

## Curriculum Vitae

### HSIAO-HSUAN (ROSE) WANG

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#### EDUCATION

- 2006–2009 Ph.D., Department of Ecosystem Science and Management, Texas A&M University, College Station, TX, USA. Dissertation: Occupation, dispersal, and economic impact of major invasive plant species in southern U.S. forests.
- 2002–2004 M.S., School of Forestry and Resource Conservation, National Taiwan University, Taipei, Taiwan. Thesis: The application of the theory of reasoned action to fire use behavior of farmers in Wu-Lin area.
- 1998–2002 B.S., School of Forestry and Resource Conservation, National Taiwan University, Taipei, Taiwan.

#### ACADEMIC APPOINTMENTS

- 2018–Present Senior Research Scientist, Ecological Systems Laboratory, Department of Ecology and Conservation Biology, Texas A&M University. (2018 – 2019 Former Department of Wildlife and Fisheries Sciences)
- 2015–Present Associate Member of Graduate Faculty, Department of Ecology and Conservation Biology, Texas A&M University. (2015 – 2019 Former Department of Wildlife and Fisheries Sciences)
- 2012–2021 Adjunct Doctoral Faculty, Department of Biology, Texas State University.
- 2016–2018 Research Scientist, Ecological Systems Laboratory, Department of Wildlife and Fisheries Sciences, Texas A&M University.
- 2014–2016 Assistant Research Scientist, Ecological Systems Laboratory, Department of Wildlife and Fisheries Sciences, Texas A&M University.
- 2010–2014 Post-doctoral Research Associate, Ecological Systems Laboratory, Department of Wildlife and Fisheries Sciences, Texas A&M University.
- 2006–2009 Graduate Research/Teaching Assistant, Department of Ecosystem Science and Management, Texas A&M University.
- 2004–2006 Research Assistant, School of Forestry and Resource Conservation, National Taiwan University.
- 2002–2004 Graduate Teaching Assistant, School of Forestry and Resource Conservation, National Taiwan University.

#### PROFESSIONAL SERVICE

- 2021–Present Co-Editor-in-Chief, *Ecological Modelling* (Elsevier).
- 2019–Present Associate Editor, *Plant Ecology* (Springer).
- 2016–Present Associate Editor, *Biological Invasions* (Springer).
- 2009–Present Reviews for scientific journals including *Agriculture and Forest Meteorology*, *Agriculture Systems*, *American Journal of Tropical Medicine and Hygiene*, *Biodiversity and Conservation*, *Communications Biology*,

*Ecological Complexity, Ecological Modelling, Environmental Modelling and Software, Forest Ecology and Management, Forests, International Journal of Environmental Research and Public Health, Invasive Plant Science and Management, Journal of Medical Entomology, Journal of Vegetation Science, Methods in Ecology and Evolution, Plant Ecology, PLoS Neglected Tropical Diseases, PLoS ONE, Rangeland Ecology & Management, Royal Society Open Science, Science of the Total Environment, Socio-Environmental Systems Modelling, Sustainability, and Vector-Borne and Zoonotic Diseases.*

- 2020–2022 Group Leader, Lorentz Workshop: Modelling social-ecological systems across scales, and with participatory methods, Lorentz Center (Lorentz@Snellius), Leiden, the Netherlands.
- 2022 Reviewer for research proposal, Beef Cattle Research Council (BCRC), Canada.
- 2019–2021 Co-PI and workshop organizer, Pursuits: Simultaneously managing scale and uncertainty using innovative software design concepts in a tiered, system-of-systems modeling framework. The National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD.
- 2019 Symposium Chair, Modelling integrated ecological (physical-ecological-social) systems: Challenges of establishing linkages to and from ecological components. The International Society for Ecological Modelling Global Conference 2019. Salzburg, Austria.
- 2019 Editor, Editor Speed Review Sessions. The International Society for Ecological Modelling Global Conference 2019. Salzburg, Austria.
- 2019 Abstract Review Committee, International Biogeography Society (IBS) Meeting 2019, Quito, Ecuador.
- 2018–2020 Associate Editor, *Ecological Modelling* (Elsevier).
- 2016–2019 Seminar committee, Department of Wildlife and Fisheries Sciences, Texas A&M University.
- 2016–2018 Guest Editor, Special Issue: Ecological modelling global conference 2016: 20th biennial ISEM conference, 8–12 May 2016, Towson, Maryland, USA, *Ecological Modelling* (Elsevier).
- 2015–2018 Subject Editor, *Ecological Modelling* (Elsevier).
- 2016 Scientific Advisory Board, International Society for Ecological Modelling Global Conference 2016, Towson, MD, USA.
- 2016 Symposium Chair, Modeling ecological dynamics in temporally variable, spatially heterogeneous environments. The International Society for Ecological Modelling Global Conference 2016, Towson, MD, USA.
- 2013–2015 Editor Board, *Ecological Modelling* (Elsevier).

## **PUBLICATIONS**

### **Book**

1. **Wang, H.-H.** and W. E. Grant. In press. Ecological Modeling: An Introduction to the Art and Science of Modeling Ecological Systems. Elsevier. Philadelphia, PA. Paperback ISBN: 9780444641632, eBook ISBN: 9780444641649

### **Book Chapters**

1. **Wang, H.-H.** and W. E. Grant. 2020. Chapter 21. Simulation Modeling in Wildlife Management. N. Silvy (eds.), *The Wildlife Techniques Manual. Volume 1: Research*: 483-494. 8th ed. John Hopkins University Press. Baltimore, MD.

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

82. Koralewski, T. E., **H.-H. Wang**, W. E. Grant, M. J. Brewer, N. C. Elliott. In press. Error propagation in an integrated spatially-explicit individual-based model. *Ecological Modelling*.
81. **Wang, H.-H.**, W. E. Grant, T. G. Donaldson, P. D. Teel. Simulation of host-parasite-landscape interactions: Effects of vertebrate exclosures and host-targeted acaricides on local distribution and abundance of the lone star tick, *Amblyomma americanum* (L.). *Pathogens* 11:1412. DOI: 10.3390/pathogens11121412
80. Xu, Kai, M. Chen, A. J. Kettner, C. M. Barton, B. F. W. Croke, A. J. Jakeman, D. P. Ames, **H.-H. Wang**, S. M. Cuddy, S. Yue, Y. Wen, F. Zhang, Y. Zhang, and G. Lü. 2022. A new academic impact metric for evaluating geographic simulation models. *International Journal of Digital Earth* 15: 1856-1881. DOI: 10.1080/17538947.2022.2138589
79. Hüe, T., **H.-H. Wang**, W. E. Grant, P. D. Teel, and A. A. Pérez de León. 2022. Implementation research for integrated tick control of *Rhipicephalus australis* (Acari: Ixodidae) through the pasture and cattle management method in New Caledonia. *Journal of Integrated Pest Management* 13:26. DOI: 10.1093/jipm/pmac021
78. Bishop, A.\*, J. Borski\*, **H.-H. Wang**, A. Michalk\*, A. Montgomery\*, S. Heldman\*, M. Mogg\*, Z. Derouen\*, T. G. Donaldson, P. D. Teel, and W. E. Grant. 2022. Increasing incidence of spotted fever group rickettsioses in the United States, 2010-2018. *Vector-Borne and Zoonotic Diseases* 22. DOI: 10.1089/vbz.2022.0021
77. Iwanaga, T., P. Steinmann, A. Sadoddin, D. T. Robinson, V. Snow, V. Grimm, and **H.-H. Wang**. 2022. Perspectives on confronting issues of scale in systems modeling. *Socio-Environmental Systems Modeling* 4. DOI: 10.18174/sesmo.18156
76. Elkins, Blake H.†, M. D. Eubanks, A. M. Faris, **H.-H. Wang**, and M. J. Brewer. 2022. Landscape Complexity has mixed effects on an invasive aphid and its natural enemies in sorghum agroecosystems. *Environmental Entomology* 51:660–669. DOI: 10.1093/ee/nvac036
75. Brockinton, E.\*, M. R. Peterson†, **H.-H. Wang**, and W. E. Grant. 2022. Importance of anthropogenic determinants of *Tubastraea coccinea* invasion in the northern Gulf of Mexico. *Water* 14:1365. DOI: 10.3390/w14091365
74. Brewer, M. J., N. C. Elliott, I. L. Esquivel, A. L. Jacobson, A. M. Faris, A. Szczepaniec, B. H. Elkins, J. W. Gordy, A. J. Pekarck, **H.-H. Wang**, T. E. Koralewski, K. L. Giles, C. N. Jessie, and W. E. Grant. 2022. Natural enemies, mediated by landscape and weather conditions, shape response of the sorghum agroecosystem of North America to the invasive aphid *Melanaphis sorghi*. *Frontiers in Insect Science* 2:830997. DOI: 10.3389/finsc.2022.830997
73. Koralewski, T. E., **H.-H. Wang**, W. E. Grant, M. J. Brewer, N. C. Elliott. 2022. Evaluation of areawide forecasts of wind-borne crop pests: Sugarcane aphid (Hemiptera: Aphididae) infestations of sorghum in the Great Plains of North America. *Journal of Economic Entomology* 115:863-868. DOI: 10.1093/jee/toac035
72. Suriyamongkol, T.\*, K. Forks\*, A. Villamizar-Gomez†, **H.-H. Wang**, W. E. Grant, M. R. J. Forstner, and I. Mali. 2021. A simple conservation tool to aid restoration of

- amphibians following high-severity wildfires: Use of PVC pipes by green tree frogs (*Hyla cinerea*) in central Texas, USA. *Diversity* 13:649. DOI: 10.3390/d13120649.
71. Villamizar-Gomez, A.<sup>†</sup>, **H.-H. Wang**, M. R. Peterson<sup>†</sup>, W. E. Grant, and M. R. J. Forstner. 2021. Environmental determinants of *Batrachochytrium dendrobatidis* and the likelihood of further dispersion in the face of climate change in Texas, USA. *Diseases of Aquatic Organisms* 146:29-39. DOI: 10.3354/dao03613.
  70. **Wang, H.-H.**, W. E. Grant, T. E. Koralewski, M. J. Brewer, and N. C. Elliott. 2021. Simulating migration of wind-borne pests: “Deconstructing” representation of the emigration process. *Ecological Modelling* 460:109742. DOI: 10.1016/j.ecolmodel.2021.109742.
  69. Hüe, T., A. Berger, **H.-H. Wang**, W. E. Grant, P. D. Teel, and A. A. Pérez de León. 2021. Integrated control of the cattle tick, *Rhipicephalus australis*, in New Caledonia through the Pasture and Cattle Management method. *Parasitology Research* 120:2749–2758. DOI: 10.1007/s00436-021-07235-3.
  68. Hüe, T., C. Fontfreyde, **H.-H. Wang**, W. E. Grant, P. D. Teel, and A. A. Pérez de León. 2021. Optimization of long lasting acaricide treatments against cattle ticks in New Caledonia. *Tropical Animal Health and Production* 53:384. DOI: 10.1007/s11250-021-02816-x.
  67. Elliott, N., K. Giles, M. Brewer, A. Szczepaniec, A. Knutson, J. P. Michaud, C. Jessie, A. Faris, B. Elkins, **H.-H. Wang**, T. E. Koralewski, and W. E. Grant, 2021. Recruitment of natural enemies of the invasive sugarcane aphid vary spatially and temporally in sorghum fields in the Southern Great Plains of the USA. *Southwestern Entomologist* 46:357-372. DOI: 10.3958/059.046.0207.
  66. Iwanaga, T., **H.-H. Wang**, T. E. Koralewski, W. E. Grant, A. J. Jakeman, and J. C. Little. 2021. Toward a complete interdisciplinary treatment of scale: Reflexive lessons from socioenvironmental systems modeling. *Elementa: Science of the Anthropocene* 9:00182. DOI: 10.1525/elementa.2020.00182.
  65. **Wang, H.-H.**, W. E. Grant, P. D. Teel, Lohmeyer, K. H., and A. A. Pérez de León. 2021. Simulated dynamics of southern cattle fever ticks (*Rhipicephalus (Boophilus) microplus*) in south Texas, USA: Investigating potential wildlife-mediated impacts on eradication efforts. *Parasites & Vectors* 14:231. DOI: 10.1186/s13071-021-04724-3.
  64. Bishop, A.\*, **H.-H. Wang**, and W. E. Grant. 2021. Using data surveillance to understand the rising prevalence of babesiosis infections in the United States, 2011 – 2018. *Vector-Borne and Zoonotic Diseases* 21:391-395. DOI: 10.1089/vbz.2020.2754.
  63. Koralewski, T. E., **H.-H. Wang**, W. E. Grant, M. J. Brewer, N. C. Elliott, and J. K. Westbrook. 2021. Modeling the dispersal of wind-borne pests: Sensitivity of infestation forecasts to uncertainty in parameterization of long-distance airborne dispersal. *Agricultural and Forest Meteorology* 301:108357. DOI: 10.1016/j.agrformet.2021.108357.
  62. Agudelo, M.S., W. E. Grant, and **H.-H. Wang**. 2021. Effects of white-tailed deer habitat use preferences on southern cattle fever tick eradication: simulating impact on “pasture vacation” strategies. *Parasites & Vectors* 14:102. DOI: 10.1186/s13071-021-04590-z.
  61. Pełkalski, A. and **H.-H. Wang**. 2021. Plant coexistence without asymmetry in competitor-colonizer abilities or spatially heterogeneity in the distribution of

