

## Curriculum Vitae

### HSIAO-HSUAN (ROSE) WANG

Department of Wildlife and Fisheries Sciences  
Texas A&M University, College Station, TX 77843-2258  
Tel: (979) 845-5702, e-mail: [hsuan006@tamu.edu](mailto:hsuan006@tamu.edu)

#### EDUCATION

Ph.D., Department of Ecosystem Science and Management, Texas A&M University, College Station, TX, USA. 2009. Dissertation title: Occupation, dispersal, and economic impact of major invasive plant species in southern U.S. forests. Advisor: Dr. Jianbang Gan.

M.S., Department of Forestry, National Taiwan University, Taipei, Taiwan. 2004. Thesis title: The application of the theory of reasoned action to fire use behavior of farmers in Wu-Lin area. Advisors: Dr. Chyi-Rong Chiou and Dr. Chau-Chin Lin.

B.S., Department of Forestry, National Taiwan University, Taipei, Taiwan. 2002.

#### ACADEMIC APPOINTMENTS

2014 – Present Assistant Research Scientist, Ecological Systems Laboratory, Department of Wildlife and Fisheries Sciences, Texas A&M University. Supervisor: Dr. William E. Grant.

2015 – Present Associate Member, Department of Wildlife and Fisheries Sciences, Texas A&M University.

2012 – Present Adjunct Doctoral Faculty, Department of Biology, Texas State University.

2010 – 2014 Post-doctoral Research Associate, Ecological Systems Laboratory, Department of Wildlife and Fisheries Sciences, Texas A&M University. Supervisor: Dr. William E. Grant.

2006 – 2009 Graduate Research Assistant, Department of Ecosystem Science and Management, Texas A&M University. Supervisor: Dr. Jianbang Gan.

Spring 2008 Graduate Teaching Assistant, Department of Ecosystem Science and Management, Texas A&M University. Supervisor: Dr. Robert Knight.

2004 – 2006 Research Assistant, School of Forestry and Resource Conservation, National Taiwan University. Supervisor: Dr. Chyi-Rong Chiou.

2002 – 2004 Graduate Teaching Assistant, School of Forestry and Resource Conservation, National Taiwan University. Supervisor: Dr. Shao-Shun Ying.

#### PROFESSIONAL SERVICE

Associate Editor, Biological Invasions. Jul. 2016 – Present.

Subject Editor (Theoretical Models and Mathematical Models), Ecological Modelling. Jul. 2015 – Present.

Editor Board, Ecological Modelling. Oct. 2013 – Jun. 2015.

Scientific Advisory Board, The International Society for Ecological Modelling Global Conference 2016, Towson, MD, USA.

Symposium Chair, Modeling ecological dynamics in temporally variable, spatially heterogeneous environments. The International Society for Ecological Modelling Global Conference 2016, Towson, MD, USA.

Journal reviews: Biodiversity and Conservation, Ecological Modelling, Forests, Forest Ecology and Management, Invasive Plant Science and Management, and PLoS ONE.

### PEER-REVIEWED PUBLICATIONS

(\*undergraduate students, †graduate students, ‡co-lead authors)

27. Suriyamongkol, T\*, E. McGrew\*, L. Culpepper\*, K. Beck\*, **H.-H. Wang**, and W. E. Grant. (In Press) Recent range expansions by the most prevalent invasive tree, Chinese tallow (*Triadica sebifera* (L.) Small), in the forestlands of eastern Texas. *Southeastern Naturalist*.
26. Arevilca, A.\*, L. Elissetche\*, M. Scanlin\*, S. Stephens\*, **H.-H. Wang**, and W. E. Grant. (In Press) Rapidly increasing of eastern Texas forestlands by the most prevalent invasive shrubs: Chinese and European privets. *Southeastern Naturalist*.
25. Poche, D. M.†‡, W. E. Grant‡, and **H.-H. Wang**‡. (In Press) Visceral leishmaniasis on the Indian subcontinent: Modelling the dynamic relationship between vector control schemes and vector life cycles. *PLOS Neglected Tropical Diseases*.
24. Fairs, A., **H.-H. Wang**, A. Tarone, and W. E. Grant. (In Press) Forensic entomology: Evaluating uncertainty associated with postmortem interval (PMI) estimates with ecological models. *Journal of Medical Entomology*.
23. Leo, J., T. J. Minello, W. E. Grant, and **H.-H. Wang**. 2016. Simulating environmental effects on brown shrimp production in the northern Gulf of Mexico. *Ecological Modelling* 330: 77-86. DOI: 10.1016/j.ecolmodel.2016.02.
22. **Wang, H.-H.**‡, C. L. Wonkka‡, W. E. Grant, and W. E. Rogers. 2016. Range expansion of invasive shrubs: implication for crown fire risk in forestlands of the southern United States. *AoB PLANTS* 8: plw012. DOI: 10.1093/aobpla/plw012.
21. **Wang, H.-H.**, W. E. Grant, P. D. Teel, S. A. Hamer. 2016. Tick-borne infectious agents in nature: simulated effects of changes in host density on spatial-temporal prevalence of infected ticks. *Ecological Modelling* 323: 77-86. DOI: 10.1016/j.ecolmodel.2015.11.0.
20. Chiou, C.-R., Y.-J. Chen, **H.-H. Wang**, and W. E. Grant. 2016. Predicted range expansion of the invasive plant *Leucaena leucocephala* in the Hengchun peninsula, Taiwan. *Biological Invasions* 18(2): 381-394. DOI: 10.1007/s10530-015-1010-4.
19. **Wang, H.-H.**, W. E. Grant, P. D. Teel, and S. A. Hamer. 2015. Simulation of climate-tick-host-landscape interactions: Effects of shifts in the seasonality of host population fluctuations on tick densities. *Journal of Vector Ecology* 40(2): 247-255.
18. **Wang, H.-H.**, T. E. Koralewski, E. K. McGrew\*, W. E. Grant, T. D. Byram. 2015. Species distribution model for management of an invasive vine in forestlands of eastern Texas. *Forests* 6: 4374-4390. DOI: 10.3390/f6124374.
17. Mali, I.†, **H.-H. Wang**, W. E. Grant, M. Feldman, M. R. J. Forstner. 2015. Modeling commercial freshwater turtle production on US farms for pet and meat markets. *PLoS ONE* 10(9): e0139053. DOI: 10.1371/journal.pone.0139053.
16. Randklev, C. R., **H.-H. Wang**, J. E. Groce, W. E. Grant, S. Robertson, and N. Wilkins. 2015. The influence of land use on a rare freshwater mussel (family: unionidae), *Quadrula houstonensis* in the Leon river, Texas. *Journal of Fish and Wildlife Management* 6(2): 327-337. DOI: 10.3996/012015-JFWM-003.
15. Koralewski, T. E., **H.-H. Wang**, W. E. Grant and T. D. Byram. 2015. Plants on the move: Assisted migration of forest trees in the face of climate change. *Forest*

