

# 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>
2016-present	<b>Associate Professor</b> , Department of Entomology, Texas A&M University
2015-present	Core Faculty of Ecology and Evolutionary Biology (EEB) Doctoral Program
2015-2016	<b>Assistant Professor</b> , Department of Entomology, Texas A&M University
2015-present	Graduate Faculty Scholar, College of Graduate Studies, University of Central Florida
2010-2014	<b>Assistant Professor</b> , Department of Biology, University of Central Florida
2010-2014	<b>Curator</b> , Stuart M. Fullerton Collection of Arthropods, Department of Biology, University of Central Florida
2009-2010	<b>Research Associate</b> , Department of Biology, Brigham Young University
2006-2009	<b>Postdoctoral Research Fellow</b> , Department of Biology, Brigham Young University
2005-2006	<b>Graduate Teaching Associate</b> , Department of Entomology, The Ohio State University
2002-2005	<b>National Science Foundation Graduate Research Fellow</b> , Department of Entomology, The Ohio State University
2001-2002	<b>Graduate Research Associate</b> , Department of Entomology, The Ohio State University
2000-2001	<b>Graduate Teaching Associate</b> , Department of Entomology, The Ohio State University

## HONORS & AWARDS

- **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)
- **Student and Young Professional Travel Award** for attending the International Congress of Entomology, Entomological Society of America (2012)
- **Student and Young Professional Award**, Entomological Society of America (2008)
- **John Henry Comstock Graduate Student Award**, Entomological Society of America (2006)
- **DeLong Award**, Department of Entomology, The Ohio State University (2005)
- **W. Fred Hink Research Award**, Department of Entomology, The Ohio State University (2005)
- **Herta Camerer Gross Fellowship**, College of Biological Sciences, The Ohio State University (2005)

- **Edward Ray Travel Award**, Council of Graduate Students, The Ohio State University (2005)
- **Graduate Research Fellowship**, National Science Foundation (2002-2005)

## RESEARCH

### FUNDED RESEARCH PROJECTS AS PI

*[Career total federal grant dollar to date: \$1,456,226]*

- 2017-2019 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** [TAMU portion: \$59,070])
- 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)**
- 2017 NSF IOS-1738522: “REU Supplement to CAREER: Evolution of Locust Swarms and Phenotypic Plasticity in Grasshoppers” **(\$6,000)**
- 2016 NSF IOS-1636989: “RAHSS Supplement to CAREER: Evolution of Locust Swarms and Phenotypic Plasticity in Grasshoppers” **(\$6,000)**
- 2016 NSF IOS-1636632: “REU Supplement to CAREER: Evolution of Locust Swarms and Phenotypic Plasticity in Grasshoppers” **(\$6,000)**
- 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)**
- 2014 NSF IOS-1442354: “CNIC Supplement to CAREER: Evolution of Locust Swarms and Phenotypic Plasticity in Grasshoppers” **(\$15,225)**
- 2014 NSF IOS-1436471: “REU Supplement to CAREER: Evolution of Locust Swarms and Phenotypic Plasticity in Grasshoppers” **(\$6,000)**
- 2013 NSF IOS-1338671: “REU Supplement to CAREER: Evolution of Locust Swarms and Phenotypic Plasticity in Grasshoppers” **(\$8,500)**
- 2013-2018 NSF IOS-1253493: “CAREER: Evolution of Locust Swarms and Phenotypic Plasticity in Grasshoppers” **(\$787,000)**
- 2013-2014 Orthoptera Species File Grant: “Enhancing digital content for Pyrgomorphidae (Orthoptera: Caelifera) in the Orthoptera Species File” **(\$18,363)**
- 2011 NSF DEB-1111899: “REU Supplement to Phylogenetic systematics of Orthoptera (Insecta): Evolution of male genitalia and study of nuclear mitochondrial pseudogenes” **(\$7,500)**
- 2010 NSF DEB-1025993: “REU Supplement to Phylogenetic systematics of Orthoptera (Insecta): Evolution of male genitalia and study of nuclear mitochondrial pseudogenes” **(\$6,000)**
- 2009 NSF DEB-0924626: “REU Supplement to Phylogenetic systematics of Orthoptera (Insecta): Evolution of male genitalia and study of nuclear mitochondrial pseudogenes” **(\$12,000)**
- 2008-2012 NSF DEB-0816962 & DEB-1064082: “Phylogenetic systematics of Orthoptera (Insecta): Evolution of male genitalia and study of nuclear mitochondrial pseudogenes” **(\$400,000)**
- 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 RESEARCH PROJECTS AS CO-PI