- resources. *Ecosphere* 12:e03353. DOI: 10.1002/ecs2.3353.
60. **Wang, H.-H.** and W. E. Grant. 2021. Reflections of two systems ecologists on modelling coupled human and natural (socio-ecological, socio-environmental) systems. *Ecological Modelling* 440:109403. DOI: 10.1016/j.ecolmodel.2020.109403.
  59. Iwanaga, T., **H.-H. Wang**, S. Hamilton, V. Grimm, T. E. Koralewski, A. Salado, S. Elsworth, S. Razavi, J. Yang, P. Glynn, J. Badham, A. Voinov, M. Chen, W. E. Grant, T. R. Peterson, K. Frank, G. Shenk, C M. Barton, T. Jakeman, and J. Little. 2021. Socio-technical scales in socio-environmental modeling: managing a system-of-systems modeling approach. *Environmental Modelling & Software* 135:104885. DOI: 10.1016/j.envsoft.2020.104885.
  58. Derouen, Z. C.\*, M. R. Peterson\*, **H.-H. Wang**, and W. E. Grant. 2020. Determinants of *Tubastraea coccinea* invasion and likelihood of further expansion in the northern Gulf of Mexico. *Marine Biodiversity* 50:1-11. DOI: 10.1007/s12526-020-01126-z.
  57. Koo, H., T. Iwanaga, B. F. W. Croke, A. J. Jakeman, J. Yang, **H.-H. Wang**, X. Sun, G. Lü, X. Li, T. Yue, W. Yuan, X. Liu, and M. Chen. 2020. Sensitivity analysis of spatially distributed environmental models: A pragmatic framework for the exploration of uncertainty sources. *Environmental Modelling & Software* 134: 104857. DOI: 10.1016/j.envsoft.2020.104857.
  56. Koralewski, T. E., **H.-H. Wang**, W. E. Grant, J. H LaForest, M. J. Brewer, N. C. Elliott, and J. K. Westbrook. 2020. Toward near-real-time forecasts of airborne crop pests: Aphid invasions of cereal grains in North America. *Computers and Electronics in Agriculture* 179:105861. DOI: 10.1016/j.compag.2020.105861.
  55. Baker, A. \*, **H.-H. Wang**, M. Mogg\*, Z. Derouen\*, J. Borski\*, and W. E. Grant. 2020. Increasing incidence of Anaplasmosis in the United States, 2012 through 2016. *Vector-Borne and Zoonotic Diseases* 20:855-859. DOI: 10.1089/vbz.2019.2598.
  54. **Wang, H.-H.**, W. E. Grant, T. E. Koralewski, N. C. Elliott, M. J. Brewer, and J. K. Westbrook. 2020. Where do all the aphids go? A series of thought experiments within the context of area-wide pest management. *Agricultural Systems* 185:102957. DOI: 10.1016/j.agsy.2020.102957.
  53. **Wang, H.-H.**, W. E. Grant, P. D. Teel, Lohmeyer, K. H., and A. A. Pérez de León. 2020. Enhanced biosurveillance of high-consequence invasive pests: cattle fever ticks on livestock and wildlife. *Parasites & Vectors* 13:487. DOI: 10.1186/s13071-020-04366-x.
  52. **Wang, H.-H.**, W. E. Grant, R. Teague. 2020. Modeling rangelands as spatially-explicit complex adaptive systems. *Journal of Environmental Management* 269:110762. DOI: 10.1016/j.jenvman.2020.110762.
  51. Fern, R. R.<sup>†</sup>, M. L. Morrison, W. E. Grant, **H.-H. Wang**, and T. A. Campbell. 2020. Modeling the influence of livestock grazing pressure on grassland bird distributions. *Ecological Processes* 9:42. DOI: 10.1186/s13717-020-00244-7.
  50. Mogg, M.\*, **H.-H. Wang**, A. Baker\*, Z. Derouen\*, J. Borski\*, and W. E. Grant. 2020. Increased incidence of *Ehrlichia chaffeensis* infections in the United States, 2012 through 2016. *Vector-Borne and Zoonotic Diseases* 20:547-550. DOI: 10.1089/vbz.2019.2595.
  49. Poché, D. M., **H.-H. Wang**, and W. E. Grant. 2020. Visceral leishmaniasis on the Indian Subcontinent: efficacy of fipronil-based cattle treatment in controlling sand fly populations is dependent on specific aspects of sand fly ecology. *PLOS Neglected*

- Tropical Diseases 14:e0008011. DOI: 10.1371/journal.pntd.0008011.
48. Koralewski, T. E., **H.-H. Wang**, W. E. Grant, M. J. Brewer, N. C. Elliott, J. K. Westbrook, A. Szczepaniec, A. Knutson, K. L. Giles, and J.P. Michaud. 2020. Integrating models of atmospheric dispersion and crop-pest dynamics: Linking detection of local aphid infestations to forecasts of region-wide invasion of cereal crops. *Annals of the Entomological Society of America* 113:79-87. DOI: 10.1093/aesa/saz047.
  47. French, J., **H.-H. Wang**, W. E. Grant, and J. Tomecek. 2019. Dynamics of animal joint space use: A novel application of a time series approach. *Movement Ecology* 7:38. DOI: 10.1186/s40462-019-0183-3.
  46. Banerjee, P., **H.-H. Wang**, M. J. Peterson, W. E. Grant, and T. R. Peterson. 2019. Collaborative modeling and social learning in the context of Joint Forest Management in East Sikkim, India. *Frontiers in Environmental Science* 7:154. DOI: 10.3389/fenvs.2019.00154.
  45. Fern, R. R.<sup>†</sup>, M. L. Morrison, **H.-H. Wang**, W. E. Grant, and T. A. Campbell. 2019. Incorporating biotic relationships improves species distribution models: Modeling the temporal influence of competition in conspecific nesting birds. *Ecological Modelling* 408:108743. DOI: 10.1016/j.ecolmodel.2019.108743.
  44. Koralewski, T. E., J. K. Westbrook, W. E. Grant, and **H.-H. Wang**. 2019. Coupling general physical environmental process models with specific question-driven ecological simulation models. *Ecological Modelling* 405:102-105. DOI: 10.1016/j.ecolmodel.2019.02.004.
  43. Twidwell, D., C. L. Wonkka, **H.-H. Wang**, W. E. Grant, C. R. Allen, S. D. Fuhlendorf, A. Garmestani, D. Angeler, C. A. Taylor, U. P. Kreuter, W. E. Rogers. 2019. Coerced resilience in grassland fire management. *Journal of Environmental Management* 240:368-373. DOI: 10.1016/j.jenvman.2019.02.
  42. **Wang, H.-H.**, W. E. Grant, N. C. Elliott, M. J. Brewer, T. E. Koralewski, J. K. Westbrook, T. M. Alves, and G. A. Sword. 2019. Integrated modelling of the life cycle and aeroecology of wind-borne pests in temporally-variable spatially- heterogeneous environment. *Ecological Modelling* 399:23-38. DOI: 10.1016/j.ecolmodel.2019.02.014.
  41. **Wang, H.-H.**, P. D. Teel, W. E. Grant, F. Soltero, J. Urdaz, J. E. P. Ramírez, R. J. Miller, and A. A. Pérez de León. 2019. Simulation tools for assessment of tick suppression treatments of *Rhipicephalus (Boophilus) microplus* on non-lactating dairy cattle in Puerto Rico. *Parasites & Vectors* 12:185. DOI: 10.1186/s13071-019- 3443-6.
  40. **Wang, H.-H.**, A. Richardson\*, J.-D. Zhu, A. G. Birt, and W. E. Grant. 2019. Correction for “Interactive effects of prey and p, p’-DDE on burrowing owl population dynamics.” *Ecological Applications* 29:e01840. DOI: 10.1002/eap.1840.
  39. Smith, A. D., W. Godsoe, F. Rodríguez-Sánchez, **H.-H. Wang**, and D. Warren. 2019. Niche estimation above and below the species level. *Trends in Ecology and Evolution* 34:260-273. DOI: 10.1016/j.tree.2018.10.012. (F1000 Prime)
  38. **Wang, H.-H.**<sup>‡</sup>, C. L. Wonkka<sup>‡</sup>, W. E. Grant, and W. E. Rogers. 2019. Incorporating local-scale variables into distribution models enhances predictability for rare plant species with biological dependencies. *Biodiversity and Conservation* 28:171-182. DOI: 10.1007/s10531-018-1645-4.
  37. Kocmoud, A. R.<sup>†</sup>, **H.-H. Wang**, W. E. Grant, and B. J. Gallaway. 2019. Population

- dynamics of the endangered Kemp's ridley sea turtle following the 2010 oil spill in the Gulf of Mexico: Simulation of potential cause-effect relationships. *Ecological Modelling* 392:159-178. DOI: 10.1016/j.ecolmodel.2018.11.014.
36. Meierhofer, M. B.<sup>†</sup>, **H.-H. Wang**, W. E. Grant, J. H. Young, L. H. Johnston, L. K. Wolf, J. W. Evans, B. Pierce, J. M. Szewczak, and M. L. Morrison. 2018. Use of box beam bridges as day roosts by Mexican free-tailed bats (*Tadarida brasiliensis*) in Texas. *Southeast Naturalists* 17:605-615. DOI: 10.1656/058.017.0410.
  35. Culpepper, L. Z.\*<sup>‡</sup>, **H.-H. Wang**, T. E. Koralewski, W. E. Grant, and W. E. Rogers. 2018. Understory upheaval: Factors influencing Japanese stiltgrass invasion in forestlands of Tennessee, United States. *Botanical Studies* 59:20. DOI: 10.1186/s40529-018-0236-8.
  34. Kalinda, C., M. J. Chimbari, W. E. Grant, **H.-H. Wang**, J. N. Odhiambo, and S. Mukaratirwa. 2018. Simulation of population dynamics of *Bulinus globosus*: Effects of environmental temperature on production of *Schistosoma haematobium cercariae*. *PLoS Neglected Tropical Diseases* 12:e0006651. DOI: 10.1371/journal.pntd.0006651.
  33. **Wang, H.-H.**<sup>‡</sup>, M. S. Corson<sup>‡</sup>, W. E. Grant, and P. D. Teel. 2017. Quantitative models of *Rhipicephalus (Boophilus)* ticks: historical review and synthesis. *Ecosphere* 8:e01942. DOI: 10.1002/ecs2.1942.
  32. Villamizar-Gomez, A.<sup>†</sup>, M. R. J. Forstner, T. Suriyamongkol\*, K. N. Forks\*, W. E. Grant, **H.-H. Wang**, and Ivana Mali. 2016. Prevalence of *Batrachochytrium dendrobatidis* in two sympatric tree frog species, *Hyla cinerea* and *Hyla versicolor*. *Herpetological Review* 47:601-605.
  31. **Wang, H.-H.**, P. D. Teel, W. E. Grant, G. Schuster and A. A. Pérez de León. 2016. 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. *Ecological Modelling* 342:82-96. DOI: 10.1016/j.ecolmodel.2016.10.
  30. Suriyamongkol, T.\*<sup>‡</sup>, E. McGrew\*, L. Culpepper\*, K. Beck\*, **H.-H. Wang**, and W. E. Grant. 2016. Recent range expansions by the most prevalent invasive tree, Chinese tallow (*Triadica sebifera* (L.) Small), in the forestlands of eastern Texas. *Southeastern Naturalist* 15:68-75. DOI: 10.1656/058.015.sp909.
  29. Arevilca, A.\*<sup>‡</sup>, L. Elissetche\*, M. Scanlin\*, S. Stephens\*, **H.-H. Wang**, and W. E. Grant. 2016. Rapidly increasing of eastern Texas forestlands by the most prevalent invasive shrubs: Chinese and European privets. *Southeastern Naturalist* 15:61-67. DOI: 10.1656/058.015.sp908.
  28. Poche, D. M.<sup>†‡</sup>, W. E. Grant<sup>‡</sup>, and **H.-H. Wang**<sup>‡</sup>. 2016. Visceral leishmaniasis on the Indian subcontinent: Modelling the dynamic relationship between vector control schemes and vector life cycles. *PLoS Neglected Tropical Diseases* 10:e0004868. DOI: 10.1371/journal.pntd.0004.
  27. Fairs, A., **H.-H. Wang**, A. Tarone, and W. E. Grant. 2016. Forensic entomology: Evaluating uncertainty associated with postmortem interval (PMI) estimates with ecological models. *Journal of Medical Entomology* 53:1117-1130. DOI: 10.1093/jme/tjw070.
  26. 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.
25. **Wang, H.-H.**<sup>‡</sup>, C. L. Wonkka<sup>‡</sup>, 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.
  24. **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.
  23. 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* 18:381-394. DOI: 10.1007/s10530-015-1010-4.
  22. **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* 40:247-255. DOI: 10.1111/jvec.12161.
  21. **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.
  20. Mali, I.<sup>†</sup>, **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:e0139053. DOI: 10.1371/journal.pone.0139053.
  19. 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* 6:327-337. DOI: 10.3996/012015-JFWM-003.
  18. 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. DOI: 10.1016/j.foreco.2015.02.014.
  17. **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.
  16. 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. DOI: 10.1016/j.jenvman.2014.09.027
  15. **Wang, H.-H.** and W. E. Grant. 2014. Invasion of eastern Texas forestlands by Chinese privet: efficacy of alternative management strategies. *Diversity* 6:652-664. DOI: 10.3390/d6040652.
  14. **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* 112:346-353. DOI: 10.5849/jof.13-089.
  13. 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* 6:492-501. DOI:10.1614/IPSM-D-13-00010.1.