- Ecology and Management 344: 30-37.
14. **Wang, H.-H.**<sup>‡</sup>, C. L. Wonkka<sup>‡</sup>, M. L. Treglia, W. E. Grant, F. E. Smeins, and W. E. Rogers. 2015. Species distribution modeling for conservation of an endangered endemic orchid, *Spiranthes parksii* (Correll). AoB PLANTS (2015): plv039. DOI: 10.1093/aobpla/plv039.
  13. Teague, W. R., W. E. Grant and **H.-H. Wang**. 2015. Assessing optimal configurations of multi-paddock grazing strategies in tallgrass prairie using a simulation model. Journal of Environmental Management 150: 262-273.
  12. **Wang, H.-H.** and W. E. Grant. 2014. Invasion of eastern Texas forestlands by Chinese privet: efficacy of alternative management strategies. Diversity 6 (4): 652-664.
  11. **Wang, H.-H.**, J. L. Buchhorn\* and W. E. Grant. 2014. Effects of management on range expansion by Chinese tallow in the forestlands of eastern Texas. Journal of Forestry 112(4): 346-353.
  10. Chiou, C.-R., **H.-H. Wang**, Y.-J. Chen, W. E. Grant, and M.-L. Lu. 2013. Modeling potential range expansion of the invasive shrub *Leucaena leucocephala* in the Hengchun peninsula, Taiwan. Invasive Plant Science and Management 6(4): 492-501.
  9. **Wang, H.-H.**, N. Y. Kung, W. E. Grant, J. C. Scanlan, and H. E. Field. 2013. Recrudescence supports Hendra virus persistence in Australian flying-fox populations. PLoS ONE 8(11): e80430. DOI: 10.1371/journal.pone.0080430.
  8. Mora, M. A., W. E. Grant, L. Wilkins, and **H.-H. Wang**. 2013. Simulated effects of reduced spring flow from the Edwards aquifer on population size of the fountain darter (*Etheostoma fonticola*). Ecological Modelling 250: 235-243.
  7. **Wang, H.-H.** and W. E. Grant. 2012. Determinants of Chinese and European privet invasion and likelihood of further invasion in southern US forestlands. Invasive Plant Science and Management 5(4): 454-463.
  6. **Wang, H.-H.**, C. L. Wonkka, W. E. Grant, and W. E. Rogers. 2012. Potential range expansion of Japanese honeysuckle (*Lonicera japonica* Thunb.) in southern U.S. forestlands. Forests 3(3): 573-590.
  5. **Wang, H.-H.**, W. E. Grant, and P. D. Teel. 2012. Simulation of climate-host-parasite-landscape interactions: a spatially-explicit model for ticks (Acari: Ixodidae). Ecological Modelling 243: 42-62.
  4. **Wang, H.-H.**, W. E. Grant, J. Gan, W. E. Rogers, T. M. Swannack, T. E. Koralewski, J. H. Miller and J. W. Taylor. 2012. Integrating spread dynamics and economics of timber production to manage Chinese tallow invasions in southern U.S. forestlands. PLoS ONE 7(3): e33877. DOI: 10.1371/journal.pone.0033877.
  3. Gil-Weir, K. C., W. E. Grant, R. D. Slack, **H.-H. Wang**, and M. Fujiwara. 2012. Demography and population trends of Whooping Cranes. J of Field Ornithology 83(1): 1-10.
  2. **Wang, H.-H.**, W. E. Grant, T. M. Swannack, J. Gan, W. E. Rogers, T. E. Koralewski, J. H. Miller, and J. W. J. Taylor. 2011. Predicted range expansion of Chinese tallow tree (*Triadica sebifera*) in forestlands of the southern United States. Diversity and Distributions 17: 552-565.
  1. Gan, J., J. H. Miller, **H.-H. Wang**, and J. W. Taylor, Jr. 2009. Invasion of Tallowtree into Southern U.S. forests: influencing factors and implications for mitigation.

Canadian Journal of Forest Research 39: 1346-1356.

