Mariño-Pérez, R.^G and **Song, H.** On the origin of New World Pyrgomorphidae. Entomological Society of America Annual Meeting, Minneapolis, MN.
- 2015 Woller, D.A.^G and **Song, H.** The phylogeography of an intriguing group of xerophile grasshoppers (Acrididae: *Melanoplus*: The Puer Group). Entomological Society of America Annual Meeting, Minneapolis, MN.
- 2015 Woller, D.A.^G and **Song, H.** Solving (phallic) complex problems (Acrididae: *Melanoplus*: The Puer Group). Entomological Society of America Annual Meeting, Minneapolis, MN.
- 2015 Raszick, T.J.^G, Corso, G., Sword, G.A. and **Song, H.** What's happening in hoppers: Explorations of the acridid alimentary canal. Entomological Society of America Annual Meeting, Minneapolis, MN.
- 2014 Avecilla, G.^U and **Song, H.** Differential gene expression of heat shock proteins in crowded and isolated *Schistocerca americana*. Entomological Society of America Annual Meeting, Portland, OR.
- 2014 Noh, J.^U and **Song, H.** A comparative study of aposematic coloration in central Florida beetles. Entomological Society of America Annual Meeting, Portland, OR.
- 2014 Gale, C.^U and **Song, H.** Chemical ecology of the Florida rosemary grasshopper, *Schistocerca ceratiola*. Entomological Society of America Annual Meeting, Portland, OR.
- 2014 Woller, D.A.^G and **Song, H.** Unraveling phallic complexities in scrub-lovin' grasshoppers: Does shape matter? (Acrididae: *Melanoplus*: The Puer Group). Entomological Society of America Annual Meeting, Portland, OR. (poster presentation)
- 2014 Woller, D.A.^G and **Song, H.** Scrub-lovin' hoppers: a speciation tale of ancient islands, an absence of flight, and rapidly evolving phalli (Orthoptera: Acrididae: *Melanoplus*: The Puer Group). Entomological Society of America Annual Meeting, Portland, OR.
- 2014 Gotham, S.E.^G and **Song, H.** Differential gene expression of density-dependent phenotypic plasticity in *Schistocerca americana* (Orthoptera: Acrididae). Entomological Society of America Annual Meeting, Portland, OR.
- 2014 Mariño-Pérez, R.^G and **Song, H.** Preliminary study of aposematic coloration and mid-dorsal abdominal glands in Pyrgomorphidae (Orthoptera: Caelifera). Entomological Society of America Annual Meeting, Portland, OR.
- 2014 Avecilla, G.^U and **Song, H.** Differential gene expression of heat shock proteins in crowded versus isolated *Schistocerca americana*. UCF Showcase of Undergraduate Research Excellence. (poster presentation)
- 2014 Noh, J.^U and **Song, H.** A comparative phylogenetic and life history trait study of aposematic Coleoptera on a community level. UCF Showcase of Undergraduate Research Excellence. (poster presentation)
- 2014 Gale, C.^U, Harper, J. and **Song, H.** Puke, blood, and allelopathic chemicals: Chemical ecology of the Florida rosemary grasshopper. Southeastern Ecology and Evolution Conference (SEEC), Georgia Southern University, GA. (poster presentation, Best Undergraduate Talk Award)

- 2013 Gale, C.^U, Harper, J. and **Song, H.** Puke, blood, and allelopathic chemicals: Chemical ecology of the Florida rosemary grasshopper. Entomological Society of America Annual Meeting, Austin, TX.
- 2013 Gotham, S.E.^G and **Song, H.** Differential gene expression of density-dependent phenotypic plasticity in *Schistocerca americana* (Orthoptera: Acrididae). Entomological Society of America Annual Meeting, Austin, TX.
- 2013 Raszick, T.J.^G and **Song, H.** Microbial community structure in a host-associated grasshopper. Entomological Society of America Annual Meeting, Austin, TX.
- 2013 Mariño-Pérez, R.^G and **Song, H.** Wing evolution in Pyrgomorphidae. Entomological Society of America Annual Meeting, Austin, TX.
- 2013 Woller, D.A.^G and **Song, H.** Peeling back the layers of male genitalia (and its evolution) of a unique group of scrub-lovin', wingless grasshoppers in the southeastern U.S. Entomological Society of America Annual Meeting, Austin, TX.
- 2013 Mariño-Pérez, R.^G and **Song, H.** Systematics of Pyrgomorphidae. International Congress of Orthopterology, Kunming, China.
- 2013 Woller, D.A.^G and **Song, H.** An ancient ecosystem speaks volumes: analyzing speciation events in scrub islands of the southeastern U.S. via their endemics: *Melanoplus* grasshoppers belonging to the Puer Group. International Congress of Orthopterology, Kunming, China.
- 2013 Woller, D.A.^G and **Song, H.** What an ancient ecosystem can tell us: scrub islands of the southeastern U.S. and their endemics, *Melanoplus* (Orthoptera: Acrididae: Melanoplineae) grasshoppers belonging to the Puer Group. Southeastern Ecology and Evolution Conference, University of Central Florida, FL. (poster presentation)
- 2012 Kumar, S.^G and **Song, H.** Evolution of juvenile hormone esterase in insects. Entomological Society of America Annual Meeting, Knoxville, TN.
- 2012 Raszick, T.J.^G and **Song, H.** Mosaic pattern of character evolution in *Schistocerca lineata*. Entomological Society of America Annual Meeting, Knoxville, TN.
- 2012 Gotham, S.E.^G and **Song, H.** Density-dependent phenotypic plasticity in birdwing grasshoppers, *Schistocerca americana* (Drury) and *S. serialis cubense* (Saussure) (Orthoptera: Acrididae: Cyrtacanthacridinae). Entomological Society of America Annual Meeting, Knoxville, TN.
- 2012 Woller, D.A.^G and **Song, H.** What an ancient ecosystem can tell us: scrub islands of the southeastern U.S. and their endemic grasshoppers within the *Melanoplus* Puer Group (Orthoptera: Acrididae: Melanoplineae). Entomological Society of America Annual Meeting, Knoxville, TN.
- 2012 Mariño-Pérez, R.^G and **Song, H.** A preliminary phylogeny of Pyrgomorphidae (Orthoptera: Caelifera) based on morphological characters. Entomological Society of America Annual Meeting, Knoxville, TN.
- 2012 Mugleston, J.D.^G, **Song, H.**, and Whiting, M.F. Trees, leaves, and lobes: Katydid (Orthoptera: Tettigoniidae) phylogenetics, leaf-like wings, and external ear morphology. Entomological Society of America Annual Meeting, Knoxville, TN.
- 2012 Mariño-Pérez, R.^G and **Song, H.** A preliminary phylogeny of Pyrgomorphidae (Orthoptera: Caelifera) based on morphological characters. International Congress of Entomology (ICE2012), Daegu, Korea.
- 2012 Gotham, S.E.^U and **Song, H.** Density-dependent phenotypic plasticity in *Schistocerca americana* and *S. keys* (Orthoptera: Acrididae). UCF Showcase of Undergraduate Research Excellence. (poster presentation; Honorable Mention Award)
- 2012 Alava, G.^U, Mariño-Pérez, R.^G, and **Song, H.** Chapulines: Phylogeny and biogeography of a grasshopper subfamily Melanoplineae (Orthoptera: Acrididae). UCF Showcase of Undergraduate Research Excellence. (poster presentation)
- 2012 Kumar, S.^G, Ganji, P.C.N., **Song, H.**, von Kalm, L., and Borst, D.W. siRNA-mediated down-regulation of hexamerins suppresses reproduction and feeding in the lubber grasshopper *Romalea microptera*. Society for Integrative and Comparative Biology Annual Meeting. Charleston, SC.
- 2011 Gotham, S.E.^U and **Song, H.** Density-dependent phenotypic plasticity in *Schistocerca americana*. Entomological Society of America Annual Meeting, Reno, NV.