12. **Wang, H.-H.**, N. Y. Kung, W. E. Grant, J. C. Scanlan, and H. E. Field. 2013. Recrudescence infection supports Hendra virus persistence in Australian flying-fox populations. *PLoS ONE* 8:e80430. DOI: 10.1371/journal.pone.0080430.
11. 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. DOI: 10.1016/j.ecolmodel.2012.11.013
10. **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* 5:454-463. DOI:10.1614/IPSM-D-12-00038.1.
9. **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* 3:573-590. DOI: 10.3390/f3030573.
8. **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. DOI: 10.1016/j.ecolmodel.2012.06.007.
7. **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:e33877. DOI: 10.1371/journal.pone.0033877.
6. Gil-Weir, K. C., W. E. Grant, R. D. Slack, **H.-H. Wang**, and M. Fujiwara. 2012. Demography and population trends of Whooping Cranes. *Journal of Field Ornithology* 83:1-10. DOI: 10.1111/j.1557-9263.2011.00349.x.
5. **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. DOI: 10.1111/j.1472-4642.2011.00760.x.
4. 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. DOI: 10.1139/X09-058.
3. Chiou, C.-R., C. Lin, and **H.-H. Wang**. 2006. Investigation for fire use behavior of residences in Wu-Lin area (In Chinese with English abstract). *Quarterly Journal of Chinese Forestry* 39:29-41.
2. Chiou, C.-R., H. Lin, and **H.-H. Wang**. 2005. A study of visitors' satisfaction in Lin-Mei Stone Trail during summer vacation (In Chinese with English abstract). *Journal of the Experimental Forest of National Taiwan University* 19:281-291.
1. Chiou, C.-R. and **H.-H. Wang**. 2005. The application of knowledge management to forestry administration (In Chinese). *Taiwan Forestry Journal* 31:68-80.

#### **Publications Currently in Review**

1. Kiacz, S.<sup>†</sup>, **H.-H. Wang**, and D. J. Brightsmith. Dependence on urban landscapes of the endangered red-crowned parrot (*Amazona viridigenalis*).
2. **Wang, H.-H.**, G. V. Voorn, W. E. Grant, F. Zare, C. Giupponi, P. Steinmann, B. Müller, S. El Sawah, H. V. Delden, I. N. Athanasiadis, Z. Sun, W. Jager, J. C. Little, A. J. Jakeman. Scale decisions and good practices in socio-environmental systems modelling: guidance and documentation during problem scoping and model formulation.

3. Bishop, A.\*, **H.-H. Wang**, T. G. Donaldson, E. E. Brockinton, E. Kothapalli, S. Clark, T. Vishwanath, T. Canales, K. Sreekumar, W. E. Grant, and P. D. Teel. Tularemia cases increase in the United States from 2010 through 2018.
4. Kiser, A.†, C. Craig, T. Bonner, B. Littrell, C. Smith, C. Robertson, **H.-H. Wang**, W. E. Grant, M. Johnson, R. Lopez, C. Randklev. Creating a systematic prioritization of stream reaches for conservation of aquatic species.
5. Edgerton E.‡, **H.-H. Wang**, W. E. Grant, and M. Masser. Aquatic plant invasion and management in riverine reservoirs: Proactive management via a priori simulation of management alternatives.

### Tutorial

1. **Wang, H.-H.** 2021. Socio-environmental systems modeling series: Confronting issues of scale in socio-environmental systems modelling. The National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD.  
<https://www.youtube.com/watch?v=q5H7jdahJyc&t=45s>

### Editorial

1. **Wang, H.-H.**, M. Taffi, C. Chion, B. Rashleigh, T. Klanjšček, L. Harris, P. Goethals, and B. Fath. 2018. Special Issue: Ecological Modelling Global Conference 2016: 20th Biennial ISEM Conference, 8 - 12 May 2016, Towson, Maryland, USA. Ecological Modelling 383:1-2.

### Extension

1. French, J. T., **H.-H. Wang**, W. E. Grant, N. J. Silvy, J. M. Tomeček, and L. R. Schofield. 2020. Coyote conundrums: Shedding light on coyote behavior to inform more effective managements. East Foundation Management Bulletin 4:4.

## TEACHING

### Courses

- 2019–present ECCB 491 Research. Texas A&M University. Instructor.
- 2015–2019 WFSC 291 and WFSC 491 Research. Texas A&M University. Instructor.
- 2010–2020 WFSC 604 Ecological Modeling, Texas A&M University. Co-Instructor (not as official instructor of record).
- Spring 2016 RENR 205 Fundamentals of Ecology, Texas A&M University. Co-Instructor. Course evaluation: 4.72 / 5.00 from 199 students and 4.68 / 5.00 from 100 students.
- Spring 2015 RENR 205 Fundamentals of Ecology, Texas A&M University. Co-Instructor. Course evaluation: 4.73 / 5.00 from 193 students and 4.71 / 5.00 from 94 students.
- Fall 2014 RENR 205 Fundamentals of Ecology, Texas A&M University. Co-Instructor. Course evaluation: 4.57 / 5.00 from 223 students and 4.59 / 5.00 from 227 students.

### Guest Lectures

- Oct. 2022 ECCB 403 Population and Community Ecology, Texas A&M University. Topic: Predation.
- Jun. 2022 Ecology II, National Chiayi University, Chiayi, Taiwan. Topic: Ecosystem ecology (virtual guest lecture).
- Mar. 2016 WFSC403/613 Animal Ecology, Texas A&M University. Topic: Interspecific Competition.

- Feb. 2016 WFSC 405 Urban Wildlife and Fisheries. Texas A&M University. Topic: Vector-borne diseases in urban areas: Dynamic islands in space and time.
- Sep. 2014 WFSC403/613 Animal Ecology, Texas A&M University. Topic: Population growth.
- Aug. 2012 WFSC403/613 Animal Ecology, Texas A&M University. Topic: Systems approach in ecology.

### **Labs**

- Spring 2008 RLEM 301 Range and Forest Watershed Management Lab, Texas A&M University. Course evaluation: 4.33 / 5.00 and 4.54 / 5.00.
- 2003–2004 Plant Taxonomy Lab, School of Forestry and Resource Conservation, National Taiwan University.
- 2002–2003 Dendrology Lab, School of Forestry and Resource Conservation, National Taiwan University.

## **MENTORING**

### **Co-Chair**

2. Miranda Peterson, Department of Ecology and Conservation Biology, Texas A&M University. Ph.D. student, in progress.
1. Amanda Kocmoud, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Kemp's ridley sea turtle population dynamics in the Gulf of Mexico: Evaluation of post-2010 trends and hypotheses using an age-structured simulation model. M.S. Aug. 2018.

### **Committee Member**

13. Alexander Kiser, Department of Rangeland, Wildlife and Fisheries Management, Texas A&M University. Ph.D. student, in progress.
12. Kelley Sampeck, Department. of Veterinary Pathobiology, Texas A&M University. Ph.D. student, in progress.
11. Cayley Elsik, Department of Rangeland, Wildlife and Fisheries Management, Texas A&M University. M.S. student, in progress.
10. Simon Kiacz, Department. of Veterinary Pathobiology, Texas A&M University. Ph.D. candidate, in progress.
9. Blake Elkins, Department of Entomology, Texas A&M University. Thesis: An invasive aphid pest of sorghum (*Melanaphis sorghi*) and its natural enemies across landscapes, patches, and host plants. Ph.D. May 2022.
8. Melissa Meierhofer, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Baseline data on overwintering bats and roosts in Texas. Ph.D. Aug. 2020.
7. Andrea Villamizar Gomez, Department of Biology, Texas State University. Thesis: Prevalence and geographic patterns of *Batrachochytrium dendrobatidis* in Texas. Ph.D. Dec. 2019.
6. Lauren Beebe, Department of Entomology, Texas A&M University. Thesis: Thermal tolerance of the larvae of two forensically important blow fly species, *Chrysomya rufifacies* (Macquart) and *Cochliomyia macellaria* (Fabricius) (Diptera: Calliphoridae). M.S. Dec. 2019.
5. Rachel Fern, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Improving avian species distribution models by incorporating biotic

interactions. Ph.D. Dec. 2018.

4. Megna Murali, Department of Ecosystem Science and Management, Texas A&M University. Thesis: A spatial analysis of the historic progression of the Memorial Park in Houston, Texas. M.S. May 2018.
3. Thomas Huff, Department of Ecosystem Science and Management, Texas A&M University. Thesis: Salt marsh hydrology and restoration. Ph.D. Aug. 2017.
2. David Poche, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: 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. Dec. 2015.
1. Ivana Mali, Department of Biology, Texas State University. Thesis: Freshwater turtles as a renewable resource: Using the red-eared slider (*Trachemys scripta elegans*) as a model species. Ph.D. Dec. 2014.

#### **Undergraduate Research Scholars (Honor Theses) Advisor**

19. Esha Kothapalli, School of Public Health, Texas A&M University. Thesis: Effect of climate and land use on the spatial distribution of *Ehrlichia chaffeensis* infections. May 2022.
18. Scott Clark, Department of Biology, Texas A&M University. Thesis: Impact of climate and land use on the spatial distribution of *rickettsiosis* incidence in the United States. May 2022.
17. Tatyana Canales Department of Rangeland, Wildlife and Fisheries Management, Texas A&M University. Thesis: Spatio-temporal patterns and influencing factors of Florida panther roadkills. May 2022.
16. Alexandra Bishop, Department of Biology, Texas A&M University. Thesis: In search of the proximate factors triggering anthrax epidemics: Simulation of plasmid transfer and persistence in *Bacillus* communities outside of the host. May 2020.
15. Adam Baker. College of Veterinary Medicine and Biomedical Sciences, Texas A&M University. Thesis: Using climate factors to explain the increasing incidence of *Anaplasma phagocytophilum* in Minnesota and Wisconsin from 2000 to 2016. May 2019.
14. Zakary Derouen and Miranda Peterson. Department of Ecosystem Science and Management and Department of Geography, Texas A&M University. Thesis: The recent expansion of invasive *Tubastraea coccinea* throughout the Gulf of Mexico and its relation to oil and gas platforms. May 2019.
13. Katherine Carbajal, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Estimation of anthropogenic and catastrophic effects of Florida manatee (*Trichechus manatus latirostris*). May 2018.
12. Madeline Jones, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Estimation of Deepwater Horizon oil spill effects on population dynamics of the loggerhead sea turtle (*Caretta caretta*). May 2018.
11. Annie Montgomery, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Evaluation of morbillivirus exposure to bottlenose dolphins (*Tursiops truncatus*) following the Deepwater Horizon oil spill. May 2018.
10. Jennifer Borski, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Evaluating potential effects of Antarctic ice-shelf retreat on blue whale (*Balaenoptera musculus*) populations: A simulation model of interactions

- among sea ice, Antarctic krill (*Euphausia superba*), and blue whales. May 2017.
9. Paola Camposeco, Jasmin Diaz, and Marissa Ortega, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Simulated effects of Indo-Pacific lionfish (*Pterois volitans* and *P. miles*) invasions on parrotfish (Scaridae family) populations on coral reefs in the Caribbean. May 2017.
  8. Lela Culpepper, Department of Ecosystem Science and Management, Texas A&M University. Thesis: Recent range expansions by Nepalese browntop (*Microstegium vimineum* (Trin.) A. Camus) in the forestlands of Tennessee. May 2017.
  7. Hannah Gerke, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: A top predator returns: Effects of the eastern Indigo snake (*Drymarchon Couperi*) on herpetological communities in southern Alabama. May 2017.
  6. Andrew Richardson, Zachry Department of Civil Engineering, Texas A&M University. Thesis: Evaluating the effect of copper containments upon fountain darter (*Etheostoma fonticola*) population. May 2017.
  5. Rebecca Aden, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Simulated effects of sex-ratio disparity on population dynamics of the endangered Houston toad (*Bufo houstonensis*). May 2016.
  4. Aminta Arevilca, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Effects of gillnet entanglement on mortality of dusky dolphins (*Lagenorhynchus obscurus*). May 2016.
  3. Anna Cole, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Effects of genetic depletion on estimating risk of extinction of the endangered Florida panther (*Puma concolor coryi*). May 2016.
  2. Kaitlyn Forks, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Use of PVC pipes of different diameters as artificial refuges by green tree frogs (*Hyla cinerea*) in Texas. May 2016.
  1. Thanchira Suriyamongkol, Department of Wildlife and Fisheries Sciences, Texas A&M University. Thesis: Effects of burning on relative abundances and morphological characteristics of green tree frog (*Hyla cinerea*) in Texas. May 2016.