**[In Chinese]**

3. Chiou, C.-R., C. Lin, and **H.-H. Wang**. 2006. Investigation for fire use behavior of residences in Wu-Lin area. *Journal of Chinese Forestry Association* 39(1): 29-41.
2. Chiou, C.-R., H. Lin, and **H.-H. Wang**. 2005. A study of visitors' satisfaction in Lin-Mei stone trail during summer vacation. *Journal of the Experimental Forest of National Taiwan University* 19(4): 281-291.
1. Chiou, C.-R. and **H.-H. Wang**. 2005. The application of knowledge management to forestry administration. *Bulletin of Taiwan Forestry Research Institute*, 31(1): 68-80.

**PUBLICATIONS CURRENTLY IN REVIEW**

1. Ragland, C. J., P. Banerjee, **H.-H. Wang**, W. E. Grant, and T. R. Peterson. Collaborative modeling: A social learning tool for building social capital.
2. **Wang, H.-H.**, P. D. Teel, W. E. Grant, G. Schuster and A.A. Pérez de León. Simulated interactions of white-tailed deer (*Odocoileus virginianus*), climate variation and habitat heterogeneity on southern cattle tick (*Rhipicephalus (Boophilus) microplus*) eradication methods in south Texas, USA.
3. **Wang, H.-H.**, M. S. Corson, W. E. Grant, and P. D. Teel. Quantitative models of *Boophilus* ticks: historical review and synthesis.
4. Villamizar-Gomez, A.<sup>†</sup>, M. R. J. Forstner, T. Suriyamongkol\*, K. N. Forks\*, W. E. Grant, **H.-H. Wang**, and Ivana Mali. Prevalence of *Batrachochytrium dendrobatidis* in Two Sympatric Tree Frog Species, *Hyla cinerea* and *Hyla versicolor*.

**TEACHING**

**Course Taught**

WFSC 291 and WFSC 491 Research. Texas A&M University. Instructor (Undergraduate Research Advisor). Spring 2015 – present.

WFSC 604 Ecological Modeling, Texas A&M University. Co-Instructor\*. Spring 2010 – 2016. (\*Dr. W. E. Grant is the Instructor of Record).

REN205 Fundamentals of Ecology, Texas A&M University. Co-Instructor. Spring 2016. Course evaluation: 4.72 / 5.00 with 199 students and 4.68 / 5.00 with 100 students.

REN205 Fundamentals of Ecology, Texas A&M University. Co-Instructor. Spring 2015. Course evaluation: 4.73 / 5.00 with 193 students and 4.71 / 5.00 with 94 students.

REN205 Fundamentals of Ecology, Texas A&M University. Co-Instructor. Fall 2014. Course evaluation: 4.57 / 5.00 with 223 students and 4.59 / 5.00 with 227 students.

**Guest Lecture**

WFSC403/613 Animal Ecology, Texas A&M University. Interspecific Competition. Mar. 2016.

WFSC 405 Urban Wildlife and Fisheries. Texas A&M University. Vector-borne diseases in urban areas: Dynamic islands in space and time. Feb. 2016

WFSC403/613 Animal Ecology, Texas A&M University. Population growth. Sep. 2014.

WFSC403/613 Animal Ecology, Texas A&M University. Systems approach in ecology. Aug. 2012.

**Lab Taught**

RLEM 301 Range and Forest Watershed Management Lab, Texas A&M University.

Teaching Assistant. Spring 2008. Course evaluation: 4.33 / 5.00 and 4.54 / 5.00.  
Plant Taxonomy Lab, School of Forestry and Resource Conservation, National Taiwan University. Teaching Assistant. Spring 2003 – 2004.

Dendrology Lab, School of Forestry and Resource Conservation, National Taiwan University. Teaching Assistant. Fall 2002 – 2003.

## **MENTORING**

### **Committee Member**

Andrea Villamizar Gomez, Department of Biology, Texas State University (Ph.D., in progress).

David Poche, Department of Wildlife and Fisheries Sciences, Texas A&M University, December 2015. Thesis title: “Phlebotomine Sand Fly Control: Predicting the impact of alternative sand fly control methods, using simulation modelling, on the population dynamics of *Phlebotomus argentipes* (Diptera: Psychodidae) in Bihar, India” (M.S.).

Ivana Mali, Department of Biology, Texas State University, December 2014. Dissertation title: “Freshwater turtles as a renewable resource: Using the red-eared slider (*Trachemys scripta elegans*) as a model species” (Ph.D.).

### **Undergraduate Research Advisor**

Rebecca Aden, Department of Wildlife and Fisheries Sciences, Texas A&M University. Undergraduate thesis title: “Simulated effects of sex-ratio disparity on population dynamics of the endangered Houston toad (*Bufo houstonensis*)” (Spring 2016).

Aminta Arevilca, Department of Wildlife and Fisheries Sciences, Texas A&M University. Undergraduate thesis title: “Effects of gillnet entanglement on mortality of dusky dolphins (*Lagenorhynchus obscurus*)” (Spring 2016).

Anna Cole, Department of Wildlife and Fisheries Sciences, Texas A&M University. Undergraduate thesis title: “Effects of genetic depletion on estimating risk of extinction of the endangered Florida panther (*Puma concolor coryi*)” (Spring 2016).

Kaitlyn Forks, Department of Wildlife and Fisheries Sciences, Texas A&M University. Undergraduate thesis title: “Use of PVC pipes of different diameters as artificial refuges by green tree frogs (*Hyla cinerea*) in Texas” (Spring 2016).

Thanchira Suriyamongkol, Department of Wildlife and Fisheries Sciences, Texas A&M University. Undergraduate thesis title: “Effects of burning on relative abundances and morphological characteristics of green tree frog (*Hyla cinerea*) in Texas” (Spring 2016).

Undergraduate Research, Summer 2016. Two undergraduate students: Maria Camposeco (WFSC), Andrew Richardson (CVEN).