- 2011 Kumar, S.^G, Ganji, P.C.N., **Song, H.**, von Kalm, L., and Borst, D.W. Influence of enkephalins on gonad development in eastern lubber grasshopper *Romalea microptera* (Orthoptera: Romaleidae). Entomological Society of America Annual Meeting, Reno, NV.
- 2011 Raszick, T.J.^G and **Song, H.** Phylogeographic relationships of regional ecotypes in *Schistocerca lineata*. Entomological Society of America Annual Meeting, Reno, NV.
- 2011 Mugleston, J.D.^G, **Song, H.**, and Whiting, M.F. A molecular phylogeny of the family Tettigoniidae (Orthoptera: Ensifera). Entomological Society of America Annual Meeting, Reno, NV.
- 2011 Leavitt, J.R.^U, Hiatt, K.D.^U, **Song, H.**, and Whiting, M.F. Are past phallic phylogenies of Acridoidea fallacies? Entomological Society of America Annual Meeting, Reno, NV.
- 2011 Gotham, S.E.^U and **Song, H.** A molecular phylogeny of lubber grasshopper family Romaleidae (Orthoptera). UCF Showcase of Undergraduate Research Excellence.
- 2010 Leavitt, J.R.^U, Hiatt, K.D.^U, **Song, H.**, and Whiting, M.F. Hopping towards a robust hypothesis: Phylogeny of Caelifera based on entire mitochondrial genomes. Entomological Society of America Annual Meeting, San Diego, CA. (First place in the Undergraduate Student TMP Competition)
- 2010 Mugleston, J.D.^G, **Song, H.**, and Whiting, M.F. A molecular phylogeny of the family Tettigoniidae (Orthoptera: Ensifera). Entomological Society of America Annual Meeting, San Diego, CA.
- 2010 Jensen, J.^U, Mugleston, J.D.^G, Hiatt, K.D.^U, **Song, H.**, and Whiting, M.F. Deep-level phylogeny of Ensifera (Orthoptera) based on molecular data. Entomological Society of America Annual Meeting, San Diego, CA.
- 2010 Johnson, K.K.^U, Moulton, M.J.^U, **Song, H.**, Whiting, M.F. A broad-scale survey of nuclear mitochondrial pseudogenes from Orthoptera (Insecta). Entomological Society of America Annual Meeting, San Diego, CA.
- 2009 Moulton, M.J.^U, **Song, H.**, Whiting, M.F. Assessing the effects of primer specificity on eliminating numt contamination in DNA barcoding. Entomological Society of America Annual Meeting, Indianapolis, IN.
- 2009 Mugleston, J.D.^G, **Song, H.**, Whiting, M.F. Evolution of katydids, a preliminary molecular phylogeny of the family Tettigoniidae (Orthoptera: Ensifera). Entomological Society of America Annual Meeting, Indianapolis, IN.
- 2009 Hiatt, K.D.^U, **Song, H.**, and Whiting, M.F. Higher-level phylogeny of Caelifera (Orthoptera) based on mitochondrial genome data. Entomological Society of America Annual Meeting, Indianapolis, IN.
- 2009 Buckman, R.^U and **Song, H.** Cuticular ultrastructure development in male genitalia of *Schistocerca americana* (Orthoptera: Acrididae: Cyrtacanthacridinae) during teneral period. Entomological Society of America Annual Meeting, Indianapolis, IN.
- 2008 Moulton, M.J.^U, **Song, H.**, Whiting, M.F. Assessing the effects of primer specificity on eliminating numt contamination in DNA barcoding. Entomological Society of America Annual Meeting, Reno, NV.
- 2008 Jensen, D.^U, **Song, H.**, Whiting, M.F. Evolution of katydids, a preliminary molecular phylogeny of the family Tettigoniidae (Orthoptera: Ensifera). Entomological Society of America Annual Meeting, Reno, NV.