2013-2017 Hermon Slade Foundation Research Grant: "Speciation in the mountains: phylogenomics of the alpine grasshopper genus *Kosciuscola*" (PI: N. Tataric, 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

none at this moment

### INVITED GRANTS

2016 NSF DEB-Biodiversity: Discovery & Analysis: "Preliminary Proposal: SG: Collaborative Research: Evolution and Speciation in Afromontane and Alpine Grasshoppers in Southern Africa" (PI: D. Otte, Co-PI: H. Song)  
2015 NSF Partnerships for International Research and Education (PIRE): "PRELIMINARY PROPOSAL: PIRE: KNOW YOUR ANCIENT AGRICULTURAL ENEMY: Novel and integrative approaches to prevent locust outbreaks in Central Asia and Russia" (PI: A. Latchininsky, Co-PI: H. Song, G.A. Sword, M.P. Chaupis, C. Piou) (preliminary proposal *invited*; full proposal *declined*)  
2012 NSF DEB-Phylogenetic Systematics: "Mapping the evolution of flightless grasshoppers in the land-locked scrub archipelago of peninsular Florida" (PI: H. Song, Co-PI: M. Deyrup); (preliminary proposal *invited*; full proposal *declined*)  
2011 NSF Partnerships for International Research and Education (PIRE): "Preventing locust threats to global food security: Novel science and emerging technology to sustainably manage an ancient and complex enemy of agriculture" (PI: A. Latchininsky, Co-PI: R. Sivanpillai, H. Song, S. Seelan, C. Bomar) (preliminary proposal *invited*; full proposal *declined*)

### REFEREED PUBLICATIONS

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

[43 to date; Citations: 1667; h-index: 19; i10-index: 23; taken from Google Scholar (5/4/2017)]

- [43] **Song, H.**, Foquet, B.<sup>G</sup>, Mariño-Pérez, R.<sup>G</sup> and Woller, D.A.<sup>G</sup> *in press*. Phylogeny of locusts and grasshoppers reveals complex evolution of density-dependent phenotypic plasticity. *Scientific Reports*.  
[42] Mariño-Pérez, R.<sup>G</sup> and **Song, H.** 2017. Phylogeny of the grasshopper family Pyrgomorphidae (Caelifera, Orthoptera) based on morphology. *Systematic Entomology*. DOI: 10.1111/syen.12251  
[41] Sanabria-Urban, O.S.<sup>G</sup>, **Song, H.**, Oyama, K., González-Rodríguez, A. and Cueva del Castillo, R. 2017. A taxonomic revision of the Neotropical grasshoppers of the genus *Sphenarium* (Orthoptera; Pyrgomorphidae). *Zootaxa* 4274 (1): 1-86.  
[40] Woller, D.A.<sup>G</sup> 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.