Undergraduate Research, Spring 2016. Fifteen undergraduate students: Rebecca Aden (WFSC), Kelsea Anthony (WFSC), Aminta Arevilca (WFSC), Kacy Beck (BESC), Maria Camposeco (WFSC), Chris Chen (ANSC), Anna Cole (WFSC), Lela Culpepper (ECOR/FORS), Jasmin Diaz-Lopez (WFSC), Kaitlyn Forks (WFSC), Hannah Gerke (WFSC), Samantha Murray (BESC), Brittany Stamps (WFSC), Sara Stephens (WFSC), and Thanchira Suriyamongkol (WFSC).

Undergraduate Research, Fall 2015. Fifteen undergraduate students: Rebecca Aden (WFSC), Kelsea Anthony (WFSC), Aminta Arevilca (WFSC), Kacy Beck (BESC), Chris Chen (ANSC), Anna Cole (WFSC), Lela Culpepper (ECOR/FORS), Kaitlyn Forks (WFSC), Hannah Gerke (WFSC), Erin McGrew (WFSC), Samantha Murray

(BESC), Marissa Ortega (WFSC), Brittany Stamps (WFSC), Sara Stephens (WFSC), and Thanchira Suriyamongkol (WFSC).

Undergraduate Research, Summer 2015. Five undergraduate students: Aminta Arevilca (WFSC), Kaitlyn Forks (WFSC), Erin McGrew (WFSC), Sara Stephens (WFSC), and Thanchira Suriyamongkol (WFSC).

Undergraduate Research, Spring 2015. Eight undergraduate students: Aminta Arevilca (WFSC), Kacy Beck (WFSC), Lela Culpepper (ECOR/FORS), Luis Elissetche (BESC), Erin McGrew (WFSC), Michael Scanlin (CVEN), Sara Stephens (WFSC), and Thanchira Suriyamongkol (WFSC).

Undergraduate Research, Spring 2013 – Fall 2013. One undergraduate student: Jesseca Buchhorn (WFSC).

NSF UBM (Undergraduate of Biology and Mathematics, National Science Foundation) program, Fall 2010 – Summer 2011. Adam Kley, Department of Mathematics, Texas A&M University.

### **HONORS AND AWARDS**

Elsevier Reviewer Recognition from the editors of Forest Ecology and Management. Elsevier, Amsterdam, The Netherlands. Feb. 2014.

Certificate of Excellence in Reviewing of Ecological Modelling. Elsevier, Amsterdam, The Netherlands. Dec. 2013.

1<sup>st</sup> Biennial Outstanding Reviewer Award from the International Society for Ecological Modelling, Toulouse, France. Oct. 2013.

2<sup>nd</sup> Place, Poster Competition in Ecology and Conservation, Texas A&M Student Research Week, College Station, TX. Mar. 2009.

1<sup>st</sup> Place, Poster Competition in Ecology and Conservation, Session Winner, and Environmental Health & Safety Recognition Award, Texas A&M Student Research Week, College Station, TX. Mar. 2008.

Honorable Mention, 2007 North America Taiwanese Engineers' Association (NATEA) Scholarship Program, Dallas Chapter. Nov. 2007.

3<sup>rd</sup> Place, Poster Competition in Ecology and Conservation, Texas A&M Student Research Week, College Station, TX. Apr. 2007.

1<sup>st</sup> Place, Poster Competition, Southern Forest Economics Workshop, San Antonio, TX. Mar. 2007.

Competitive fellowship in Departmental of Forest Science, Texas A&M University. College Station, TX. Aug. 2006.

3<sup>rd</sup> Place, Thesis Competition, Chinese Forestry Association Annual Academic Thesis Competition. Ilan, Taiwan. Nov. 2004.

Presidential Awards, National Taiwan University, Taipei, Taiwan. Jan. 2000.

### **PROFESSIONAL ORGANIZATIONS AND ACTIVITIES**

Member, Ecological Society of America (ESA), Jan. 2011 – Present.

Completed online course “Introduction to Complexity” with certificate offered by Santa Fe Institute, Santa Fe, New Mexico. Jan. 2014.

Event Coordinator, Graduate Student Organization, Department of Ecosystem Science and Management, Texas A&M University. Jan. 2009 – Dec. 2009.

Group Leader, Graduate Teaching Academy Steering Committee (GTASC), Texas A&M

University. Aug. 2008 – May 2009.  
 Officer, Taiwanese Student Organization, Texas A&M University. Aug. 2008 – May 2009.  
 Fellow, Graduate Teaching Academy (GTA), Texas A&M University. Aug. 2007 – May 2008.  
 Fellow, Wakonse South (College Teaching Association), Texas A&M University. Apr. 2008.  
 Member, Taiwanese Student Organization, Texas A&M University. Aug. 2006 – Dec. 2009.

## PRESENTATIONS

### Invited Presentation

**Wang, H.-H.** Jan. 2016. Modeling ecological dynamics in temporally variable, spatially heterogeneous environments: Using invasive plants as an example. FOR 587/687 Graduate Seminar, Stephen F. Austin State University, Nacogdoches, TX.  
**Wang, H.-H.,** W. E. Grant, and P. D. Teel. Oct. 2010. Vector-borne disease ecology: Dynamic islands in space and time, a basis for cloaking pathogens and emerging epizootics. Quantitative Biology Seminar, Texas A&M University, College Station, TX.  
**Wang, H.-H.** May 2010. Systems approach for modeling population dynamics: models and their applications. Quantitative Macroecology Lab, Utah State University, Logan, UT.