FIELD EXPEDITIONS

- Southeastern U.S. (TX, MS, AL, FL). August 1-10, 2021.
- Australia, ACT, NSW, QLD. November 15 – November 28, 2019.
- South Africa, KwaZulu-Natal and Eastern Cape. Namibia. November 26 – December 20, 2018.
- South Africa, KwaZulu-Natal. November 26 – December 14, 2017.
- Costa Rica. July 31 - August 13, 2016; January 3-13, 2017.
- Yucatan, Campeche, Quintana Roo, Mexico. October 3-18, 2015.
- Yucatan, Mexico. October 15-21, 2014.
- Dominican Republic. June 10-18, 2014.

- U.S. Virgin Islands, St. John. July 8-18, 2013.
- Australia (New South Wales, Victoria, ACT). January - February, 2013.
- Texas, Oklahoma, Colorado. July 7-20, 2011.
- Florida Keys. January, 2011.
- Australia (Western Australia). August 22-September 17, 2009.
- South Africa (Western Cape, Eastern Cape). February 4-26, 2009.
- Papua New Guinea (New Britain, New Ireland). July 17-August 3, 2008.
- Socorro Island, Mexico. October 14-November 10, 2004.
- Utah, Colorado, Oklahoma, Kansas. July 5-23, 2004.
- South Carolina. March 22-25, 2004.
- Arizona. September 2-7, 2002.
- Florida. August 1-9, 2002.

MUSEUM RESEARCH

- Florida State Collection of Arthropods. May, 2011.
- California Academy of Sciences, Department of Entomology. December, 2009.
- Australian National Insect Collection, CSIRO, Canberra, Australia. August, 2009; January, 2013; January-March 2020.
- Western Australia Museum, Perth, Australia. August, 2009.
- Muséum National d'Histoire Naturelle, Département Systématique et Evolution. March-April, 2009.
- National Institute of Biological Resources, Incheon, Korea. January, 2009.
- British Museum of Natural History, Department of Entomology. August, 2003; April, 2009.
- Academy of Natural Sciences at Philadelphia, Department of Entomology. March, 2003; October, 2008; June, 2013; June, 2018.
- Hope Museum of Entomology, Oxford University. August, 2003.
- American Museum of Natural History. July, 2003.
- The Ohio State University, Insect Collection. 2000-2006.
- Numerous visits to University of Michigan Museum of Zoology. 2001-2006.

PROFESSIONAL DEVELOPMENT IN RESEARCH

- **IACUC Training**
Basics and Writing a Successful IACUC Protocol – Wild Life Studies. September, 2012.
- **Laboratory Safety Training**
Department of Environmental Health and Safety, University of Central Florida. December, 2012.
- **NSF CAREER Grant: Proposal Writing Workshop**
UCF Office of Research & Commercialization. January 26, 2012.
- **UCF COS New Tenure-Track Assistant Professor Program.** August 2011-April 2012.
- **ORC Research Development Workshops For STEM Faculty**
Building a Budget, Indirect Costs, Subcontracts, and Matching Funds. January 11, 2011.

MEDIA COVERAGE OF RESEARCH

- *Bizarre Beasts*, [“The Strange Thing That Turns Grasshoppers Into Locusts”](#). March 4, 2022.
- *Inverse*, [“NETFLIX’S BLOODIEST SCI-FI THRILLER OF 2021 REVEALS A REAL-LIFE MONSTER”](#) by Tara Yarlaga. August 12, 2021.
- *Chemistry & Industry*, [“Plague of locusts”](#) by Anthony King. C&I Issue 11, 2020.