#### **Undergraduate Research Advisor**

- Fall 2022 Two undergraduate students: Scott Clark (BIOL) and Javier Saldana (RWF).
- Summer 2022 One undergraduate student: Scott Clark (BIOL).
- Spring 2022 Four undergraduate students: Tatyana Canales (WFSC), Scott Clark (BIOL), Esha Kothapalli (BSPH), and Tanvi Vishwanath (APMS).
- Fall 2021 Five undergraduate students: Emily Brockinton (CESS, TAMU at Galveston), Tatyana Canales (WFSC), Scott Clark (BIOL), Esha Kothapalli (BSPH), and Tanvi Vishwanath (APMS).
- Summer 2021 Five undergraduate students: Emily Brockinton (CESS, TAMU at Galveston), Tatyana Canales (WFSC), Scott Clark (BIOL), Esha Kothapalli (BSPH), and Tanvi Vishwanath (APMS).
- Spring 2021. Seven undergraduate students: Alexandra Bishop (BIOL), Emily Brockinton (CESS, TAMU at Galveston), Tatyana Canales (WFSC), Scott Clark (BIOL), Esha Kothapalli (BSPH), Krishnendu Sreekumar (BIMS), and Tanvi Vishwanath (APMS).
- Fall 2020 Seven undergraduate students: Alexandra Bishop (BIOL), Emily

- Brockinton (CESS, TAMU at Galveston), Tatyana Canales (WFSC), Scott Clark (BIOL), Esha Kothapalli (BSPH), Krishnendu Sreekumar (BIMS), and Tanvi Vishwanath (APMS).
- Summer 2020 Two undergraduate students: Alexandra Bishop (BIOL) and Zakary Derouen (ESSM).
- Spring 2020 Two undergraduate students: Alexandra Bishop (BIOL) and Zakary Derouen (ESSM).
- Fall 2019 Three undergraduate students: Alexandra Bishop (BIOL), Zakary Derouen (ESSM), and Miranda Peterson (ENST).
- Summer 2019 Two undergraduate students: Zakary Derouen (ESSM) and Miranda Peterson (ENST).
- Spring 2019 Five undergraduate students: Adam Baker (BIMS), Alexandra Bishop (BIOL), Zakary Derouen (ESSM), Avery Michalk (BIMS), and Miranda Peterson (ENST).
- Fall 2018 Nine undergraduate students: Adam Baker (BIMS), Alexandra Bishop (BIOL), Jennifer Borski (WFSC), Zakary Derouen (ESSM), Samantha Heldman (BIOL), Avery Michalk (BIMS), Michael Mogg (BUAD), Annie Montgomery (WFSC), and Miranda Peterson (ENST).
- Summer 2018 Eight undergraduate students: Adam Baker (BIMS), Jennifer Borski (WFSC), Audrey Carlos (WFSC), Zakary Derouen (ESSM), Shelby Lukose (BIMS), Avery Michalk (BIMS), Michael Mogg (BUAD), and Christopher Vazquez (ZOOL).
- Spring 2018 Ten undergraduate students: Alexandra Bishop (BIOL), Jennifer Borski (WFSC), Katherine Carbajal (WFSC), Leonila Chilongo (GIST), Zakary Derouen (ECOR), Samantha Heldman (BIOL), Madeline Jones (WFSC), Annie Montgomery (WFSC), Miranda Peterson (ENST), and Christopher Vazquez (ZOOL).
- Fall 2017 Ten undergraduate students: Alexandra Bishop (BIOL), Jennifer Borski (WFSC), Katherine Carbajal (WFSC), Lela Culpepper (ECOR/FORS), Zakary Derouen (ECOR), Samantha Heldman (BIOL), Madeline Jones (WFSC), Annie Montgomery (WFSC), Miranda Peterson (ENST), and Christopher Vazquez (ZOOL).
- Summer 2017 Three undergraduate students: Katherine Carbajal, Madeline Jones, Annie Montgomery (WFSC).
- Spring 2017 Eleven undergraduate students: Jennifer Borski (WFSC), Maria Camposeco (WFSC), Katherine Carbajal (WFSC), Lela Culpepper (ECOR/FORS), Jasmin Diaz-Lopez (WFSC), Kaitlyn Forks (WFSC), Hannah Gerke (WFSC), Cinnamon Laxton (BESC), Yovana Marinkovic (INTS), Marissa Ortega (WFSC), and Andrew Richardson (CVEN).
- Fall 2016 Fifteen undergraduate students: Rebecca Aden (WFSC), Aminta Arevilca (WFSC), Jennifer Borski (WFSC), Maria Camposeco (WFSC), Katherine Carbajal (WFSC), Anna Cole (WFSC), Lela Culpepper (ECOR/FORS), Jasmin Diaz-Lopez (WFSC), Kaitlyn Forks (WFSC), Hannah Gerke (WFSC), Cinnamon Laxton (BESC), Yovana Marinkovic (INTS), Marissa Ortega (WFSC), Andrew Richardson (CVEN), and Thanchira Suriyamongkol (WFSC).

- Summer 2016 Two undergraduate students: Maria Camposeco (WFSC), Andrew Richardson (CVEN).
- 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).
- 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).
- Summer 2015 Five undergraduate students: Aminta Arevilca (WFSC), Kaitlyn Forks (WFSC), Erin McGrew (WFSC), Sara Stephens (WFSC), and Thanchira Suriyamongkol (WFSC).
- 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).
- 2013 One undergraduate student: Jesseca Buchhorn (WFSC).
- 2010–2011 One undergraduate student: Adam Kley, Department of Mathematics, Texas A&M University. NSF UBM (Undergraduate of Biology and Mathematics, National Science Foundation) program.

### HONORS AND AWARDS

- Apr. 2017 Outstanding Undergraduate Teacher Award for the academic year 2016–2017. Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX.
- Feb. 2014 Elsevier Reviewer Recognition. *Forest Ecology and Management*. Elsevier, Amsterdam, The Netherlands.
- Dec. 2013 Certificate of Excellence in Reviewing of *Ecological Modelling*. Elsevier, Amsterdam, The Netherlands.
- Oct. 2013 1<sup>st</sup> Biennial Outstanding Reviewer Award from the International Society for Ecological Modelling, Toulouse, France.
- Mar. 2009 2<sup>nd</sup> Place, Poster Competition in Ecology and Conservation, Texas A&M Student Research Week, College Station, TX.
- Mar. 2008 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.
- Nov. 2007 Honorable Mention, 2007 North America Taiwanese Engineers' Association (NATEA) Scholarship Program, Dallas Chapter.
- Apr. 2007 3<sup>rd</sup> Place, Poster Competition in Ecology and Conservation, Texas A&M Student Research Week, College Station, TX.
- Mar. 2007 1<sup>st</sup> Place, Poster Competition, Southern Forest Economics Workshop, San

- Antonio, TX.
- Aug. 2006 Competitive fellowship (\$1000), Department of Ecosystem Science and Management, Texas A&M University. College Station, TX.
- Nov. 2004 3<sup>rd</sup> Place, Thesis Competition, Chinese Forestry Association Annual Academic Thesis Competition. Ilan, Taiwan.
- Jan. 2000 Presidential Awards, National Taiwan University, Taipei, Taiwan.

## **PROFESSIONAL ORGANIZATIONS AND ACTIVITIES**

- 2021–Present Committee member, Aggie Pregnant and Parenting Student Organization, Texas A&M University.
- 2021–Present Mentor, Student Mentoring and Guidance Program, Department of Ecology and Conservation Biology, Texas A&M University.
- 2021–Present Mentor, Climate, Diversity, Equity, and Inclusion Committee, Department of Ecology and Conservation Biology, Texas A&M University.
- 2021 Judge, Marine Academy of Technology and Environmental Science (NATES) Research Expo, Manahawkin, NJ (Online).
- 2018–Present Member, International Society of Environmental Modeling and Software.
- 2018–Present Member, Entomology Society of America.
- 2016–Present Member, International Biogeography Society.
- 2016–Present Member, Invasion Ecology Section, Ecological Society of America.
- 2016–Present Member, International Society for Ecological Modelling.
- 2011–Present Member, Ecological Society of America.
- 2020–Present Invited Participant, Lorentz Workshop: Modelling social-ecological systems across scales, and with participatory methods. Lorentz Center (Lorentz@Snellius), Leiden, the Netherlands.
- 2017–2019 Invited Participant, NIMBioS Investigative Workshop: Species' range shifts in a warming world. University of Tennessee, Knoxville.
- 2015–2019 Judge, Student Research Week, Texas A&M University.
- 2015–2019 Judge, Ecological Integration Symposium, Texas A&M University.
- 2017–2018 Judge, Texas Junior Academy of Science, College Station, TX.
- 2014 Completed online course “Introduction to Complexity” with certificate offered by Santa Fe Institute, Santa Fe, NM.
- 2009 Event Coordinator, Graduate Student Organization, Department of Ecosystem Science and Management, Texas A&M University.
- 2008–2009 Group Leader, Graduate Teaching Academy Steering Committee (GTASC), Texas A&M University.
- 2008–2009 Officer, Taiwanese Student Organization, Texas A&M University.
- 2008–2009 Fellow, Wakonse South (College Teaching Association).
- 2008 Judge, 2nd Annual Science Fair at Harmony Science Academy, Bryan/College Station, TX.
- 2007–2008 Fellow, Graduate Teaching Academy (GTA), Texas A&M University.
- 2006–2009 Member, Taiwanese Student Organization, Texas A&M University.

## **PRESENTATIONS**

### **Keynote Speech**

3. **Wang, H.-H.** Sep. 2022. Exploring the Role of Scale in Socio-Environmental Systems



Modeling. AGU Chapman Conference: Solving Water Availability Challenges through an Interdisciplinary Framework, Golden, Colorado.

2. **Wang, H.-H.** Jun. 2021. Confronting issues of scale in socio-environmental systems modeling. The National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD (Live webcast: <https://www.youtube.com/watch?v=LD6AwSyrL8>).
1. **Wang, H.-H.** Nov. 2018. Modeling regional migration and local colonization by airborne insects: Forecasting sugarcane aphid infestation of grain sorghum in the Great Plains. ESA, ESC, and ESBC Joint Annual Meeting (Entomology 2018), Vancouver, British Columbia, Canada.

#### **Invited Panel**

3. **Wang, H.-H.** Oct. 2018. Research Networking Panel. Undergraduate Research Expo, Texas A&M University, College Station, TX.
2. **Wang, H.-H.** Oct. 2017. Research Cultures and Mentoring Models Panel. Undergraduate Research Expo, Texas A&M University, College Station, TX.
1. **Wang, H.-H.** Oct. 2017. Research Networking Panel. Undergraduate Research Expo, Texas A&M University, College Station, TX.