### Presentations at Scientific Meetings

(\*Undergraduate students; †Graduate students)

Poche, D.†, W. E. Grant, and **H.-H. Wang.** Jul. 2016. Visceral leishmaniasis on the Indian subcontinent: modelling the dynamic relationship between vector control schemes and vector lifecycles (oral presentation). IX International Symposium on Phlebotomine Sandflies (ISOPS). Reims, France.  
**Wang, H.-H.,** W. E. Grant, P. D. Teel. May 2016. Spatial ecology of invasive plants, native wildlife, and tick-borne disease risk: Honeysuckle, white-tailed deer, lone star ticks, and ehrlichiosis (oral presentation). The International Society for Ecological Modelling Global Conference 2016. Towson, MD.  
 Koralewski, T. E., **H.-H. Wang,** W.E. Grant, T.D. Byram. May 2016. Boosting plant migration: Boosted regression modelling as a tool to guide decisions on assisted migration of forest trees under changing climate (oral presentation). The International Society for Ecological Modelling Global Conference 2016. Towson, MD.  
 Camposeco, P.\*, J. Diaz-Lopez\*, T. Suriyamongkol\*, **H.-H. Wang,** and W. E. Grant. Apr. 2016. Simulated effects of oil spills and climate catastrophes on demography and population trends of Florida manatee (poster). Minorities in Agriculture, Natural Resources, and Related Sciences 31st Annual Conference. Jacksonville, FL.  
 Aden, R. E. \*, L. Culpepper\*, **H.-H. Wang,** I. Mali, W. E. Grant, and M. Forstner. Mar. 2016. Simulated effects of sex-ratio disparity on population dynamics of the endangered Houston toad (oral presentation). Texas A&M Student Research Week 2016. College Station, TX.  
 Arevilca, A. \*, S. Murray\*, M. Ortega\*, S. Stephens\*, **H.-H. Wang,** and W. E. Grant. Mar. 2016. Effects of gillnet entanglement on mortality of dusky dolphins (oral

- presentation). Texas A&M Student Research Week 2016. College Station, TX.
- Camposeco, P.\*, J. Diaz-Lopez\*, T. Suriyamongkol\*, **H.-H. Wang**, and W. E. Grant. Mar. 2016. Simulated effects of oil spills and climate catastrophes on demography and population trends of Florida manatee (poster). Texas A&M Student Research Week 2016. College Station, TX.
- Cole, A.\*, K. Anthony\*, C. Chen\*, **H.-H. Wang**, T. E. Koralewski, and W. E. Grant. Mar. 2016. Effects of genetic depletion on estimating risk of extinction of the endangered Florida panther (oral presentation). Texas A&M Student Research Week 2016. College Station, TX.
- Forks, K. N.\*, T. Suriyamongkol\*, E. McGrew\*, I. Mali, **H.-H. Wang**, W. Grant, A. Villamizar-Gomez, and M. Forstner. Mar. 2016. Use of PVC pipes of different diameters as artificial refuges by green tree frogs in Texas (poster). Texas A&M Student Research Week 2016. College Station, TX.
- Gerke, H. C.\*, K. Beck\*, B. Stamps\*, **H.-H. Wang**, and W. E. Grant. Mar. 2016. Effect of oil spills on populations of the loggerhead sea turtle (oral presentation). Texas A&M Student Research Week 2016. College Station, TX.
- Suriyamongkol, T.\*, K. Forks\*, E. McGrew\*, I. Mali, **H.-H. Wang**, W. E. Grant, A. Villamizar-Gomez, and M. Forstner. Mar. 2016. Effects of burning on relative abundances and morphological characteristics of green tree frog in Texas (poster). Texas A&M Student Research Week 2016. College Station, TX.
- Cole, A.\*, K. Anthony\*, C. Chen\*, **H.-H. Wang**, T. E. Koralewski, and W. E. Grant. Feb. 2016. Effects of genetic depletion on estimating risk of extinction of the endangered Florida panther (oral presentation). 52<sup>nd</sup> Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
- Forks, K. N.\*, T. Suriyamongkol\*, E. McGrew\*, I. Mali, **H.-H. Wang**, W. Grant, A. Villamizar-Gomez, and M. Forstner. Feb. 2016. Use of PVC pipes of different diameters as artificial refuges by green tree frogs in Texas (oral presentation). 52<sup>nd</sup> Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
- Gerke, H. C.\*, K. Beck\*, B. Stamps\*, **H.-H. Wang**, and W. E. Grant. Feb. 2016. Effect of oil spills on populations of the loggerhead sea turtle (poster). 52<sup>nd</sup> Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
- Arevilca, A.\*, S. Murray\*, M. Ortega\*, S. Stephens\*, **H.-H. Wang**, and W. E. Grant. Feb. 2016. Effects of gillnet entanglement on mortality of dusky dolphins (poster). 52<sup>nd</sup> Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
- Suriyamongkol, T.\*, K. Forks\*, E. McGrew\*, I. Mali, **H.-H. Wang**, W. Grant, A. Villamizar-Gomez, and M. Forstner. Feb. 2016. Effects of burning on relative abundances and morphological characteristics of green tree frog in Texas (poster). 52<sup>nd</sup> Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
- Aden, R. E.\*, L. Culpepper\*, E. McGrew\*, **H.-H. Wang**, I. Mali, W. E. Grant, and M. Forstner. Feb. 2016. Simulated effects of sex-ratio disparity on population dynamics of the endangered Houston toad (poster). 52<sup>nd</sup> Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
- Wang, H.-H.** Feb. 2016. Modeling ecological dynamics in temporally variable, spatially heterogeneous environments: invasive plants, native wildlife, and tick-borne disease risk (oral presentation). Graduate Lunchtime Seminar Series, Department of Wildlife and Fisheries Sciences, Texas A&M University. College Station, TX.