- [39] [Raszick, T.J.<sup>G</sup>](#) and [Song, H.](#) 2016. The ecotype paradigm: Testing the concept in an ecologically divergent grasshopper. *Insect Systematics & Evolution* 47(4): 363-387.
- [38] [Mugleston, J.<sup>G</sup>](#), [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.
- [37] [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.](#), [Cuezzo, 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.
- [36] [Sanabria-Urban, O.S.<sup>G</sup>](#), [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.
- [35] [Kelly, S.L.<sup>G</sup>](#), [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.
- [34] [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.
- [33] [Song, H.](#), [Moulton, M.J.<sup>U</sup>](#) and [Whiting, M.F.](#) 2014. Rampant nuclear insertion of mtDNA across diverse lineages within Orthoptera (Insecta). *PLoS One* 9(10): e110508.
- [32] [Woller, D.A.<sup>G</sup>](#), [Fontana, P.](#), [Mariño-Pérez, R.<sup>G</sup>](#) and [Song, H.](#) 2014. Studies in Mexican Grasshoppers: *Liladownsia fraile*, a new genus and species of Dactylotini (Acrididae: Melanoplinae) and an updated molecular phylogeny of Melanoplinae. *Zootaxa* 3793 (4): 475-495.
- [31] [Song, H.](#) and [Mariño-Pérez, R.<sup>G</sup>](#) 2013. Re-evaluation of taxonomic utility of male phallic complex in higher-level classification of Acridomorpha (Orthoptera: Caelifera). *Insect Systematics & Evolution* 44: 241-260.
- [30] [Gotham, S.<sup>G</sup>](#) and [Song, H.](#) 2013. Non-swarming grasshoppers exhibit density-dependent phenotypic plasticity reminiscent of swarming locusts. *Journal of Insect Physiology* 59: 1151-1159.
- [29] [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.
- [28] [Mugleston, J.D.<sup>G</sup>](#), [Song, H.](#) and [Whiting, M.F.](#) 2013. A century of parphyly: A molecular phylogeny of katydids (Orthoptera: Tettigoniidae) supports multiple origins of leaf-like wings. *Molecular Phylogenetics and Evolution* 69: 1120-1134.
- [27] [Tatarnic, 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]
- [26] [Leavitt, J.R.<sup>U</sup>](#), [Hiatt, K.D.<sup>U</sup>](#), [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.
- [25] [Song, H.](#), [Moulton, M.J.<sup>U</sup>](#), [Hiatt, K.D.<sup>U</sup>](#) 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.
- [24] [Kumar, S.<sup>G</sup>](#), [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.

- [23] **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.
- [22] **Sheffield, N.C.<sup>U</sup>, Hiatt, K.D.<sup>U</sup>, Valentine, M.C., Song, H.** and Whiting, M.F. 2010. Mitochondrial genomics in Orthoptera using MOSAS. *Mitochondrial DNA* 21(3-4): 87-104.
- [21] **Song, H.** 2010. Grasshopper systematics: Past, present and future. *Journal of Orthoptera Research* 19(1): 57-68.
- [20] 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.
- [19] **Song, H.**, **Sheffield, N.C.<sup>U</sup>**, 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.
- [18] **Moulton, M.J.<sup>U</sup>, 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.
- [17] **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.
- [16] **Jensen, D.<sup>U</sup>, 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]
- [15] 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.
- [14] **Sheffield, N.C.<sup>U§</sup>, Song, H.<sup>§</sup>**, 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)
- [13] **Song, H.** 2009. Species-specificity of male genitalia is characterized by shape, size, and complexity. *Insect Systematics & Evolution* 40(2): 159-170.
- [12] **Sheffield, N.C.<sup>U</sup>, 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.
- [11] **Fenn, J.D.<sup>U</sup>, 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.
- [10] **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.
- [9] **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.
- [8] **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.
- [7] **Song, H.**, Weissman, D., Barrientos-Lozano, L., and Cano-Santana, Z. 2006. The Locust Island. *American Entomologist* 52(3): 168-181.
- [6] **Song, H.** 2006. Description of *Schistocerca cohni* n. sp. and redescription of *S. socorro* (Dirsh) (Orthoptera: Acrididae: Cyrtacanthacridinae) from Mexico. *Zootaxa* 1150: 43-52.
- [5] **Song, H.** 2005. Phylogenetic perspectives on the evolution of locust phase polyphenism. *Journal of Orthoptera Research* 14(2): 235-245.
- [4] **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.
- [3] **Song, H.** 2004. Revision of the Alutacea Group of genus *Schistocerca* (Orthoptera: Acrididae: Cyrtacanthacridinae). *Annals of the Entomological Society of America* 97: 420-436.