#### **Invited Presentation**

9. **Wang, H.-H.** Dec. 2020. Toward near-real-time forecasts of airborne crop pests as a component of sustainable areawide integrated pest management. The IPM Hour - Southern Edition (virtual presentation).
8. **Wang, H.-H.** Feb. 2020. Death (*Cochliomyia macellaria*), disease (*Phlebotomus argentipes*), quarantine (*Rhipicephalus (Boophilus) microplus*), and bankruptcy (*Melanaphis sacchari*): A systems ecologist's perspective on complex socio-environmental problems involving spineless creatures. Department of Entomology Seminar Series, Texas A&M University, College Station, TX.
7. Wonkka, C. L., D. Twidwell, **H.-H. Wang**, and W. E. Grant. Aug. 2018. Operationalizing resilience in law to manage social-ecological feedbacks in rangelands. Ecological Society of America Annual Meeting, New Orleans, LA.
6. **Wang, H.-H.** Mar. 2018. Complexity of ecological resilience: Quantitative challenges. Department of Ecosystem Science and Management, Texas A&M University, College Station, TX.
5. Grant, W. E. and **H.-H. Wang**. Jan. 2018. Sugarcane Aphid Synoptic Modeling. 2018 Sugarcane Aphid Workshop, St. Louis, MO.
4. **Wang, H.-H.** Feb. 2017. Modeling ecological dynamics in temporally variable, spatially heterogeneous environments: Spatial ecology of invasive plants, native wildlife, and tick-borne disease risk. Department of Entomology Seminar Series, Texas A&M University, College Station, TX.
3. **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.
2. **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.
1. **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)

215. Peterson, M. R.<sup>†</sup>, Z. Derouen\*, T. E. Koralewski, **H.-H. Wang**, S. M. Heldman\*, A. E. Bishop\*, and W. E. Grant. Jan. 2023. Dynamic biogeography: Climate change puts invasive Japanese honeysuckle (*Lonicera japonica*) on the move in forestlands of the southern United States (oral presentation). 9th Annual Texas Conservation Symposium. Georgetown, TX.
214. Brockinton, E.\* , M. Peterson, **H.-H. Wang**, and W. E. Grant. Apr. 2022. Importance of anthropogenic determinants of *Tubastraea coccinea* invasion in the northern Gulf of Mexico (oral presentation). 22nd Annual Texas A&M University Ecological Integration Symposium. College Station, TX.
213. Clark, S.\* , **H.-H. Wang**, and W. E. Grant. Apr. 2022. Impact of climate and land use on the spatial distribution of *Rickettsiosis* incidence in the United States (oral presentation). 22nd Annual Texas A&M University Ecological Integration Symposium. College Station, TX.
212. Canales, T.\* , **H.-H. Wang**, and W. E. Grant. Apr. 2022. Spatial distribution of road-kills and factors influencing road mortality for Florida panther (oral presentation). 22nd Annual Texas A&M University Ecological Integration Symposium. College Station, TX.
211. Kothapalli, E.\* , **H.-H. Wang**, and W. E. Grant. Apr. 2022. Spatial heterogeneity of climate and land use impacts on distributions of *Ehrlichia chaffeensis* infections in the United States (oral presentation). 22nd Annual Texas A&M University Ecological Integration Symposium. College Station, TX.
210. Peterson, M., Z. C. Derouen\*, S. M. Heldman\*, A. E. Bishop\*, T. E. Koralewski, H.-H. Wang and W. E. Grant. Apr. 2022. Plants on the move: The current trend and future risk of Japanese honeysuckle invasion in southern United States (oral presentation). 22nd Annual Texas A&M University Ecological Integration Symposium. College Station, TX.
209. Peterson, M., E. Brockinton\*, H.-H. Wang, and W. E. Grant. Mar. 2022. Anthropogenic determinants of an invasive coral in the northern Gulf of Mexico (oral presentation). Student Research Week. College Station, TX.
208. Kothapalli, E., **H.-H. Wang**, and W. E. Grant. Mar. 2022. Effect of climate and land use on the spatial distribution of *Ehrlichia chaffeensis* infections in the United States (oral presentation). Student Research Week. College Station, TX. Third place for undergraduate oral presentation in the category of Public Health and Impact of COVID-19.
207. Clark, S. **H.-H. Wang**, and W. E. Grant. Mar. 2022. Spatially heterogeneous land use and climatic risk factors of *Rickettsiosis* incidence in the United States (oral presentation). Student Research Week. College Station, TX.
206. Canales, T., **H.-H. Wang**, and W. E. Grant. Mar. 2022. Spatio-temporal patterns and influencing factors of Florida panther roadkills (oral presentation). Student Research Week. College Station, TX.
205. Guillaume, J. H. A., J. Applegate, B. Croke, P. Glynn, W. E. Grant, V. Grimm, S. Hamilton, T. Iwanaga, A. Jakeman, T. E. Koralewski, T. Lim, J. Little, S. Razavi, G. Shank, and **H.-H. Wang**. Dec. 2021. Reasoning about model complexity with a multi-scale approach (virtual oral presentation). AGU21 Fall Meeting. New Orleans,

- LA.
204. Peterson, M. R. †, **H.-H. Wang**, and W. E. Grant. Oct. 2021. Modeling adaptive rangeland management under increased climatic variability (oral presentation). Welder Wildlife Foundation Symposium. Sinton, TX.
  203. Clark, S.\*, E. Kothapalli\*, A. Bishop\*, E. Brockinton\*, T. Vishwanath\*, T. Canales\*, K. Sreekumar\*, **H.-H. Wang**, and W. E. Grant. Oct. 2021. Analyzing the increasing incidence of Tularemia infections in the United States, 2010-2018 (poster presentation). 2021 LAUNCH Undergraduate Research Expo. College Station, TX.
  202. Clark, S.\*, A. Bishop\*, E. Brockinton\*, E. Kothapalli\*, K. Sreekumar\*, T. Vishwanath\*, T. Canales\*, **H.-H. Wang**, and W. E. Grant. May 2021. Summarizing the escalation of tularemia occurrence in the United States from 2010 to 2018 (virtual oral presentation). Aggie Research Program Virtual Conference. College Station, TX.
  201. Peterson, M. R. †, **H.-H. Wang**, and W. E. Grant. Mar. 2021. Brush dynamics in south Texas rangelands under four climate scenarios (virtual poster presentation). Student Research Week. College Station, TX.
  200. Bishop, A.\*, E. Brockinton\*, E. Kothapalli\*, K. Sreekumar\*, S. Clark\*, T. Vishwanath\*, T. Canales\*, **H.-H. Wang**, and W. E. Grant. Mar. 2021. Using data surveillance to understand the rising incidence of tularemia cases in the United States, 2010-2018 (virtual oral presentation). Student Research Week. College Station, TX. First place for undergraduate oral presentation in Health Sciences Category.
  199. **Wang, H.-H.** Mar. Oct. 2020. Ecological Systems Lab: Interdisciplinary modeling of ecological (physical-ecological-social) systems (virtual oral presentation). Department of Ecology and Conservation Biology Seminar Series, Texas A&M University, College Station, TX.
  198. **Wang, H.-H.**, Wonkka, C. L., Mestre, F., Alagador, D., Koralewski, T. E., Treglia, M. L., Pękaliski, A., Grant, W. E., Smeins, F., and Rogers, W. E. Aug. 2020. Plant conservation in temporally variable, spatially heterogeneous environments (virtual oral presentation). Texas Plant Conservation Conference.
  197. Peterson, M.\*, Derouen, Z.\*, S. Heldman\*, A. Bishop\*, Y. Marinkovic\*, C. Vazquez\*, L. Chilongo\*, T. E. Koralewski, **H.-H. Wang**, and W. E. Grant. Apr. 2020. Spatial Ecology of the Invasive Japanese Honeysuckle (poster). 21st Ecological Integration Symposium (virtual conference).
  196. Bishop, A.\*, **H.-H. Wang**, and W. E. Grant. Feb. 2020. In searching of the proximate factors triggering Anthrax epidemics: Simulation of plasmid transfer and persistence in Bacillus communities outside of the host (oral presentation). Undergraduate Research Scholars Symposium. College Station, TX.
  195. Derouen, Z.\*, M. Peterson\*, **H.-H. Wang**, and W. E. Grant. Nov. 2019. Determinants of *Tubastraea coccinea* invasion and likelihood for further invasion in the northern Gulf of Mexico (poster). The 11th Annual Undergraduate Research Conference at the Interface of Biology and Mathematics. NIMBioS (National Institute for Mathematical and Biological Synthesis), Knoxville, TN.
  194. Peterson, M.\*, Derouen, Z.\*, A. Bishop\*, S. Heldman\*, Y. Marinkovic\*, C. Vazquez\*, L. Chilongo\*, **H.-H. Wang**, T. E. Koralewski, and W. E. Grant. Nov. 2019. Plants on the move: The trend of Japanese honeysuckle invasion in southeast United States (poster). The 11th Annual Undergraduate Research Conference at the Interface of Biology and Mathematics. NIMBioS (National Institute for Mathematical and

- Biological Synthesis), Knoxville, TN.
193. Grant, W. E. and **H.-H. Wang**. Oct. 2019. Some reflections on integrated (physical-ecological-social) modelling from the perspective of a (pair of) systems ecologist(s) (oral presentation). The International Society for Ecological Modelling Global Conference 2019. Salzburg, Austria.
  192. **Wang, H.-H.** and W. E. Grant. Oct. 2019. Integrating physical, ecological, and social system components in a model representing impacts of wind-borne pests on producers of cereal grain crops in the Great Plains of the USA (oral presentation). The International Society for Ecological Modelling Global Conference 2019. Salzburg, Austria.
  191. Bishop, A. \*, A. Michalk\*, J. Borski\*, A. Montgomery\*, **H.-H. Wang**, W. E. Grant, S. Heldman\*, M. Mogg\*, Z. Derouen\*, P. D. Teel, J. E. Lopez. Oct. 2019. Summarizing the escalation of spotted fever group rickettsioses occurrence in the United States from 2012 to 2016 (poster). 2019 LAUNCH Undergraduate Research Expo. College Station, TX.
  190. Derouen, Z.\* , M. Peterson\*, H.-H. Wang, and W. E. Grant. Oct. 2019. The recent expansion of the invasive orange cup coral throughout the northern Gulf of Mexico (poster). 2019 LAUNCH Undergraduate Research Expo. College Station, TX.
  189. French, J. T., **H.-H. Wang**, W. E. Grant, J. M. Tomeček, and T. Campbell. Sep. 2019. A novel approach to the analysis of dynamic animal space use interactions with telemetry data (oral presentation). American Fisheries Society & The Wildlife Society 2019 Joint Annual Conference. Reno, NV.
  188. Donaldson, T., **H.-H. Wang**, W. E. Grant, and P. D. Teel. Jul. 2019. Simulation Model of Host-Transferring Adult Males Ticks (*Dermacentor Variabilis*) (Acari: Ixodidae) in the Transmission of Equine Piroplasmiasis (*Theileria Equi*) (poster). 27th Conference of the World Association for the Advancement of Veterinary Parasitology. Madison, WI.
  187. Lohmeyer, K. H., **H.-H. Wang**, P. D. Teel, W. E. Grant, and A. A. Pérez de León. Jul. 2019. Modeling cattle-nilgai-deer interactions to assess impact of nilgai on cattle fever tick eradication efforts in the USA (oral presentation). 27th Conference of the World Association for the Advancement of Veterinary Parasitology. Madison, WI.
  186. **Wang, H.-H.**, T. E. Koralewski, W. E. Grant, J. K. Westbrook, M. J. Brewer, and N. C. Elliott. May 2019. Modeling regional migration and local colonization by airborne insects: Challenges in scaling (virtual presentation). 1st Regional Conference on Environmental Modeling and Software. Nanjing, China.
  185. Baker, A. \*, **H.-H. Wang**, W. E. Grant, P. D. Teel, and J. E. Lopez. Apr. 2019. The relationship between climate and the increasing incidence of *Anaplasma Phagocytophilum* in Minnesota and Wisconsin from 2005 to 2015 (poster). 20th Annual Texas A&M University Ecological Integration Symposium. College Station, TX.
  184. Bishop, A., A. Michalk, J. Borski, A. Montgomery, **H.-H. Wang**, W. E. Grant, S. Heldman, M. Mogg, Z. Derouen, P. D. Teel, J. E. Lopez. April 2019. Using Data Surveillance to Understand the Rising Prevalence of Tick-borne infections (genus Rickettsia) in the United States, 2010 - 2016 (oral presentation). 20th Annual Texas A&M University Ecological Integration Symposium. College Station, TX.
  183. Derouen, Z.\* , M. Peterson\*, **H.-H. Wang**, and W. E. Grant. Apr. 2019. Determinants