- *AgriLife Today*, "[Research shows insects evolved pathways for acoustic communication](#)" by Adam Russell. October 6, 2020.
- *Behind the Paper at Nature Ecology and Evolution Community*, "[Transcriptomes, fossils and singing insects](#)" by Hojun Song, Sabrina Simon, Olivier Bethoux, Seungwan Shin, Benjamin Wipfler, Bernhard Misof, and Xin Zhou
- *AgriLife Today*, "[New institute to study behavioral plasticity in locusts](#)" by Olga Kuchment. October 1, 2020.
- *Forbes*, "[What's Up With Those Locust Swarms?](#)" by Sara Tabin. June 12, 2020.
- *Mashable*, "[How this big locust plague will end](#)" by Mark Kaufman. May 20, 2020.
- *Vox*, "[The other plague: Locusts are devouring crops in East Africa and the Middle East](#)" by Umair Irfan and Jen Kirby. May 20, 2020.
- *AgriLife Today*, "[Study abroad trip to Costa Rica leads to new king cricket species discovery](#)". October 3, 2019.
- *Entomology Today*, "[Swarm shift: How locusts switch phases when numbers swell](#)" by Ed Ricciuti. September 4, 2019.
- *Discover Magazine*, "[How Grasshoppers Hopped Around The World](#)" by Mark Barna. August 23, 2018.
- *Entomology Today*, "[Rise of the Grasshoppers: New analysis redraws evolutionary tree for Acrididae family](#)". July, 2018.
- *Research Features*, "[Locust swarms: the evolution of a powerful force of nature](#)". June 30, 2017.
- *Entomology Today*, "[Functions of Grasshopper Genitalia Revealed, in 3D, Via Correlative Microscopy](#)". April 4, 2017.
- *Entomology Today* (<http://entomologytoday.org/2014/05/09/new-colorful-grasshopper-discovered-in-mexico-named-after-singer-lila-downs/>) May, 2014.
- *UCF COSNEWS* (<http://news.cos.ucf.edu/grammy-winning-grasshopper/>) May, 2014.
- *UCF Today*, (<https://today.ucf.edu/ucf-shares-a-love-of-bugs-with-young-children/>) October, 2013.
- *UCF COSNEWS*, (<http://news.cos.ucf.edu/dr-hojun-song/>) August, 2013.
- *NSF Discoveries*, "Controlling Destructive Locusts by Manipulating Their Genetics" (http://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=128529&org=NSF) June, 2013.
- *Central Florida Future*, "Out of the closet" by Daniela Torres. November 5, 2012.
- *Pegasus*, "The BIG Issue" (<http://pegasus.ucf.edu/story/big-picture>). Summer 2012.
- *UCF COSNEWS*, "Bug Closet" (<http://news.cos.ucf.edu/?p=673>). 2011.
- *WKMG Local 6 news*, on-camera interview on "Texas Phoenix Palm Decline." Aired on August 31, 2011
- *BYU-Hawaii News*, "Papua New Guinea to Provo: Biology students participate in mentoring program" by Leilani Miller (<http://newsroom.byuh.edu/?q=node/2243>). 2009.
- *Scientific American*, "When grasshoppers go biblical: Serotonin causes locusts to swarm" by Katherine Harmon (<http://www.sciam.com/article.cfm?id=when-grasshoppers-go-bibl>). 2009.
- *NSF Press Release*, "DNA barcodes: Are they always accurate?" (http://www.nsf.gov/news/news_summ.jsp?cntn_id=112113). 2008.
- *Deseret News*, "Y. scientists leery of "barcoding" life" by James Thalman (<http://deseretnews.com/article/1,5143,700255376,00.html>). 2008.
- *History Channel*, Scientific consultant and interviewee for "Mega Disasters: Super Swarms" (aired on Nov. 6, 2007).
- *Science News*, "Locust Upset: DNA puts swarmer's origin in Africa" by Susan Milius (Vol. 169, No. 1, Jan. 7, 2006, p. 5.). 2006.
- *National Geographic News*, "Ancient Locust Swarm Crossed the Atlantic, Study Says" by Stefan Lovgren (http://news.nationalgeographic.com/news/2005/12/1228_051228_locusts.html). 2005.
- *Wissenschaft*, "Biblische Heuschreckenplage kam aus Amerika" by Ilka Lehnen-Beyel (<http://www.wissenschaft.de/wissen/news/241709.html>). 2004.

TEACHING

EDUCATION-RELATED GRANTS AND AWARDS

- 2018-2021 Global Engagement Grants, Office of the Provost, Texas A&M University. *The Costa Rican Core Semester: A sustainable, high-impact learning experience at the Soltis Center for Research and Education*. (PI: D.J. Brightsmith, Co-PI: J. Flaherty, E. Gonzalez, R. Vargas, J. Whitfield, C. Coates, **H. Song**, M. Mateos, C. Arcak) (\$80,000)
- 2016-2017 Neuhaus-Shepardson Faculty Development Grants, College of Agriculture and Life Sciences, Texas A&M University (\$2,000 + departmental match \$1,000). *For developing a study-abroad course at the Soltis Center, Costa Rica.*

COURSES TAUGHT AT TEXAS A&M UNIVERSITY

- 2022 ENTO301: Biodiversity and Biology of Insects (4 credits). Spring semester.
- 2021 ENTO301: Biodiversity and Biology of Insects (4 credits). Spring semester.
- 2021 ENTO601: Principles of Systematic Entomology (3 credits). Spring semester.
- 2020 ENTO627: Insect Behavior and Natural History (3 credits). Fall semester.
- 2019 ENTO455: Field Entomology in the Tropics (3 credits). Study Abroad in Costa Rica (co-taught with Spencer Behmer). Summer.
- 2019 EEBL606: Phylogeny and Comparative Biology module (1 credit). Spring semester.
- 2019 ENTO301: Biodiversity and Biology of Insects (4 credits). Spring semester.
- 2018 ENTO689: Special Topics in Professional Grant and Contract Writing (co-taught with J. Rangel) (3 credits). Fall semester.
- 2018 ENTO689: Special Topics in Insect Behavior and Natural History (3 credits). Fall semester.
- 2018 ENTO489: Special Topics in Field Entomology in the Tropics (3 credits). Study Abroad in Costa Rica (co-taught with Spencer Behmer). Summer.
- 2018 ENTO301: Biodiversity and Biology of Insects (4 credits). Spring semester.
- 2018 ENTO601: Principles of Systematic Entomology (3 credits). Spring semester.
- 2018 EEBL606: Phylogeny and Comparative Biology module (1 credit). Spring semester.
- 2017 ENTO489: Special Topics in Field Entomology in the Tropics (4 credits). Study Abroad in Costa Rica. Summer.
- 2017 ENTO301: Biodiversity and Biology of Insects (4 credits). Spring semester.
- 2016 ENTO689: Special Topics in Professional Grant and Contract Writing (co-taught with J. Rangel) (3 credits). Fall semester.
- 2016 ENTO689: Special Topics in Insect Behavior and Natural History (3 credits). Fall semester.
- 2016 ENTO301: Biodiversity and Biology of Insects (4 credits). Spring semester.