- [2] **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.
- [1] 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 IN PREPARATION / SUBMITTED

- [4] Cullen, D.A., Cease, A., Latchininsky, A.V., Ayali, A., Berry, K., Buhl, J., De Keyser, R., **Foquet, B.**<sup>G</sup>, 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. *submitted*. From molecules to management: Mechanisms and consequences of locust phase polyphenism. *Advances in Insect Physiology*.
- [3] Song, H., **Mariño-Pérez, R.**<sup>G</sup>, **Woller, D.A.**<sup>G</sup>, and Cigliano, M.M. *in prep*. Evolution, diversification, and biogeography of grasshoppers (Orthoptera: Acrididae). *Insect Systematics and Diversity*.
- [2] Gotham, S. and **Song, H.** *in prep*. A time-course analysis of density-dependent behavioral plasticity in the American birdwing grasshopper *Schistocerca americana* (Drury) (Orthoptera: Acrididae). *Journal of Insect Physiology*.
- [1] Mugleston, J., Naegle, M., **Song, H.**, and Whiting, M.F. *in prep*. Clearing up a taxonomic quandary: Phylogeny, biogeography, and origins of Tettigoniidae (Orthoptera: Ensifera). *Systematic Entomology*.

#### BOOK CHAPTERS

- [5] **Song, H.** *in press*. Biodiversity of Orthoptera in *Insect Biodiversity: Science and Society Volume II*. (Eds. R. G. Foottit and P. H. Adler)
- [4] Mariño-Pérez, R., Sanabria-Urbán, S., Rocha-Sánchez, A.Y. and **Song, H.** *in press*. Plains Lubber Grasshopper *Brachystola magna* (Girard) (Orthoptera: Romaleidae) in *The Encyclopedia of Plant Pests*.
- [3] Sanabria-Urbán, S., Mariño-Pérez, R., and **Song, H.** *in press*. Corn Grasshopper *Sphenarium purpurascens* Charpentier (Orthoptera: Pyrgomorphidae) in *The Encyclopedia of Plant Pests*.
- [2] **Song, H.**, Cigliano, M.M., and Lange, C.E. *in press*. South American Locust *Schistocerca cancellata* (Serville, 1838) (Orthoptera: Acrididae) in *The Encyclopedia of Plant Pests*.
- [1] **Song, H.** *in press*. Central American Locust *Schistocerca piceifrons* (Walker, 1870) (Orthoptera: Acrididae) in *The Encyclopedia of Plant Pests*.

#### NON-REFEREED PUBLICATIONS

- [7] **Song, H.** and Thijssen, M.S. 2014. Editorial: Insect Systematics & Evolution: A new vision for the future. *Insect Systematics & Evolution* 45: 1-2.
- [6] 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.
- [4] **Song, H.** 2008. Ecological study of the Central American locusts on Socorro Island. *Econature* 15: 66-71. [in Korean]
- [3] **Song, H.** 2007. Mouse-catching locust – A mysterious creature revealed. *Metaleptea* 27(1): 6-7.
- [2] Weissman D.B., **Song, H.** and Barrientos-Lozano, L. 2004. Locust Outbreak on Socorro Island, Islas Revillagigedo, México. *TecnoINTELECTO* 1(2): 119-121.
- [1] **Song, H.** 2000. Ground beetle diversity at McLean Bogs. *Cornell Plantations Notes* 74: 8-9.

## INVITED SEMINARS

- 2016 TALLER REGIONAL DE MANEJO DE LA LANGOSTA CENTROAMERICANA *Schistocerca piceifrons*. Yucatan, Mexico. “Teoría de fases: de solitario a gregario”
- 2016 12<sup>th</sup> International Congress of Orthopterology, Ilhéus, Brazil. Plenary Seminar on Systematics. “Orthopteran systematics: Past, present, and future” (11/2016)
- 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”
- 2016 Centro de Estudios Parasitologicos 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”
- 2015 VII<sup>th</sup> Dresden Meeting on Insect Phylogeny “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”
- 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”
- 2013 International Congress of Orthopterology, Kunming, China, Symposium on Systematics “Phylogenetic Systematics of Orthoptera”
- 2012 University of Georgia, Department of Entomology “300 millions of evolution in Orthoptera (Insecta)”
- 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 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”
- 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 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 Dan Otte Symposium, University of Lethbridge, Lethbridge, Canada  
“Grasshopper systematics: Past, Present and Future”
- 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 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”
- 2005 The Ohio State University, Department of Entomology  
“The Locust Island – A fascinating story of the swarming locusts on Socorro Island, Mexico”
- 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

- 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. 10<sup>th</sup> 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<sup>U</sup> and graduate students<sup>G</sup> under my supervision are underlined with appropriate superscripts, and **my name** in in bold.)