- of *Tubastraea coccinea* invasion and likelihood of further invasion in the northern Gulf of Mexico (poster). 20th Annual Texas A&M University Ecological Integration Symposium. College Station, TX.
182. Baker, A.\*, **H.-H. Wang**, W. E. Grant, P. D. Teel, and J. E. Lopez. Mar. 2019. Effects of climate change on *Anaplasma phagocytophilum* risk in Minnesota and Wisconsin from 2005 to 2015 (oral presentation). Student Research Week. College Station, TX. Second place for undergraduate oral presentation in Health Sciences Category
181. Bishop, A.\*, A. Michalk\*, J. Borski\*, A. Montgomery\*, **H.-H. Wang**, W. E. Grant, S. Heldman\*, M. Mogg\*, Z. Derouen\*, P. D. Teel, J. E. Lopez. Mar. 2019. Summarizing the escalation of spotted fever group Rickettsioses occurrence in the United States from 2012 to 2016 (poster). Student Research Week. College Station, TX.
180. Derouen, Z.\*, M. Peterson\*, **H.-H. Wang**, and W. E. Grant. Mar. 2019. *Tubastraea coccinea* and the vectors of invasion in the northern Gulf of Mexico (poster). Student Research Week. College Station, TX.
179. Baker, A.\*, **H.-H. Wang**, W. E. Grant, P. D. Teel, and J. E. Lopez. Feb. 2019. Using climate factors to explain the increasing incidence of *Anaplasma phagocytophilum* in Minnesota and Wisconsin from 2005 to 2015 (oral presentation). Undergraduate Research Scholars Symposium. College Station, TX.
178. Derouen, Z. C., M. R. Peterson, **H.-H. Wang**, and W. E. Grant. Feb. 2019. The recent expansion of invasive *Tubastraea coccinea* throughout the Gulf of Mexico and its relation to oil and gas platforms (oral presentation). Undergraduate Research Scholars Symposium. College Station, TX.
177. French, J. T., **H.-H. Wang**, W. E. Grant, J. M. Tomeček, and T. Campbell. Feb. 2019. A novel approach to the analysis of dynamic animal space use interactions with telemetry data (oral presentation). 55th Annual Meeting of the Texas Chapter of the Wildlife Society. Montgomery, TX.
176. Peterson, M.\*, Z. Derouen\*, **H.-H. Wang**, and W. E. Grant. Jan. 2019. The recent expansion of the invasive orange cup coral throughout the northern Gulf of Mexico (poster). 9th Annual Graduate Program in Marine Biology Science Symposium. Corpus Christi, TX.
175. Baker, A.\*, M. Mogg\*, Z. Derouen\*, **H.-H. Wang**, and W. E. Grant. Oct. 2018. Increasing incidence of Anaplasmosis and Ehrlichiosis in the United States, 2012-2016 (poster). 2018 LAUNCH Undergraduate Research Expo. College Station, TX
174. Michalk, A.\*, J. Borski\*, S. Lukose\*, A. Carlos\*, Z. Derouen\*, **H.-H. Wang**, and W. E. Grant. Oct. 2018. Increasing incidence of spotted fever group Rickettsioses in the United States, 2012-2016 (poster). 2018 LAUNCH Undergraduate Research Expo. College Station, TX
173. **Wang, H.-H.**, F. Mestre, C. L. Wonkka, M. L. Treglia, W. E. Grant, F. E. Smeins, and W. E. Rogers. Sep. 2018. Synergistic effects of habitat fragmentation and climate change on conservation of an endangered orchid (oral presentation). Texas Plant Conservation Conference. Fort Worth, TX.
172. Carbajal, K.\*, P. Camposeco\*, J. Diaz-Lopez\*, **H.-H. Wang**, and W. E. Grant. Aug. 2018. Simulated population trends of Florida manatee under anthropogenic and catastrophic events (poster). National Conference on Ecosystem Restoration. New Orleans, LA

171. Derouen, Z.\*, A. Bishop\*, M. Peterson\*, S. Heldman\*, Y. Marinkovic\*, C. Vazquez\*, L. Chilongo\*, **H.-H. Wang**, T. E. Koralewski, and W. E. Grant. Aug. 2018. Plants on the move: The trend of Japanese Honeysuckle invasion in southeast United States (poster). National Conference on Ecosystem Restoration. New Orleans, LA
170. Jones, M.\*, Gerke, H. C.\*, **H.-H. Wang**, and W. E. Grant. Aug. 2018. A stage-structured population model for Deepwater Horizon oil spill: Potential impacts of Deepwater Horizon oil spill event (poster). National Conference on Ecosystem Restoration. New Orleans, LA
169. Montgomery, A. M.\*, **H.-H. Wang**, and W. E. Grant. Aug. 2018. Potential effect of morbillivirus exposure following the Deepwater Horizon oil spill on bottlenose dolphin population (poster). National Conference on Ecosystem Restoration. New Orleans, LA
168. Peterson, M.\*, S. Heldman\*, C. Vazquez\*, Z. Derouen\*, Y. Marinkovic\*, A. Bishop\*, L. Chilongo\*, **H.-H. Wang**, T. E. Koralewski, W. E. Grant, and W. E. Rogers. Aug. 2018. Plant invasion across space and time: Chinese tallow range expansion in southeast United States (poster). National Conference on Ecosystem Restoration. New Orleans, LA
167. Bishop, Alexandra E.\*, Z. Derouen\*, M. Peterson\*, S. M. Heldman\*, Y. Marinkovic\*, C. Vazquez\*, L. Chilongo\*, T. E. Koralewski, **H.-H. Wang**, and W. E. Grant. Aug. 2018. Determinants of Japanese honeysuckle, *Lonicera japonica*, invasion in southeast United States forestlands (poster). Ecological Society of America Annual Meeting. New Orleans, LA.
166. Borski, J. M.\*, A. W. Richardson\*, **H.-H. Wang**, and W. E. Grant. Aug. 2018. Potential effect of pharmaceutical contamination on fountain darter population dynamics (poster). Ecological Society of America Annual Meeting. New Orleans, LA.
165. Carbajal, K.\*, P. Camposeco\*, J. Diaz-Lopez\*, **H.-H. Wang**, and W. E. Grant. Aug. 2018. Modeling the effects of anthropogenic and catastrophic events on Florida manatee population (poster). Ecological Society of America Annual Meeting. New Orleans, LA.
164. Koralewski, T. E., J. K. Westbrook, W. E. Grant, and **H.-H. Wang**. Aug. 2018. A platform for linking physical and ecological simulation models: The aeroecology of aphids (poster). Ecological Society of America Annual Meeting. New Orleans, LA.
163. Marinkovic, Y.\*, C. Vazquez\*, S. M. Heldman\*, A. E. Bishop\*, L. Chilongo\*, M. R. Peterson\*, Z. Derouen\*, **H.-H. Wang**, T. E. Koralewski, W. E. Grant, and W. E. Rogers. Aug. 2018. Influencing factors and implications for mitigation of Chinese tallow in southeast United States (poster). Ecological Society of America Annual Meeting. New Orleans, LA.
162. Montgomery, A. M.\*, **H.-H. Wang**, and W. E. Grant. Aug. 2018. An age-structured population model for bottlenose dolphins: Potential impact of exposure to morbillivirus after the Deepwater Horizon oil spill (poster). Ecological Society of America Annual Meeting. New Orleans, LA.
161. **Wang, H.-H.**, W. E. Grant, P. D. Teel, and J. Lopez. Aug. 2018. Range expansion of invasive plants: Implication for incidence risk of ehrlichiosis in the southern United States (oral presentation). Ecological Society of America Annual Meeting. New Orleans, LA.

160. Baker, A.\*, M. Mogg\*, Z. Derouen\*, **H.-H. Wang**, and W. E. Grant. Aug. 2018. Increasing incidence of Anaplasmosis and Ehrlichiosis in the United States, 2012-2016 (poster). Summer 2018 Undergraduate Research Poster Session. College Station, TX.
159. Derouen, Z. \*, M. Peterson\*, A. Bishop\*, L. Chilongo\*, Y. Marinkovic\*, C. Vazquez\*, S. Heldman\*, **H.-H. Wang**, and W. E. Grant. Aug. 2018. Southeastern distribution of the invasive species, Japanese honeysuckle (*Lonicera japonica*) (poster). Summer 2018 Undergraduate Research Poster Session. College Station, TX.
158. Michalk, A. \*, J. Borski\*, S. Lukose\*, A. Carlos\*, Z. Derouen\*, **H.-H. Wang**, and W. E. Grant. Aug. 2018. Increasing incidence of spotted fever group Rickettsioses in the United States, 2012-2016 (poster). Summer 2018 Undergraduate Research Poster Session. College Station, TX.
157. **Wang, H.-H.**, W. E. Grant, J. K. Westbrook, M. J. Brewer, T. E. Koralewski, T. M. Alves, G. A. Sword, N. C. Elliott. Jun. 2018. Modeling the life cycle and aeroecology of wind-borne crop pests in temporally-variable spatially-heterogeneous environments (oral presentation). 9th International Congress on Environmental Modelling and Software. Fort Collins, CO.
156. Koralewski, T. E., J. K. Westbrook, W. E. Grant, and **H.-H. Wang**. Jun. 2018. Coupling complex physical environmental process models with specific question-driven ecological models (oral presentation). 9th International Congress on Environmental Modelling and Software. Fort Collins, CO.
155. Borski, J. M.\*, A. W. Richardson\*, **H.-H. Wang**, and W. E. Grant. Apr. 2018. Modeling the effects of synthetic estrogen, 17 $\alpha$ -ethinylestradiol, on fountain darter population dynamics (poster). 19<sup>th</sup> Ecological Integration Symposium. College Station, TX.
154. Carbajal, K. \*, P. Camposeco\*, J. Diaz-Lopez\*, **H.-H. Wang**, and W. E. Grant. Apr. 2018. A stage-based population model for Florida manatee: Potential impacts of anthropogenic and catastrophic events (poster). 19<sup>th</sup> Ecological Integration Symposium. College Station, TX.
153. Derouen, Z. \*, A. Bishop\*, M. Peterson\*, S. Heldman\*, Y. Marinkovic\*, C. Vazquez\*, L. Chilongo\*, **H.-H. Wang**, W. E. Grant. Apr. 2018. Mapping the invasion trend of Japanese honeysuckle in southeast United States (poster). 19<sup>th</sup> Ecological Integration Symposium. College Station, TX.
152. Jones, M. \*, Gerke, H. C. \*, **H.-H. Wang**, and W. E. Grant. Apr. 2018. Simulated impacts of the Deepwater Horizon oil spill on loggerhead sea turtle (poster). 19<sup>th</sup> Ecological Integration Symposium. College Station, TX.
151. Marinkovic, Y. \*, M. Peterson\*, S. Heldman\*, C. Vazquez\*, Z. Derouen\*, Y. Marinkovic\*, A. Bishop\*, L. Chilongo\*, **H.-H. Wang**, W. E. Grant, and W. E. Rogers. Apr. 2018. Quantifying biological invasions of Chinese tallow in southeast United States (oral presentation). 19<sup>th</sup> Ecological Integration Symposium. College Station, TX.
150. Montgomery, A. M. \*, **H.-H. Wang**, and W. E. Grant. Apr. 2018. Simulated population trends of bottlenose dolphin with exposure to morbillivirus following the Deepwater Horizon oil spill (poster). 19<sup>th</sup> Ecological Integration Symposium. College Station, TX.
149. Bishop, A. \*, Z. Derouen\*, M. Peterson\*, S. Heldman\*, Y. Marinkovic\*, C. Vazquez\*,