COURSES TAUGHT AT THE UNIVERSITY OF CENTRAL FLORIDA

- 2014 ENY 4004C/5006C: General Entomology. Fall semester.
- 2014 BSC 2011C: Introductory Biology II. Spring semester.
- 2013 ENY 4004C/5006C: General Entomology (Fully revised course, integrating service-learning component). Fall semester.
- 2013 BSC 3930: Integrative Biology (Newly developed course as a part of CAREER award). Summer A.
- 2013 BSC 2011C: Introductory Biology II. Spring semester.
- 2012 BSC 5927: Phylogenetic Approaches in Biological Research (Newly developed graduate-level course). Fall semester.
- 2012 BSC 2011C: Introductory Biology II (New lecture material prepared for Summer session). Summer A.
- 2012 BSC 2011C: Introductory Biology II. Spring semester.

- 2011 ENY 4004C/5006C: General Entomology (Newly developed mixed-level course). Fall semester.
- 2011 BSC 6935/PCB 7052: Graduate Seminar. Fall semester.
- 2011 BSC 2011C: Introductory Biology II (New lecture material). Spring semester.

EDUCATIONAL WORKSHOP HELD AT THE UNIVERSITY OF CENTRAL FLORIDA

- 2011 NSF-Sponsored Summer Research Experiences in Systematic Entomology (Specifically designed for minority undergraduate students). Summer A.

POSTDOCTORAL SCHOLARS SUPERVISED

- Seema Rana. Funded by USDA PPA 7721 (2021-2023)
- Maeva Techer. Funded by NSF Behavioral Plasticity Research Institute (2021-2025)

GRADUATE STUDENTS SUPERVISED (Chair or Co-Chair)

- Ph.D. Vivian Peralta Santana. 2021-present [TAMU EEB].
- Ph.D. Alyssa Canova. 2021-present [TAMU ENTO].
- Ph.D. Brandon Woo. 2021-present [TAMU ENTO].
- M.S. Carla DeLoera. 2021-present [TAMU ENTO].
- Ph.D. Miriel Otero Arocho. “Evolution of ecomorph convergence in grasshoppers.” 2020-present [TAMU ENTO].
- Ph.D. Jorge Humberto Medina-Durán. “Coevolution between protozoan parasites and orthopteran hosts.” 2019-present [TAMU EEB].
- M.S. Toan Hoang. “Development of RNAi silencing in the Mormon cricket (*Anabrus simplex*).” 2018-2020 [TAMU EEB].
- M.S. Ryan T. Selking. Non-thesis. 2016-2018 [TAMU ENTO].
- Ph.D. Bert Foquet. “Locust phase polyphenism in a phylogenetic framework: From gene expression to behavioral changes.” 2016-2020 [TAMU ENTO].
- Ph.D. Sandeep Kumar. “Reproductive physiology of the Eastern lubber grasshopper *Romalea microptera* (Orthoptera: Romaleidae).” 2010-2016. [UCF, co-advised with L. von Kalm]
- Ph.D. Ricardo Mariño-Pérez. “Phylogenetic systematics and evolution of the gaudy grasshopper family Pyrgomorphidae (Insecta: Orthoptera).” 2011-2018 [UCF-TAMU ENTO].
- Ph.D. Derek A. Woller. “The land-locked archipelagos of the southeastern U.S. as a laboratory for examining the evolution of scrub-lovin’ flightless grasshoppers (Acrididae: *Melanoplus*: The Puer Group).” 2011-2017 [UCF, TAMU ENTO].
- M.S. Steve Gotham. “A time-course analysis of behavioral plasticity and differential gene expression patterns in response to density in *Schistocerca americana* (Orthoptera: Acrididae).” 2012-2014 [UCF].
- M.S. Tyler J. Raszick. “Character evolution and microbial community structure in a host-associated grasshopper.” 2011-2014 [UCF].

GRADUATE STUDENT COMMITTEES

- Ph.D. Rachel Vargas. Department of Biology, University of Texas Arlington (Advisor: Dr. Alison Ravenscraft) 2022-present.
- Ph.D. Jordan Solomon. EEB, TAMU (Advisor: Dr. Sarah Hamer). 2020-present.
- M.S. Amy Dickerson. Department of Entomology, TAMU (Advisor: Dr. Jeff Tomberlin). 2020-present.
- Ph.D. James Peterson. Department of Rangeland, Wildlife, and Fisheries Management, TAMU (Advisor: Dr. Roel Lopez). 2020-present.