- 2016 Mariño-Pérez, R.<sup>G</sup> and **Song, H.** Current knowledge of Pyrgomorphidae systematics using morphological and molecular data. 12<sup>th</sup> International Congress of Orthopterology, Ilhéus, Brazil.
- 2016 Woller, D.A.<sup>G</sup> and **Song, H.** Expanding the boundaries of the new morphological frontier: exploring functionality in 3D (Orthoptera: Acrididae: Melanoplus: Puer Group). 12<sup>th</sup> International Congress of Orthopterology, Ilhéus, Brazil.
- 2016 Foquet, B.<sup>G</sup> and **Song, H.** *De novo* transcriptomic analysis of density-dependent phase plasticity in a locust species (*Schistocerca piciefrons*) and two closely related non-swarming grasshoppers. International Congress of Entomology (ICE2016), Orlando, FL.
- 2016 Mariño-Pérez, R.<sup>G</sup> and **Song, H.** Towards a comprehensive knowledge of Pyrgomorphidae (Orthoptera: Caelifera) systematics. International Congress of Entomology (ICE2016), Orlando, FL.

- 2016 Raszick, T.J.<sup>G</sup> 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.<sup>G</sup> 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.<sup>G</sup> 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.<sup>G</sup> and **Song, H.** Exploring the sexy frontiers of functional morphology...in 3D!!! (Orthoptera: Acrididae: *Melanoplus rotundipennis*). Entomological Society of America Southwestern Branch Meeting, TX. (1<sup>st</sup> place)
- 2015 Woller, D.A.<sup>G</sup> 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.<sup>G</sup> and **Song, H.** On the origin of New World Pyrgomorphidae. Entomological Society of America Annual Meeting, Minneapolis, MN.
- 2015 Woller, D.A.<sup>G</sup> 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.<sup>G</sup> and **Song, H.** Solving (phallic) complex problems (Acrididae: *Melanoplus*: The Puer Group). Entomological Society of America Annual Meeting, Minneapolis, MN.
- 2015 Raszick, T.J.<sup>G</sup>, 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.<sup>U</sup> 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.<sup>U</sup> and **Song, H.** A comparative study of aposematic coloration in central Florida beetles. Entomological Society of America Annual Meeting, Portland, OR.
- 2014 Gale, C.<sup>U</sup> and **Song, H.** Chemical ecology of the Florida rosemary grasshopper, *Schistocerca ceratiola*. Entomological Society of America Annual Meeting, Portland, OR.
- 2014 Woller, D.A.<sup>G</sup> 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.<sup>G</sup> 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.<sup>G</sup> 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.<sup>G</sup> 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.<sup>U</sup> 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.<sup>U</sup> 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.<sup>U</sup>, 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.<sup>U</sup>, 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.<sup>G</sup> 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.<sup>G</sup> and **Song, H.** Microbial community structure in a host-associated grasshopper. Entomological Society of America Annual Meeting, Austin, TX.
- 2013 Mariño-Pérez, R.<sup>G</sup> and **Song, H.** Wing evolution in Pyrgomorphidae. Entomological Society of America Annual Meeting, Austin, TX.
- 2013 Woller, D.A.<sup>G</sup> 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.<sup>G</sup> and **Song, H.** Systematics of Pyrgomorphidae. International Congress of Orthopterology, Kunming, China.
- 2013 Woller, D.A.<sup>G</sup> 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.<sup>G</sup> 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.<sup>G</sup> and **Song, H.** Evolution of juvenile hormone esterase in insects. Entomological Society of America Annual Meeting, Knoxville, TN.
- 2012 Raszick, T.J.<sup>G</sup> and **Song, H.** Mosaic pattern of character evolution in *Schistocerca lineata*. Entomological Society of America Annual Meeting, Knoxville, TN.
- 2012 Gotham, S.E.<sup>G</sup> 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.<sup>G</sup> 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.<sup>G</sup> 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.<sup>G</sup>, **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.<sup>G</sup> 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.<sup>U</sup> 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.<sup>U</sup>, Mariño-Pérez, R.<sup>G</sup>, 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.<sup>G</sup>, 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.<sup>U</sup> and **Song, H.** Density-dependent phenotypic plasticity in *Schistocerca americana*. Entomological Society of America Annual Meeting, Reno, NV.