- L. Chilongo\*, **H.-H. Wang**, W. E. Grant. Mar. 2018. Invasive Species distribution of the Japanese Honeysuckle in Southeast United States (oral presentation). Texas A&M Student Research Week 2018. College Station, TX.
148. Borski, J. M.\*, A. W. Richardson\*, **H.-H. Wang**, and W. E. Grant. Mar. 2018. Evaluating the potential effects of synthetic estrogen, 17 $\alpha$ -ethinylestradiol, on endangered fountain darter populations (poster). Texas A&M Student Research Week 2018. College Station, TX.
147. Carbajal, K.\*, P. Camposeco\*, J. Diaz-Lopez\*, **H.-H. Wang**, and W. E. Grant. Mar. 2018. Predicting the impact of anthropogenic and catastrophic events on Florida manatee population (poster). Texas A&M Student Research Week 2018. College Station, TX.
146. Heldman, S. M.\*, M. Peterson\*, C. Vasquez\*, Z. Derouen\*, Y. Marinkovic\*, A. Bishop\*, L. Chilongo\*, **H.-H. Wang**, W. E. Grant, W. E. Rogers. Mar. 2018. The trend of Chinese tallow invasions in southeast United States (poster). Texas A&M Student Research Week 2018. College Station, TX.
145. Jones, M.\*, Gerke, H. C.\*, **H.-H. Wang**, and W. E. Grant. Mar. 2018. Modeling effects of Deepwater Horizon oil spill on the population dynamics of loggerhead sea turtle (*Caretta caretta*) (poster). Texas A&M Student Research Week 2018. College Station, TX.
144. Montgomery, A. M.\*, **H.-H. Wang**, and W. E. Grant. Mar. 2018. Modeling the effects of morbillivirus exposure on bottlenose dolphin population dynamics after the Deepwater Horizon oil spill (poster). Texas A&M Student Research Week 2018. College Station, TX.
143. Carbajal, K.\*, **H.-H. Wang**, and W. E. Grant. Feb. 2018. Estimation of anthropogenic and catastrophic effects of Florida manatee (*Trichechus Manatus Latiostris*) (oral presentation). Undergraduate Research Scholars Symposium. College Station, TX
142. Jones, M.\*, **H.-H. Wang**, and W. E. Grant. Feb. 2018. Estimation of Deepwater Horizon oil spill effects on population dynamics of the loggerhead sea turtle (*Caretta caretta*) (oral presentation). Undergraduate Research Scholars Symposium. College Station, TX
141. Montgomery, A. M.\*, **H.-H. Wang**, and W. E. Grant. Feb. 2018. Evaluation of morbillivirus exposure to bottlenose dolphins following the Deepwater Horizon oil spill (oral presentation). Undergraduate Research Scholars Symposium. College Station, TX
140. Borski, J. M.\*, A. W. Richardson\*, **H.-H. Wang**, and W. E. Grant. Feb. 2018. Effects of the synthetic estrogen, 17 $\alpha$ -ethinylestradiol, on fountain darter populations (poster). 54th Annual Meeting of the Texas Chapter of the Wildlife Society. Dallas, TX.
139. Carbajal, K.\*, P. Camposeco\*, J. Diaz-Lopez\*, **H.-H. Wang**, and W. E. Grant. Feb. 2018. Estimation of anthropogenic and catastrophic effects on Florida manatee (poster). 54th Annual Meeting of the Texas Chapter of the Wildlife Society. Dallas, TX.
138. Heldman, S. M.\*, M. Peterson\*, C. Vasquez\*, Z. Derouen\*, Y. Marinkovic\*, A. Bishop\*, **H.-H. Wang**, W. E. Grant, W. E. Rogers. Feb. 2018. Rapidly increasing invasion by Chinese tallow in southeast United States (poster). 54th Annual Meeting of the Texas Chapter of the Wildlife Society. Dallas, TX.
137. Jones, M.\*, Gerke, H. C.\*, **H.-H. Wang**, and W. E. Grant. Feb. 2018. Estimation of



- Deepwater Horizon oil spill effects on population dynamics of the loggerhead sea turtle (poster). 54th Annual Meeting of the Texas Chapter of the Wildlife Society. Dallas, TX.
136. Marinkovic, Y.\*, A. Bishop\*, K. Carbajal\*, **H.-H. Wang**, T. E. Koralewski, and W. E. Grant. Feb. 2018. Biological invasion and coexistence in the southeast United States (poster). 54th Annual Meeting of the Texas Chapter of the Wildlife Society. Dallas, TX.
135. Montgomery, A. M.\*, **H.-H. Wang**, and W. E. Grant. Feb. 2018. Evaluation of morbillivirus exposure to bottlenose dolphins following the Deepwater Horizon oil spill (poster). 54th Annual Meeting of the Texas Chapter of the Wildlife Society. Dallas, TX.
134. Poché, D., R. Galapati, Z. Torres-Poché, W. E. Grant, and **H.-H. Wang**. Nov. 2017. The importance of Bihari ecology: implications of human and vector-based field studies and quantitative analysis of vector control programs (poster). 2017 Entomological Society of America Annual Meeting. Denver, CO.
133. **Wang, H.-H.** and W. E. Grant. Oct. 2017. Complexity and uncertainty in ecology: Quantitative challenges (poster). 2017 LAUNCH Undergraduate Research Expo. College Station, TX.
132. Borski, J. M.\*, K. Carbajal\*, L. Culpepper\*, M. Jones\*, A. M. Montgomery\*, **H.-H. Wang**, and W. E. Grant. Oct. 2017. Using ecological models in undergraduate research: from endangered to invasive species (poster). 2017 LAUNCH Undergraduate Research Expo. College Station, TX.
131. Borski, J. M.\*, **H.-H. Wang**, and W. E. Grant. Aug. 2017. Evaluating potential effects of Antarctic ice-shelf retreat on blue whale populations: a simulation model of interactions among sea ice, Antarctic krill, and blue whales (poster). 102<sup>nd</sup> Ecological Society of America Annual Meeting. Portland, OR.
130. Camposeco, P.\*, J. Diaz-Lopez\*, M. Ortega\*, **H.-H. Wang**, and W. E. Grant. Aug. 2017. Simulated effects of Indo-Pacific lionfish (*Pterois volitans* and *P. miles*) invasions on parrotfish (scaridae family) populations on coral reefs in the Caribbean (poster). 102<sup>nd</sup> Ecological Society of America Annual Meeting. Portland, OR.
129. Carbajal, K.\*, Y. Marinkovic\*, **H.-H. Wang**, T. E. Koralewski, and W. E. Grant. Aug. 2017. How abiotic and biotic factors shape the coexistence of invasive species (poster). 102<sup>nd</sup> Ecological Society of America Annual Meeting. Portland, OR.
128. Cole, A.\*, **H.-H. Wang**, and W. E. Grant. Aug. 2017. Effects of road development on decreasing population of the endangered Florida panther (poster). 102<sup>nd</sup> Ecological Society of America Annual Meeting. Portland, OR.
127. Culpepper, L.\*, **H.-H. Wang**, W. E. Grant, and W. E. Rogers. Aug. 2017. Species distribution model for management: influencing factors and implications for mitigation of an invasive grass in forestlands of Tennessee (poster). 102<sup>nd</sup> Ecological Society of America Annual Meeting. Portland, OR.
126. Richardson, A. W.\*, **H.-H. Wang**, and W. E. Grant. Aug. 2017. Evaluating the effect of synthetic estrogen (17 $\alpha$  ethinylestradiol) contamination upon fountain darter (*Etheostoma fonticola*) population (poster). 102<sup>nd</sup> Ecological Society of America Annual Meeting. Portland, OR.
125. Carbajal, K.\*, P. Camposeco\*, J. Diaz-Lopez\*, **H.-H. Wang**, and W. E. Grant. Aug. 2017. Estimation of anthropogenic and catastrophic effects of Florida Manatee

- (*Trichechus manatus latirostris*) (poster). Summer 2017 Undergraduate Research Poster Session. College Station, TX.
124. Jones, M.\* , Gerke, H. C.\* , H.-H. Wang, and W. E. Grant. Aug. 2017. Estimation of Deepwater Horizon oil spill effects on population dynamics of the loggerhead sea turtle (*Caretta caretta*) (poster). Summer 2017 Undergraduate Research Poster Session. College Station, TX.
  123. Montgomery, A. M.\* , H.-H. Wang, and W. E. Grant. Aug. 2017. Evaluation of morbillivirus exposure to bottlenose dolphins (*Tursiops truncatus*) following the Deepwater Horizon oil spill (poster). Summer 2017 Undergraduate Research Poster Session. College Station, TX.
  122. Poché, D., R. Galapati, Z. Torres-Poché, W. E. Grant, **H.-H. Wang**, S. Mukherjee, T. Clarke, A. Norris, L. Briley, D. Somers, G. Franckowiak, E. Hasker, R. Poché. May 2017. The importance of Bihari village ecology: implications of human and vector-based field studies and quantitative analysis of vector control programs (oral presentation). 6th World Congress on Leishmaniasis. Toledo, Spain.
  121. Aden, R. E.\* , **H.-H. Wang**, I. Mali, W. E. Grant, and M. Forstner. Mar. 2017. Simulated effects of juvenile survival on adult population dynamics of the Houston toad (poster). Texas A&M Student Research Week 2017. College Station, TX.
  120. Borski, J. M.\* , **H.-H. Wang**, and W. E. Grant. Mar. 2017. Evaluating potential effects of Antarctic ice-shelf retreat on blue whale populations: a simulation model of interactions among sea ice, Antarctic krill, and blue whales (poster). Texas A&M Student Research Week 2017. College Station, TX.
  119. Camposeco, P.\* , J. Diaz-Lopez\* , M. Ortega\* , **H.-H. Wang**, and W. E. Grant. Mar. 2017. Simulated effects of Indo-Pacific lionfish (*Pterois volitans* and *P. miles*) invasions on parrotfish (scaridae family) populations on coral reefs in the Caribbean (poster). Texas A&M Student Research Week 2017. College Station, TX.
  118. Carbajal, K.\* , Y. Marinkovic\* , **H.-H. Wang**, T. E. Koralewski, and W. E. Grant. Mar. 2017. How abiotic and biotic factors shape the coexistence of invasive species (poster). Texas A&M Student Research Week 2017. College Station, TX.
  117. Culpepper, L.\* , **H.-H. Wang**, W. E. Grant, and W. E. Rogers. Mar. 2017. The hunt for the drivers of plant invasions: influencing factors and implications for mitigation of an invasive grass in forestlands of Tennessee (oral presentation). Texas A&M Student Research Week 2017. College Station, TX.
  116. Forks, K. N.\* , T. Suriyamongkol\* , A. Villamizar-Gomez, I. Mali, **H.-H. Wang**, W. Grant, and M. Forstner. Mar. 2017. Use of PVC pipes of different diameters as artificial refuges by green tree frogs in Texas (poster). Texas A&M Student Research Week 2017. College Station, TX.
  115. Gerke, H. C.\* , D. Steen, **H.-H. Wang**, and W. E. Grant. Mar. 2017. A top predator returns: Effects of the eastern indigo snake on herpetological communities in southern Alabama (oral presentation). Texas A&M Student Research Week 2017. College Station, TX.
  114. Kocmoud, A. R. † , W. E. Grant, **H.-H. Wang**, and B. J. Gallaway. Mar. 2017. Stage-structured population model evaluating the post-2010 population trend of Kemp's ridley sea turtles in the Gulf of Mexico: four processes of investigation (poster). Texas A&M Student Research Week 2017. College Station, TX.
  113. Laxton, C.\* , **H.-H. Wang**, and W. E. Grant. Mar. 2017. Simulated effects of poaching

- on the endangered Hawksbill Sea Turtle (*Eretmochelys imbricata*) population dynamics (poster). Texas A&M Student Research Week 2017. College Station, TX.
112. Richardson, A. W.\*, **H.-H. Wang**, and W. E. Grant. Mar. 2017. Evaluating the effect of synthetic estrogen (17 $\alpha$  ethinylestradiol) contamination upon fountain darter (*Etheostoma fonticola*) population (oral presentation). Texas A&M Student Research Week 2017. College Station, TX.
  111. Aden, R. E.\*, **H.-H. Wang**, I. Mali, W. E. Grant, and M. Forstner. Mar. 2017. Simulated effects of juvenile survival on adult population dynamics of the Houston toad (poster). 18th Ecological Integration Symposium. College Station, TX.
  110. Borski, J. M.\*, **H.-H. Wang**, and W. E. Grant. Mar. 2017. Evaluating potential effects of Antarctic ice-shelf retreat on blue whale populations: a simulation model of interactions among sea ice, Antarctic krill, and blue whales (poster). 18th Ecological Integration Symposium. College Station, TX.
  109. Camposeco, P.\*, J. Diaz-Lopez\*, M. Ortega\*, **H.-H. Wang**, and W. E. Grant. Mar. 2017. Simulated effects of Indo-Pacific lionfish (*Pterois volitans* and *P. miles*) invasions on parrotfish (scaridae family) populations on coral reefs in the Caribbean (poster). 18th Ecological Integration Symposium. College Station, TX.
  108. Carbajal, K.\*, Y. Marinkovic\*, **H.-H. Wang**, T. E. Koralewski, and W. E. Grant. Mar. 2017. How abiotic and biotic factors shape the coexistence of invasive species (poster). 18th Ecological Integration Symposium. College Station, TX.
  107. Culpepper, L.\*, **H.-H. Wang**, W. E. Grant, and W. E. Rogers. Mar. 2017. Proactive management of invasive plant species: influencing factors and implications for mitigation of an invasive grass in forestlands of Tennessee (poster). 18th Ecological Integration Symposium. College Station, TX.
  106. Forks, K. N.\*, T. Suriyamongkol\*, A. Villamizar-Gomez, I. Mali, **H.-H. Wang**, W. Grant, and M. Forstner. Mar. 2017. Use of PVC pipes of different diameters as artificial refuges by green tree frogs in Texas (poster). 18th Ecological Integration Symposium. College Station, TX.
  105. Gerke, H. C.\*, D. Steen, **H.-H. Wang**, and W. E. Grant. Mar. 2017. A top predator returns: Effects of the eastern indigo snake on herpetological communities in southern Alabama (poster). First place for undergraduate posters. 18th Ecological Integration Symposium. College Station, TX.
  104. Kocmoud, A. R.<sup>†</sup>, W. E. Grant, **H.-H. Wang**, and B. J. Gallaway. Mar. 2017. Stage-structured population model evaluating the post-2010 population trend of Kemp's ridley sea turtles in the Gulf of Mexico: four processes of investigation (poster). 18th Ecological Integration Symposium. College Station, TX.
  103. Laxton, C.\*, **H.-H. Wang**, and W. E. Grant. Mar. 2017. Simulated effects of poaching on the endangered Hawksbill Sea Turtle (*Eretmochelys imbricata*) population dynamics (poster). 18th Ecological Integration Symposium. College Station, TX.
  102. Richardson, A. W.\*, **H.-H. Wang**, and W. E. Grant. Mar. 2017. Evaluating the effect of synthetic estrogen (17 $\alpha$  ethinylestradiol) contamination upon fountain darter (*Etheostoma fonticola*) population (poster). 18th Ecological Integration Symposium. College Station, TX.
  101. Camposeco, P.\*, J. Diaz-Lopez\*, M. Ortega\*, **H.-H. Wang**, and W. E. Grant. Mar. 2017. Simulated effects of Indo-Pacific lionfish (*Pterois volitans* and *P. miles*) invasions on parrotfish (scaridae family) populations on coral reefs in the Caribbean