- Arevilca, A.\*, S. Stephens\*, M. Ortega\*, S. Murray\*, **H.-H. Wang**, W.E. Grant. Jan. 2016. Effects of gillnet entanglement on mortality of dusky dolphins (*Lagenorhynchus obscurus*) (poster). 6th Annual Graduate Program in Marine Biology Science Symposium. Corpus Christi, TX.
- Suriyamongkol, T.\*, M. P. Camposeco\*, J. Diaz-Lopez\*, **H.-H. Wang**, W.E. Grant. Jan. 2016. Demography and population trends of Florida manatee (*Trichechus manatus latirostris*) (poster). 6th Annual Graduate Program in Marine Biology Science Symposium. Corpus Christi, TX.
- Koralewski T.E., T.D. Byram, **H.-H. Wang**, W.E. Grant. Nov. 2015. Modeling responses of forest trees to changing climate based on historical provenance trial data (oral presentation). Camcore 2015 Annual Meeting. College Station, TX.
- Urdaz-Rodríguez, J.H., R.J. Miller, P.D. Teel, I. Castro-Arellano, F.D. Guerrero, M.T. Messenger, F.V. Soltero, W.E. Grant, **H.-H. Wang**, C. Oliver-Canabal, M. Cómas-Pagán, and A.P. de León. Nov. 2015. Integrated tick management to mitigate the impact of *Rhipicephalus microplus*, bovine anaplasmosis, and bovine babesiosis in livestock farming systems of Puerto Rico (poster). International Society for the Veterinary Epidemiology and Economics (ISVEE) 14th Conference. City of Merida, Yucatan, Mexico.
- Suriyamongkol, T.\*, K. Forks\*, E. McGrew\*, A. Villamizar-Gomez, I. Mali, **H.-H. Wang**, W.E. Grant, and M. Forstner. Nov. 2015. Post-wildfire comparison of *Hyla cinerea* in burned and unburned areas near Bastrop, Texas (poster). Texas Herpetological Society 2015 Fall Symposium. San Marcos, TX.
- McGrew, E.\*, S. Stephens\*, **H.-H. Wang**, W. E. Grant. Sep. 2015. Recent expansion of an invasive vine, Japanese honeysuckle (*Lonicera japonica*), in eastern Texas forestlands from 2006 to 2011 (poster). 2015 Sigma Xi/LAUNCH Undergraduate Research Expo. College Station, TX.
- Beck, K.\*, L. Culpepper\*, E. McGrew\*, T. Suriyamongkol\*, **H.-H. Wang**, and W. E. Grant. Sep. 2015. Recent range expansions by the most prevalent invasive tree, Chinese tallow (*Triadica sebifera* (L.) Small), in the forestlands of eastern Texas (poster). 2015 Sigma Xi/LAUNCH Undergraduate Research Expo. College Station, TX.
- Arevilca, A.\*, L. Elissetche\*, M. Scanlin\*, S. Stephens\*, **H.-H. Wang**, and W. E. Grant. Sep. 2015. Invasion of eastern Texas forestlands by the most prevalent invasive shrub, Chinese and European privets (*Ligustrum sinense* Lour and *L. vulgare* l.) (poster). 2015 Sigma Xi/LAUNCH Undergraduate Research Expo. College Station, TX.
- Wang, H.-H.**, P.D. Teel, W. E. Grant. Aug. 2015. Role of white-tailed deer as a host for the cattle fever tick (*Rhipicephalus (Boophilus) microplus*) in south Texas, USA: A spatially-explicit model (poster). 100<sup>th</sup> Ecological Society of America Annual Meeting, Baltimore, MD.
- Koralewski, T. E., **H.-H. Wang**, W. E. Grant and T. D. Byram. Aug. 2015. Mitigating climate change effects on plants through assisted migration with the application of a modeling approach: A lesson from forest trees (poster). 100<sup>th</sup> Ecological Society of America Annual Meeting, Baltimore, MD.
- McGrew, E.\*, S. Stephens\*, **H.-H. Wang**, W. E. Grant. Aug. 2015. Recent expansion of an invasive vine, Japanese honeysuckle (*Lonicera japonica*), in eastern Texas forestlands from 2006 to 2011 (poster). Summer 2015 Undergraduate Research Poster Session.

College Station, TX.