- Ph.D. Jordan Twombly Ellis. Department of Entomology, TAMU (Advisor: Dr. Juliana Rangel). 2019-present.
- Ph.D. Joseph Y. Sweeney. Department of Biodiversity, Earth & Environmental Science, Drexel University (Advisors: Dr. Jon Gelhaus and Dr. Daniel Otte). 2019-2020.
- Ph.D. Daniel J. De Jesús. Ecology and Evolutionary Biology Program, TAMU (Advisor: Dr. Mary Wicksten). 2019-present.
- M.S. Samuel Howard. Department of Entomology, TAMU (Advisor: Dr. John Oswald). 2018-present.
- Ph.D. Devin Preston. Department of Biological Sciences, University of New Orleans (Advisor: Dr. Steven Johnson). 2017-2020.
- M.S. Amanda Pinion. Department of Wildlife and Fisheries Sciences, TAMU (Advisor: Dr. Kevin Conway). 2017-present.
- Ph.D. Phillip Shults. Department of Entomology, TAMU (Advisor: Dr. Ed Vargo). 2016-present.
- Ph.D. Aline Spindola. Department of Entomology, TAMU (Advisor: Dr. Jeff Tomberlin). 2016-2019.
- Ph.D. Karen Wright. Department of Biology, University of New Mexico (Advisor: Dr. Kelly Miller). 2016-2018.
- Ph.D. Tyler Raszick. Department of Entomology, TAMU (Advisor: Dr. Greg Sword). 2015-2018.
- M.S. Trevor Steele. Department of Entomology, TAMU (Advisor: Dr. Spencer Behmer). 2015-2017.
- Ph.D. Jason Strickland. Department of Biology, UCF (Advisor: Dr. Chris Parkinson). 2013-2015.
- M.S. Jason Hickson. Department of Biology, UCF (Advisor: Dr. Chris Parkinson). 2013-2015.
- M.S. Vincenz Coello. Department of Biology, UCF (Advisor: Dr. Joshua King). 2012-2015.
- M.S. Sandor L. Kelly. Department of Biology, UCF (Advisor: Dr. David Jenkins). 2010-2012.
- Ph.D. Ping Ge, Department of Computer Science, UCF (Advisor: Dr. Shaojie Zhang). 2012-2016.
- Ph.D. Joseph Mugleston, Department of Biology, Brigham Young University (Advisor: Dr. Michael F. Whiting). 2008-2016.

UNDERGRADUATE STUDENTS SUPERVISED

- Eliyashaib James (COALS REU Student). Summer 2022.
- Karen Scobee (Student Worker). 2021-present.
- Julianne Allred (Student Researcher). 2021-present.
- Tori Chou (Student Researcher). 2021-present.
- Jordan Moore (Student Researcher). 2021-present.
- Ramses Gutierrez (Student Researcher). 2021-present.
- Kayla Boyle (Student Researcher). 2021.
- Danielle Sherry (Student Researcher). 2021-present.
- Matthew Martinez (Student Researcher). 2021.
- Aubrey Rogers (Student Researcher). 2021-present.
- Bethany Mikles (Student Researcher). 2019-present.
- Myrah Rogers (Student Researcher). 2019-present.
- Brandon Woo (NSF REU, Cornell University). Summer 2019.
- Michael Curtis (Student Researcher). 2018-2019.
- Tyler Lowry (Student Researcher). 2018-2019.
- Samantha Franklin (NSF REU). Summer 2018.
- Carla De Loera (NSF REU). Summer 2018 - present.
- Aria Deluna (Student Researcher). 2017-2018.
- Nicholas Adams (Student Researcher). 2017-2018.
- Gabriel Contreras (Student Researcher). 2017-2018.
- Jonathan Koehl (Student Researcher). 2016.
- Charmelle Williams (Student Researcher). 2016-2018.

- Drew Little (Student Researcher, NSF REU). 2016-present.
- Quan Huynh (Student Researcher). 2016-2017.
- Lauren Yang (NSF student researcher). Summer 2016.
- Ryan Selking (Student Researcher). 2016.
- Shelby Kilpatrick (Student Researcher). 2016.
- Michael Riley (Student Researcher). 2015-2018.
- Ryan Ridenbaugh (Volunteer). 2014.
- Abby Hudak (Volunteer). 2014.
- Susannah Austin (Volunteer). 2014.
- Erin Barbeau (Volunteer). 2014.
- Andrew Lawrence (Volunteer). 2014.
- Ji-Min Noh (Federal Work Studies, UCF RAMP Scholar). 2013-2014.
- Grace Avequilla (National Merit Scholar, NSF REU). 2012-2014.
- Shiala Morales. 2012-present.
- Cody Gale (UCF RAMP Scholar, NSF REU). 2012-2014.
- Douglas Meadow. 2012-2013.
- Gabriella Alava (UCF-Work Force Central Florida). 2011-2014.
- Christine Bitzer-Jaffe (NSF REU). 2010-2012.
- Steve Gotham (UCF YES/RAMP Scholar). 2010-2012.
- Vinnie Coello (UCF-Work Force Central Florida). 2010-2011.
- Matthew Vicker (UCF EXCEL Scholar). 2011.
- Chantalle Maragh. 2011.
- Gabriella Alava, Chantalle Maragh, and Ojochide Shaibu. Summer 2011. (NSF-sponsored summer workshop for minority students)
- James Leavitt (BYU). 2010-2012.
- Corina DeLeon, Reshley Dalisay, and Kelsy Johnson (BYU). Summer 2010. (NSF-sponsored summer workshop for Polynesian students)
- Nathan Mahler (BYU). 2010.
- Daniel Kaonohi and Steven Young (BYU-Hawaii). Summer 2009. (NSF-sponsored summer workshop for Polynesian students)
- Kevin Hiatt (BYU). 2008-2009.
- Matthew Moulton (BYU). 2008-2009.
- Dana Jensen (BYU). 2006-2009.
- Nathan Sheffield (BYU). 2006-2008.
- Daniel Fenn (BYU). 2006-2008.

HIGH SCHOOL STUDENTS SUPERVISED

- Seth Yang (NSF RAHSS student). Summer 2016.

VISITING SCHOLARS HOSTED

- Sundus Zahid (Hazara University, Pakistan). October 2019-June 2020.
- Martina Pocco (Fulbright Scholar, CONICET, Argentina). September-December 2017.
- Daniela Santos (Universidade Federal de Viçosa, Brazil). April-May 2017.
- Rachel Slatyer (University of Melbourne, Australia). November 2014.
- Oscar Salmon Sanabria-Urban (UNAM, Mexico). June-December 2014, June-July 2016.
- Giselle Muschett (Macquarie University, Australia). September-October 2013.

- Rosaura Mayen-Estrada (UNAM, Mexico). October 2012.
- Paolo Fontana (Italy). July 2012.