- (poster). 2017 TAMUS LSAMP (Texas A&M University System, Louis Stokes Alliance for Minority Participation) Symposium. Prairie View, TX.
100. Culpepper, L.\* , **H.-H. Wang**, W. E. Grant, and W. E. Rogers. Mar. 2017. Tracking its roots: Expansion by Japanese stiltgrass in the forestlands of Tennessee (poster). 2017 TAMUS LSAMP (Texas A&M University System, Louis Stokes Alliance for Minority Participation) Symposium. Prairie View, TX.
  99. Aden, R. E. †, **H.-H. Wang**, I. Mali, W. E. Grant, and M. Forstner. Feb. 2017. Simulated effects of juvenile survival on adult population dynamics of the Houston toad (poster). 53rd Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
  98. Borski, J. M.\* , **H.-H. Wang**, and W. E. Grant. Feb. 2017. Evaluating potential effects of Antarctic ice-shelf retreat on blue whale populations: a simulation model of interactions among sea ice, Antarctic krill, and blue whales (poster). 53rd Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
  97. Camposeco, P.\* , J. Diaz-Lopez\* , M. Ortega\* , **H.-H. Wang**, and W. E. Grant. Feb. 2017. Simulated effects of Indo-Pacific lionfish (*Pterois volitans* and *P. miles*) invasions on parrotfish (Scaridae family) populations on coral reefs in the Caribbean (poster). 53rd Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
  96. Cole, A.\* , **H.-H. Wang**, and W. E. Grant. Feb. 2017. Effects of road development on decreasing population of the endangered Florida panther (poster). 53rd Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
  95. Culpepper, L.\* , W. E. Grant, W. E. Rogers, and **H.-H. Wang**. Feb. 2017. Tracking its roots: Expansion by Japanese stiltgrass in the forestlands of Tennessee (poster). 53rd Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
  94. Gerke, H. C.\* , D. Steen, **H.-H. Wang**, and W. E. Grant. Feb. 2017. A top predator returns: effects of the eastern indigo snake on herpetological communities in southern Alabama (poster). 53rd Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
  93. Kocmoud, A. R. †, W. E. Grant, **H.-H. Wang**, and B. J. Gallaway. Feb. 2017. Stage-structured matrix analyses evaluating the post-2010 population trend of Kemp's ridley sea turtles in the Gulf of Mexico: four processes of investigation (poster). 53rd Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
  92. Richardson, A. W.\* , **H.-H. Wang**, and W. E. Grant. Feb. 2017. Evaluating the effect of pharmaceuticals and polychlorinated biphenyl contamination upon fountain darter population (poster). 53rd Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX.
  91. Culpepper, L.\* , **H.-H. Wang**, W. E. grant, and W. E. Rogers. Jan. 2017. Recent range expansions by Japanese stiltgrass (*Microstegium vimineum* (Trin.) A. Campus) in the forestlands of Tennessee (poster). 8th Biennial Conference of the International Biogeography Society. Tucson, AZ.
  90. Villamizar-Gomez, A., M. R. J. Forstner, T. Suriyamongkol\* , K. N. Forks\* , W. E. Grant, **H.-H. Wang**, and I. Mali. Nov. 2016. Prevalence of *Batrachochytrium dendrobatidis* in two sympatric tree frog species, *Hyla cinerea* and *Hyla versicolor* (oral presentation). Eighth Annual International Research Conference for Graduate Students. San Marcos, TX.

89. **Wang, H.-H.**, C. L. Wonkka, M. L. Treglia, W. E. Grant, F. E. Smeins, and W. E. Rogers. Nov. 2016. Edaphic determinants of the distribution of an endangered terrestrial orchid: Using Maxent as an investigative tool for rare plant conservation. Texas Plant Conservation Conference. Fort Worth, TX.
88. Aden, R. E.\* , L. Culpepper\* , **H.-H. Wang**, I. Mali, W. E. Grant, and M. Forstner. Oct. 2016. Assessing extinction threats of the Houston toad (*Bufo houstonensis*): Effects of sex ratio disparity (poster). The Wildlife Society's 23rd Annual Conference. Raleigh, NC.
87. Arevilca, A.\* , S. Murray\* , M. Ortega\* , S. Stephens\* , **H.-H. Wang**, and W. E. Grant. Oct. 2016. Impacts of gillnet entanglement on population trends of dusky dolphins (*Lagenorhynchus obscurus*) (poster). The Wildlife Society's 23rd Annual Conference. Raleigh, NC.
86. Camposeco, P.\* , J. Diaz-Lopez\* , **H.-H. Wang**, and W. E. Grant. Oct. 2016. Anthropogenic and natural catastrophic effects on the population dynamics of Florida manatee (*Trichechus manatus latirostris*) (poster). The Wildlife Society's 23rd Annual Conference. Raleigh, NC.
85. Cole, A.\* , K. Anthony\* , C. Chen\* , **H.-H. Wang**, T. E. Koralewski, and W. E. Grant. Oct. 2016. Inbreeding Effects on Population Dynamics of the Florida Panther (*Puma concolor coryi*) (poster). The Wildlife Society's 23rd Annual Conference. Raleigh, NC.
84. Suriyamongkol, T.\* , K. N. Forks\* , A. Villamizar-Gomez, I. Mali, **H.-H. Wang**, W. Grant, and M. Forstner. Aug. 2016. Effects of post-wildfire on abundances of green tree frogs (*Hyla cinerea*) using PVC pipes as artificial refuges in burned and unburned areas near Bastrop, Texas (poster). The Wildlife Society's 23rd Annual Conference. Raleigh, NC.
83. Arevilca, A.\* , S. Murray\* , M. Ortega\* , S. Stephens\* , **H.-H. Wang**, and W. E. Grant. Oct. 2016. Effects of gillnet entanglement on mortality of dusky dolphins (poster). 2016 Sigma Xi/LAUNCH Undergraduate Research Expo. College Station, TX.
82. Camposeco, P.\* , J. Diaz-Lopez\* , T. Suriyamongkol\* , **H.-H. Wang**, and W. E. Grant. Oct. 2016. Simulated effects of oil spills and climate catastrophes on demography and population trends of Florida manatee (poster). 2016 Sigma Xi/LAUNCH Undergraduate Research Expo. College Station, TX.
81. Cole, A.\* , K. Anthony\* , C. Chen\* , **H.-H. Wang**, T. E. Koralewski, and W. E. Grant. Oct. 2016. Effects of genetic depletion on estimating risk of extinction of the endangered Florida panther (poster). 2016 Sigma Xi/LAUNCH Undergraduate Research Expo. College Station, TX.
80. Gerke, H. C.\* , K. Beck\* , B. Stamps\* , **H.-H. Wang**, and W. E. Grant. Oct. 2016. Effect of oil spills on populations of the loggerhead sea turtle (poster). 2016 Sigma Xi/LAUNCH Undergraduate Research Expo. College Station, TX.
79. Richardson, A.\* , **H.-H. Wang**, W. E. Grant, M. Fujiwara, and W. E. Rogers. Oct. 2016. Evaluation of frequencies of prescribed burning to control plant invasions on coastal prairie (poster). 2016 Sigma Xi/LAUNCH Undergraduate Research Expo. College Station, TX.
78. Aden, R. E.\* , L. Culpepper\* , **H.-H. Wang**, I. Mali, W. E. Grant, and M. Forstner. Aug. 2016. Simulated effects of sex-ratio disparity on population dynamics of the endangered Houston toad (poster). 101<sup>st</sup> Ecological Society of America Annual

- Meeting. Fort Lauderdale, FL.
77. Arevilca, A.\* , S. Murray\*, M. Ortega\*, S. Stephens\*, **H.-H. Wang**, and W. E. Grant. Aug. 2016. Effects of gillnet entanglement on mortality of dusky dolphins (*Lagenorhynchus obscurus*) (poster). 101<sup>st</sup> Ecological Society of America Annual Meeting. Fort Lauderdale, FL.
  76. Camposeco, P.\* , J. Diaz-Lopez\*, T. Suriyamongkol\*, **H.-H. Wang**, and W. E. Grant. Aug. 2016. Simulated effects of oil spills and climate catastrophes on demography and population trends of Florida manatee (poster). 101<sup>st</sup> Ecological Society of America Annual Meeting. Fort Lauderdale, FL.
  75. Cole, A.\* , K. Anthony\*, C. Chen\*, **H.-H. Wang**, T. E. Koralewski, and W. E. Grant. Aug. 2016. Effects of genetic depletion on estimating risk of extinction of the endangered Florida panther (poster). 101<sup>st</sup> Ecological Society of America Annual Meeting. Fort Lauderdale, FL.
  74. Forks, K. N.\* , T. Suriyamongkol\*, A. Villamizar-Gomez, I. Mali, **H.-H. Wang**, W. Grant, and M. Forstner. Aug. 2016. Use of PVC pipes of different diameters as artificial refuges by green tree frogs in Texas (poster). 101<sup>st</sup> Ecological Society of America Annual Meeting. Fort Lauderdale, FL.
  73. Gerke, H. C.\* , K. Beck\*, B. Stamps\*, **H.-H. Wang**, and W. E. Grant. Aug. 2016. Effect of oil spills on populations of the loggerhead sea turtle (poster). 101<sup>st</sup> Ecological Society of America Annual Meeting. Fort Lauderdale, FL.
  72. Richardson, A.\* , **H.-H. Wang**, W. E. Grant, M. Fujiwara, and W. E. Rogers. Aug. 2016. Evaluation of frequencies of prescribed burning to control plant invasions on coastal prairie (poster). 101<sup>st</sup> Ecological Society of America Annual Meeting. Fort Lauderdale, FL.
  71. Suriyamongkol, T.\* , K. Forks\*, A. Villamizar-Gomez, I. Mali, **H.-H. Wang**, W. E. Grant, and M. Forstner. Aug. 2016. Effects of burning on relative abundances and morphological characteristics of green tree frog in Texas (poster). 101<sup>st</sup> Ecological Society of America Annual Meeting. Fort Lauderdale, FL.
  70. Camposeco, P.\* , J. Diaz-Lopez\*, **H.-H. Wang**, W. E. Grant. Aug. 2016. Simulated effects of human-caused disturbance on population trends of Florida manatee (poster). 2016 Undergraduate Research Summer Poster Session. College Station, TX.
  69. Chen, Chris\* , A. Cole\*, K. Anthony\*, **H.-H. Wang**, T. Koralewski, W. E. Grant. Aug. 2016. Inbreeding effects on demography and population trends of the endangered Florida panther (poster). 2016 Undergraduate Research Summer Poster Session. College Station, TX.
  68. Suriyamongkol, T.\* , K. Forks\*, A. Villamizar-Gomez<sup>†</sup>, I. Mali, **H.-H. Wang**, W. E. Grant, M. Forstner. Aug. 2016. Effects of wildfire on abundances and morphological characteristics of green tree frog in Bastrop, Texas (poster). 2016 Undergraduate Research Summer Poster Session. College Station, TX.
  67. Poche, D.<sup>†</sup>, 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.
  66. 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.
65. **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.
  64. 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.
  63. 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.
  62. 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.
  61. 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.
  60. 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.
  59. 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.
  58. 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.
  57. 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.
  56. 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.
  55. 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.
  54. 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.

53. 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.
52. 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.
51. 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.
50. **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.
49. 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.
48. 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.
47. 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.
46. 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. Cómicas-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.
45. 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.
44. 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.
43. 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.
42. 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.
  41. 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.
  40. **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.
  39. 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.
  38. 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.
  37. 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 (poster). The American Association of Veterinary Parasitologists 60th Annual Meeting. Boston, MA.
  36. 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.
  35. 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.
  34. 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.
  33. 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.
  32. 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.
  31. 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.
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6. **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.
  5. **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.
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  1. **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.

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