- Suriyamongkol, T.\*, K. Forks\*, A. Arevilca\*, E. McGrew\*, A. Villamizar-Gomez, I. Mali, **H.-H. Wang**, W. Grant, and M. Forstner. Aug. 2015. Post-wildfire comparison of the herpetofauna in burned and unburned areas near Bastrop, Texas (poster). Summer 2015 Undergraduate Research Poster Session. College Station, TX.
- Teel, P. D., **H.-H. Wang**, J. H. Urdaz, W. E. Grant, F. Guerrero, M. Messenger, F. V. Soltero, C. Oliver-Canabal, M. Comas-Pagán, R. J. Miller, A. A. Pérez de León. Jul. 2015. Simulation Tools for Integrated Tick Management of the Southern Cattle Fever Tick, *Rhipicephalus (Boophilus) microplus*, in Puerto Rico. The American Association of Veterinary Parasitologists 60th Annual Meeting. Boston, MA.
- Koralewski, T. E., T. D. Byram, **H.-H. Wang**, and W. E. Grant. Jun. 2015. Deployment and procurement of Loblolly pine (*Pinus taeda* L.) seed sources guided by the application of Categorical Universal Response Function (CURF) (oral presentation). The role of tree improvement in a changing environment. The 33rd Southern Forest Tree Improvement Conference. Hot Spring, AR.
- Koralewski, T. E., T. D. Byram, **H.-H. Wang**, and W. E. Grant. Jun. 2015. Supporting loblolly pine deployment and procurement decisions: A modeling approach. (poster) The 33rd Southern Forest Tree Improvement Conference. Hot Spring, AR.
- Koralewski, T. E., T. D. Byram, **H.-H. Wang**, and W. E. Grant. Jun. 2015. Supporting loblolly pine deployment and procurement decisions: A modeling approach (poster). PINEMAP 2014 Annual Meeting. Atlanta, GA.
- Koralewski, T. E., T. D. Byram, **H.-H. Wang**, and W. E. Grant. May 2015. Where from and where to: Using climate models to guide deployment (oral presentation). The Future of Forest Genetics. Western Gulf Forest Tree Improvement Program, Contact Representatives Meeting. College Station, TX.
- Fairs, A., **H.-H. Wang**, A. Tarone, and W. E. Grant. May 2015. An ecological modeling approach for quantifying uncertainty associated with insect age estimates (oral presentation). The 12th Meeting of the European Association for Forensic Entomology. Huddersfield, UK.
- Beck, K.\*, L. Culpepper\*, E. McGrew\*, T. Suriyamongkol\*, **H.-H. Wang**, and W. E. Grant. Apr. 2015. Recent range expansions by the most prevalent invasive tree, Chinese tallow (*Triadica sebifera* (L.) Small), in the forestlands of eastern Texas (oral presentation). The Sixth Big Thicket and West Gulf Coastal Plain Science Conference. Nacogdoches, TX.
- Arevilca, A.\*, L. Elissetche\*, M. Scanlin\*, S. Stephens\*, **H.-H. Wang**, and W. E. Grant. Apr. 2015. Invasion of eastern Texas forestlands by the most prevalent invasive shrub, Chinese and European privets (*Ligustrum sinense* Lour and *L. vulgare* l.) (oral presentation). The Sixth Big Thicket and West Gulf Coastal Plain Science Conference. Nacogdoches, TX.
- Poche, D.†, W. E. Grant, and **H.-H. Wang**. Mar. 2015. Visceral Leishmaniasis in Bihar, India: Simulating alternative control strategies using Fipronil orally administered to livestock (oral presentation). Ecological Integration Symposium, Texas A&M University. College Station, TX.
- Beck, K.\*, L. Culpepper\*, E. McGrew\*, T. Suriyamongkol\*, **H.-H. Wang**, and W. E. Grant. Mar. 2015. Recent range expansions by the most prevalent invasive tree, Chinese tallow (*Triadica sebifera* (L.) Small), in the forestlands of eastern Texas

- (poster). Texas A&M Student Research Week 2015. College Station, TX.
- Arevilca, A.\*, L. Elissetche\*, M. Scanlin\*, S. Stephens\*, **H.-H. Wang**, and W. E. Grant. Mar. 2015. Invasion of eastern Texas forestlands by the most prevalent invasive shrub, Chinese and European privets (*Ligustrum sinense* Lour and *L. vulgare* l.) (poster). Texas A&M Student Research Week 2015. College Station, TX.
- Poche, D.<sup>†</sup>, W. E. Grant, and **H.-H. Wang**. Mar. 2015. Neglected tropical disease: simulating control of Phlebotomine sand flies, the vector for Visceral Leishmaniasis, in Bihar, India (oral presentation). WFSC Friday Graduate Lunchtime Seminar, Texas A&M University. College Station, TX.
- Wang, H.-H.**, C. L. Wonkka, M. L. Treglia, W. E. Grant, F. E. Smeins, and W. E. Rogers. Nov. 2014. Determinants and likelihood of occurrence of an endangered endemic orchid (*Spiranthes parksii* (correll)) in central Texas (oral presentation). Texas Plant Conservation Conference. Austin, TX.
- Fairs, A., **H.-H. Wang**, W. E. Grant, and A. Tarone. Nov. 2014. Ecological modeling helps to dissect local temporal variation in entomology-based PMI estimates (oral presentation). Entomological Society of America Annual Meeting 2014. Portland, OR.
- Poche, D.<sup>†</sup>, W. E. Grant, and **H.-H. Wang**. Oct. 2014. Modeling alternative sand fly control strategies using systemic insecticides orally administered to livestock in Bihar, India (oral presentation). Vector Biology Seminar, Texas A&M University. College Station, TX.
- Poche, D.<sup>†</sup>, W. E. Grant, and **H.-H. Wang**. Sep. 2014. Sand fly control in Bihar, India: Modeling alternative control strategies using systemic insecticides orally administered to livestock (oral presentation). VIII International Symposium on Phlebotomine Sandflies (ISOPS). Iguazu, Argentina.
- Wang, H.-H.**, W. E. Grant, P. D. Teel, and S. A. Hamer. Jun. 2014. Tick-borne infectious agents in nature: Simulated effects of host community changes on spatial-temporal prevalence in three-host ticks (oral presentation). 64th James Steele Conference on Disease in Nature Transmissible to Man. Irving, TX.
- Poche, D.<sup>†</sup>, **H.-H. Wang**, R. Garlapati, and W. E. Grant. Jun. 2014. Visceral Leishmaniasis in India: Simulation of alternative control strategies using systemic insecticides orally administered to cattle (oral presentation). 64th James Steele Conference on Disease in Nature Transmissible to Man. Irving, TX.
- Koralewski, T. E., **H.-H. Wang**, W. E. Grant and T. D. Byram. May 2014. In search of optimal strategies for delineating assisted migration guidelines as applied to loblolly pine families from the Western Gulf region of the USA (poster). PINEMAP 2014 Annual Meeting. Atlanta, GA.
- Poche, D.<sup>†</sup>, **H.-H. Wang**, R. Garlapati, and W. E. Grant. Mar. 2014. Visceral Leishmaniasis in India: Modeling alternative control strategies using systemic insecticides orally administered to cattle (oral presentation). Ecological Integration Symposium, Texas A&M University. College Station, TX.
- Randklev, C. R., **H.-H. Wang**, W. E. Grant, J. E. Groce, B. Sowards, M. Fisher, A. Blair, S. Robertson, and R. Lopez. Mar. 2013. The influence of land use and spatial scale on the distribution of *Quadrula houstonensis* in the Leon river, Brazos river basin, Texas (oral presentation). Freshwater Unionid Symposium. San Marcos, TX.
- Wang, H.-H.**, C.-L. Liu, W. E. Grant, W. L. Griffin, and D. J. Leatham. Sep. 2011. A general fishery assessment model for annual-crop marine fisheries (poster). IAMCS