PROFESSIONAL DEVELOPMENT IN TEACHING

- **TAMU Center for Teaching Excellence**, “A Culture of Mentoring Workshop series,” July-August 2020.
- **TAMU Center for Teaching Excellence**, “Course Syllabus 2016 Workshop”, January 2016.
- **TAMU Center for Teaching Excellence**, Summer Workshop Series, “Teaching Methods”, August 2015.
- **UCF Summer Faculty Development Conference**, May 2012.
Presented a poster on course improvement with Ken Fedorka, Will Crampton, and Gregg Klowden
- **UCF FCTL Spring Course Innovation Project**, Spring 2012. Successful Strategies for Improving STEM Courses. Developed a course innovation idea integrating service learning.
- **UCF Winter Faculty Development Conference**, December 2011. Presented a talk titled, “The Placement of Natural History Courses in Today’s Science Curriculum.”

SERVICE

PROFESSIONAL SOCIETAL LEADERSHIP

- **Governing Board Member**, Orthopterists' Society. 2009-present.
- **Past-President**, Systematics, Evolution, and Biodiversity Section, Entomological Society of America. 2015-2016.
- **President**, Systematics, Evolution, and Biodiversity Section, Entomological Society of America. 2014-2015.
- **Vice President**, Systematics, Evolution, and Biodiversity Section, Entomological Society of America. 2013-2014.
- **Vice President-Elect**, Systematics, Evolution, and Biodiversity Section, Entomological Society of America. 2012-2013.

PROFESSIONAL SOCIETAL MEETING ORGANIZATION

- **Scientific Committee Member**, 13th International Congress of Orthopterology, Agadir, Morocco, 2018-2019.
- **Scientific Committee Member**, 12th International Congress of Orthopterology, Ilheus, Brazil, 2015-2016.
- **Organizing Committee Member**, 2016 International Congress of Entomology. 2013-2016.
- **Program Committee Member**, 2015 Entomological Society of America. 2014-2015.
- **Program Committee Member**, 2014 Entomological Society of America. 2013-2014.
- **Executive Committee Member**, Central Florida Chapter, Korean-American Scientists and Engineers Association. 2011-2014.
- **Scientific Committee Member**, 11th International Congress of Orthopterology, 2013.
- **Symposium Moderator**, Entomological Society of America Annual Meeting. 2007-2008, 2012.
- **Student Competition Judge**, Entomological Society of America Annual Meeting. 2008, 2012.
- **Student Competition Moderator**, Entomological Society of America Annual Meeting. 2010, 2013.
- **Symposium Moderator**, 10th International Congress of Orthopterology. 2009.
- **Symposium Organizer**, Korean Young Entomologists (KYE), Entomological Society of America Annual Meeting. 2004-2009.
- **Symposium Organizer**, Entomological Society of America Annual Meeting. 2003-2005.

PROFESSIONAL EDITORIAL SERVICE

- **Co-Editor-in-Chief**, *Insect Systematics and Diversity*. 2022-present.
- **Editor-in-Chief**, *Insect Systematics and Evolution*. 2014-2021.
- **Subject Editor**, Orthoptera, *Zootaxa*. 2007-present.
- **Editorial Board Member**, *Journal of Orthoptera Research*. 2021-present.
- **Editorial Board Member**, *Insect Systematics and Evolution*. 2010-present.
- **Editorial Board Member**, *Insects*. 2020-present.
- **Editorial Board Member**, *Frontiers in Ecology and Evolution (Phylogenetics, Phylogenomics, and Systematics Section)*. 2013-present.
- **Editor**, *Metaleptea*, a newsletter of the Orthopterists' Society. 2009-present.
- **Associate Editor**, *Metaleptea*, a newsletter of the Orthopterists' Society. 2005-2008.

OTHER PROFESSIONAL SERVICE

- **Deputy Director and Executive Committee Member**, Behavioral Plasticity Research Institute (BPRI) (<https://behavioralplasticity.org/>). 2020-present.
- **Online Course Instructor**, Curso virtual “Manejo de la langosta: hacia un enfoque preventivo”, Organismo Internacional Regional de Sanidad Agropecuaria (OIRSA). 2020.
- **Curator**, Orthoptera, Encyclopedia of Life (www.eol.org). 2011-present.
- **Taxonomic Expert**, *Orthoptera Species File Online* (<http://orthoptera.speciesfile.org>). 2004-present.

MANUSCRIPT REVIEW SERVICE

African Biodiversity, Annals of the Entomological Society of America, Biological Journal of the Linnean Society, BMC Genomics, Bulletin of Entomological Research, Canadian Journal of Zoology, Cladistics, Communications Biology, Current Opinion in Insect Science, Ecological Complexity, Ecology Letters, Entomological News, Florida Entomologist, Folia Microbiologica, Gene, Genome, Great Plains Research, Insect Conservation and Diversity, Insect Molecular Biology, Insect Systematics & Evolution (handled as Editor-in-Chief), Insect Systematics and Diversity, Insects, Invertebrate Systematics, Journal of Chemical Ecology, Journal of Crustacean Biology, Journal of Economic Entomology, Journal of Insect Physiology, Journal of Insect Science, Journal of Molecular Evolution, Journal of Natural History, Journal of Orthoptera Research, Methods in Ecology and Evolution, Midsouth Entomologist, Mitochondrial DNA Part B: Resources, Molecular Biology and Evolution, Molecular Ecology, Molecular Phylogenetics and Evolution, Pakistan Journal of Zoology, PLoS Genetics, PLoS One, Proceedings of the Academy of Natural Sciences, Proceedings of the Entomological Society of Washington, Proceedings of the International Symposium of Tropical Biology, Proceedings of the Royal Society B, Psyche, Revista de Biología Tropical, Scientific Reports, Systematic Biology, Systematic Entomology, Taprobanica, The Southwestern Naturalist, Trends in Evolution and Ecology, Zoosystema, Zoologica Scripta, Zoological Journal of the Linnean Society, Zoological Science, Zootaxa (handled as Subject Editor).