- 2011 Kumar, S.<sup>G</sup>, 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.<sup>G</sup> and **Song, H.** Phylogeographic relationships of regional ecotypes in *Schistocerca lineata*. Entomological Society of America Annual Meeting, Reno, NV.
- 2011 Mugleston, J.D.<sup>G</sup>, **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.<sup>U</sup>, Hiatt, K.D.<sup>U</sup>, **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.<sup>U</sup> and **Song, H.** A molecular phylogeny of lubber grasshopper family Romaleidae (Orthoptera). UCF Showcase of Undergraduate Research Excellence.
- 2010 Leavitt, J.R.<sup>U</sup>, Hiatt, K.D.<sup>U</sup>, **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.<sup>G</sup>, **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.<sup>U</sup>, Mugleston, J.D.<sup>G</sup>, Hiatt, K.D.<sup>U</sup>, **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.<sup>U</sup>, Moulton, M.J.<sup>U</sup>, **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.<sup>U</sup>, **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.<sup>G</sup>, **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.<sup>U</sup>, **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.<sup>U</sup> 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.<sup>U</sup>, **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.<sup>U</sup>, **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

- Costa Rica. July 31 - August 13, 2016; 3-13 January, 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
- 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.
- 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 OUTPUT

- *Research Features* (<http://researchfeatures.com/2017/06/30/locust-swarms-powerful-force-nature/>) June, 2017.
- *Entomology Today* (<https://entomologytoday.org/2017/04/04/functions-of-grasshopper-genitalia-revealed-in-3d-via-correlative-microscopy/>) April, 2017.
- *Entomology Today* (<http://entomologytoday.org/2015/04/08/the-origin-of-grasshoppers-katydid-and-crickets-a-new-study-resolves-the-evolutionary-tree-of-the-orthoptera/>) April, 2015.
- *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](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](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](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

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

2017      ENTO489: Special Topics in Field Entomology in the Tropics. Study Abroad in Costa Rica. Summer.  
 2017      ENTO301: Biodiversity and Biology of Insects. Spring semester.  
 2016      ENTO689: Special Topics in Professional Grant and Contract Writing (co-taught with J. Rangel-Posada). Fall semester.  
 2016      ENTO689: Special Topics in Insect Behavior and Natural History. Fall semester.  
 2016      ENTO301: Biodiversity and Biology of Insects. 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.

#### GRADUATE STUDENTS SUPERVISED (Chair or Co-Chair)

- M.S. Ryan T. Selking. Evolution of crypsis in leaf-like katydids. 2016-present [TAMU].
- Ph.D. Bert Foquet. Evolution of the Central American locust. 2016-present [TAMU].
- 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. Phylogeny of Pyrgomorphae (Orthoptera). 2011-present [UCF-TAMU].
- Ph.D. Derek A. Woller. Mapping the evolution of flightless grasshoppers in the land-locked scrub archipelago of peninsular Florida. 2011-present [UCF, TAMU].
- 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). Graduated from UCF in fall 2014.
- M.S. Tyler J. Raszick. Phylogeography of a bird-grasshopper *Schistocerca lineata* (Orthoptera: Acrididae: Cyrtacanthacridinae). Graduated from UCF in spring 2014.