- Workshop: Ecosystem Modeling, Simulation and Assessment. College Station, TX.
- Wang, H.-H.**, W. E. Grant, J. Gan, W. E. Rogers, T. M. Swannack, T. E. Koralewski, J. H. Miller and J. W. Taylor. Aug. 2011. Predicted range expansion of Chinese tallow tree (*Triadica sebifera*) in forestlands of the southern United States (oral presentation). 96<sup>th</sup> Ecological Society of America Annual Meeting, Austin, TX.
- Gan, J., J. H. Miller, **H.-H. Wang**, and J. W. Taylor, Jr. Oct. 2009. Tallowtree invasion on southern forestland: Occupation, predicted spread, and mitigation (oral presentation). Society of American Foresters (SAF) National Convention. Orlando, FL.
- Wang, H.-H.** and J. Gan. Mar. 2009. Linking the occupation model to dispersal of Chinese tallowtrees in East Texas and Louisiana (poster). Ecological Integration Symposium. College Station, TX.
- Wang, H.-H.** and J. Gan. Mar. 2009. Linking the occupation model to dispersal of Chinese tallowtrees in East Texas and Louisiana (poster). Texas A&M Student Research Week. College Station, TX.
- Gan, J., J. H. Miller, **H.-H. Wang**, V. Rudis, and J. W. Taylor, Jr. Oct. 2008. Occupation, spread, impacts, and mitigation of Chinese tallowtree in the southern United States (oral presentation). 35th Annual Natural Areas Conference. Nashville, TN.
- Wang, H.-H.** and J. Gan. Mar. 2008. Determinants for occupation of Chinese tallowtrees in East Texas and Louisiana (poster). Ecological Integration Symposium. College Station, TX.
- Wang, H.-H.** and J. Gan. Mar. 2008. Determinants for occupation of Chinese tallowtrees in East Texas and Louisiana (poster). Texas A&M Student Research Week. College Station, TX. College Station, TX.
- Wang, H.-H.** and J. Gan. Jan. 2008. Determinants for occupation of Chinese tallowtrees in East Texas (poster), Student Research Poster Competition, Texas A&M AgriLife Conference. College Station, TX.
- Wang, H.-H.**, C.-R. Chiou, C. Lin, and J. Gan. Apr. 2007. Applying theory of reasoned action for forest fires mechanism in Wu-Lin, Taiwan (poster), Texas A&M Student Research Week. College Station, TX.
- Wang, H.-H.**, C.-R. Chiou, C. Lin, and J. Gan. Mar. 2007. Applying theory of reasoned action for forest fires mechanism in Wu-Lin, Taiwan (poster), Southern Forest Economics Workshop. San Antonio, TX.
- Wang, H.-H.**, C.-R. Chiou, and H. Lin. Oct. 2005. The application of the multimedia geographical information system to trail interpretation in Lin-Mei stone trail (oral presentation), Geographic Information Society Conference. Taichung, Taiwan.
- Wang, H.-H.**, C.-R. Chiou, and C. Lin. Jun. 2005. Investigation for fire use behavior of residences in forest district of Wu-Lin area (oral presentation), Forest Fire Ecology and Management Conference. Taipei, Taiwan.
- Wang, H.-H.**, C.-R. Chiou, and C. Lin. Dec. 2004. The investigation for fire use behavior of residences in forest district (oral presentation), Mountain and Forestry Forum. Taipei, Taiwan.
- Wang, H.-H.**, C.-R. Chiou, and C. Lin. Nov. 2004. The application of the theory of reasoned action to fire use behavior of farmers in Wu-Lin area (oral presentation), Chinese Forestry Association Academic. Ilan, Taiwan.
- Wang, H.-H.** and C.-R. Chiou. Oct. 2003. Development strategy in forestry knowledge management research (oral presentation), Application of the Information Technology

to Agriculture Conference. Taipei, Taiwan.

**VOLUNTEER SERVICE**

Volunteer Judge, Student Research Week, Texas A&M University, College Station, Texas.  
Mar. 2016.

Volunteer Judge, Student Research Week, Texas A&M University, College Station, Texas.  
Mar. 2015.

Volunteer Judge in 12th Ecological Integration Symposium 2011, Texas A&M University,  
College Station, Texas. Mar. 2011.

Volunteer Judge, 2nd Annual Science Fair at Harmony Science Academy, Bryan/College  
Station, Texas. Nov. 2008.

Volunteer Story Reader, Municipal Xingan Elementary School, Taipei, Taiwan. Sep. 2004  
– Jun. 2006.

Volunteer Tutor (Introduction of Natural Science and Mathematics), Neihu Vocational  
High School, Taipei, Taiwan. Sep. 1998 – Jun. 2006.