Total number of journals reviewed for: 57

GRANT REVIEW SERVICE

- National Science Foundation Panel (DEB: SBS). Fall 2021.
- National Science Foundation Panel (DBI: ADBC). Spring 2021.
- Foundation for Food and Agriculture Research, ad-hoc reviewer, 2018.
- Natural Sciences and Engineering Research Council of Canada, CRSNG, ad-hoc reviewer, 2017.
- The Research Foundation - Flanders (FWO, Belgium), ad-hoc reviewer, 2015.
- Fonds de recherche du Québec - Nature et technologies, ad-hoc reviewer, 2014.
- Biotechnology and Biological Sciences Research Council (BBSRC, UK), ad-hoc reviewer, 2013.
- National Science Foundation, ad-hoc reviewer, 2013, 2014, 2015, 2017, 2019.
- National Science Foundation Panel (DBI: ADBC). Fall 2015.
- National Science Foundation Panel (DEB: Phylogenetic Systematics, Pre-proposal). Spring 2013.
- National Research Foundation (South Africa). 2012.
- National Geographic Society, ad-hoc reviewer, 2014.

EXTERNAL DISSERTATION EXAMINE SERVICE

- Thomas Semple, Australian National University, 2019.
- Mikhaila Gordon, University of Western Cape, 2021.

EXTERNAL PROMOTION AND TENURE REVIEWER SERVICE

- Dr. Zongyuan Ma, University of Chinese Academy of Sciences, 2021.

COLLEGE SERVICE

- COALS Faculty Development Leave Advisory Committee, 2021.
- **Panelist**, Office of Research and Commercialization, NSF CAREER panel discussion, 2013.
- **Panelist**, College of Sciences First-Year Assistant Professor Mentoring Program, 2013-2014.
- **Internal Reviewer**, UCF Equipment Initiative Grant Proposal, 2012.
- **Host**, Summer Research Academy, 2011-2013.
- **Judge**, Showcase of Undergraduate Research Excellence, 2011-2013.
- **Departmental Representative to Library Committee**, 2010-2014.
- **Associate Faculty Member**, Biomedical Sciences Ph.D. Program, 2010-2014.

DEPARTMENTAL SERVICE

At TAMU (2015-present)

- EEB Executive Committee (elected), 2020-2022.
- EEB Curriculum Chair (elected), 2020-2022.
- Committee on Utilization and Assignment of Physical Space, 2019-2021.
- Quarantine Facility Committee, 2019-present.
- EEB Executive Committee (elected), 2017-2019.
- EEB Seminars Committee Chair (elected), 2017-2019.
- Faculty Advisor, Undergraduate Entomology Student Organization, 2017-present.
- Faculty Advisory Committee (elected), 2016-2019.
- Committee on Utilization and Assignment of Physical Space, 2016-2018.
- Education Committee, 2016-2018.
- Graduate Student Recruitment Committee, 2015-2017.
- Student Enhancement Fund Committee, 2015-2017.
- Search Committee for Collections Manager of Texas A&M University Insect Collection, 2015.

At UCF (2010-2014)

- Departmental Chair Search Committee, 2014.
- Faculty Search Committee (Integrative Biology), 2013.
- Facilities and Space Committee, 2012-2014.
- *Ad hoc* Search Committee Chair for Collection Manager Position of the Stuart M. Fullerton Collection of Arthropods. 2012.
- Graduate Studies Committee, 2011-2014.
- Collections' Committee, 2010-2012.

PROFESSIONAL SOCIETY MEMBERSHIPS

- Orthopterists' Society
- Entomological Society of America
- Society of Integrative and Comparative Biology

COMMUNITY OUTREACH

- **Teach-In**, Forest Ridge Elementary School, College Station (TX). March 19, 2019.
Gave a presentation on insects to 3rd graders.
- **Invited Speaker**, National Match Competition in Orlando, Central Florida Chapter, Korean-American Scientists and Engineers Association. April 12, 2014.
- **Teach-In**, Seminole County Public Schools. Partin Elementary School. November 19, 2013.
Gave a presentation on insects to 1st graders.
- **Service-learning**, Carillon Elementary School, 5th grade science class. October, 2013
Service-learning project as part of ENY4004C/5006C.
- **Host**, School visit by the Korean School of the Orlando Beautiful Church. October 20, 2012.
Gave a presentation on my research, a tour of my lab and insect collection.
- **Invited Speaker**, National Match Competition in Orlando and Tampa, Central Florida Chapter, Korean-American Scientists and Engineers Association. April 21, 2012.
Gave a presentation on my research and career to 4th-11th graders.
- **Organizing Committee**, National Science and Match Competition in Orlando and Tampa, Central Florida Chapter, Korean-American Scientists and Engineers Association. 2012.
- **Volunteer**, National Mathematics Competition, Central Florida Chapter, Korean-American Scientists and Engineers Association. April 16, 2011.
- **Teach-In**, Seminole County Public Schools. Sterling Park Elementary School. November 16, 2010.
Gave a presentation on bees to 1st and 2nd graders.
- **Teach-In**, Seminole County Public Schools. Goldsboro Elementary School. September 29, 2010.
Gave a presentation on bees to 1st and 2nd graders.