#### GRADUATE STUDENT COMMITTEES

- Ph.D. Devin Preston. Department of Biological Sciences, University of New Orleans (Advisor: Dr. Steven Johnson). 2017-present.
- M.S. Amanda Pinion. Department of Wildlife and Fisheries Sciences, TAMU (Advisor: Dr. Kevin Conway). 2017-present.
- Ph.D. Philip Shults. Department of Entomology, TAMU (Advisor: Dr. Ed Vargo). 2016-present.
- Ph.D. Aline Spindola. Department of Entomology, TAMU (Advisor: Dr. Jeff Tomberlin). 2016-present.
- Ph.D. Karen Wright. Department of Biology, University of New Mexico (Advisor: Dr. Kelly Miller). 2016-present
- Ph.D. Tyler Raszick. Department of Entomology, TAMU (Advisor: Dr. Greg Sword). 2015-present.
- M.S. Trevor Steele. Department of Entomology, TAMU (Advisor: Dr. Spencer Behmer). 2015-present.
- Ph.D. Jason Strickland. Department of Biology, UCF (Advisor: Dr. Chris Parkinson). 2013-present.
- M.S. Jason Hickson. Department of Biology, UCF (Advisor: Dr. Chris Parkinson). 2013-present.
- 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). Graduated in Summer 2012.
- Ph.D. Ping Ge, Department of Computer Science, UCF (Advisor: Dr. Shaojie Zhang). 2012-2016.
- Ph.D. Joseph Muggleston, Department of Biology, Brigham Young University (Advisor: Dr. Michael F. Whiting). 2008-2016.

## UNDERGRADUATE STUDENTS SUPERVISED

- Aria Deluna (Student Researcher). 2017-present.
- Nicholas Adams (Student Researcher). 2017-present.
- Gabriel Contreras (Student Researcher). 2017-present.
- Jonathan Koehl (Student Researcher). 2016.
- Charmelle Williams (Student Researcher). 2016-present.
- Drew Little (Student Researcher). 2016-present.
- Quan Huynh (Student Researcher). 2016-present.
- Lauren Yang (NSF student researcher). Summer 2016.
- Ryan Selking (Student Researcher). 2016.
- Shelby Kilpatrick (Student Researcher). 2016.
- Michael Riley (Student Researcher). 2015-present.
- 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 AVECILLA (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

- **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**, “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 SERVICE

- **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.
- **Governing Board Member**, Orthopterists’ Society. 2009-present.
- **Organizing Committee Member**, 2016 International Congress of Entomology. 2013-2016.
- **Scientific Committee Member**, 12<sup>th</sup> International Congress of Orthopterology, 2015-2016.
- **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**, 11<sup>th</sup> 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**, 10<sup>th</sup> 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

- **Editor-in-Chief**, *Insect Systematics and Evolution*. 2014-present.
- **Subject Editor**, Orthoptera, *Zootaxa*. 2007-present.
- **Editorial Board Member**, *Insect Systematics and Evolution*. 2010-present.
- **Editorial Board Member**, *Frontiers in Phylogenetics, Phylogenomics, and Systematics*. 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

- **Curator**, Orthoptera, Encyclopedia of Life ([www.eol.org](http://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, 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), 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, Midsouth Entomologist, Methods in Ecology and Evolution, Molecular Biology and Evolution, Molecular Ecology, Molecular Phylogenetics and Evolution, Pakistan Journal of Zoology, 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: 50

## GRANT REVIEW SERVICE

- 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.
- National Science Foundation Panel (ADBC). Fall 2015.
- National Science Foundation Panel (Phylogenetic Systematics, Pre-proposal). Spring 2013.
- National Research Foundation (South Africa). 2012.
- National Geographic Society, ad-hoc reviewer, 2014.

## COLLEGE SERVICE

- **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-present.

## DEPARTMENTAL SERVICE

### *At TAMU (2015-present)*

- 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-present.
- *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

## COMMUNITY OUTREACH

- **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 1<sup>st</sup> graders.*
- **Service-learning**, Carillon Elementary School, 5<sup>th</sup> 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 4<sup>th</sup>-11<sup>th</sup> 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 1<sup>st</sup> and 2<sup>nd</sup> graders.*

- **Teach-In**, Seminole County Public Schools. Goldsboro Elementary School. September 29, 2010.  
*Gave a presentation on bees to 1<sup>st</sup> and 2<sup>nd</sup> graders.*