Weimin Xi, Ph.D.

Tenured Professor of Biology, Certified Senior Ecologist

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Xi Lab; Faculty Webpage Google Scholar Profile; ResearchGate Profile ORCID (Open Researcher and Contributor ID) Profile

EDUCATION

Doctor of Philosophy Master of Science Bachelor of Science with honors Biology, University of North Carolina at Chapel Hill, USA Biology, Southwest University, Chongqing, China Geography, Capital Normal University, Beijing, China

2022 September-Present

2017 September-2022 August

PROFESSIONAL APPOINTMENT

Department of Biological and Health Sciences, Texas A&M University-Kingsville

Tenured Full Professor, Doctoral Graduate Faculty

Yale School of the Environment, Yale University

Visiting Fellow 2024 August-2024 December

Tenured Associate Professor, Doctoral Graduate Faculty

Assistant Professor, Graduate Faculty 2013 September-2017 August

Department of Forest and Wildlife Ecology, University of Wisconsin-Madison

Research Associate 2010 May-2013 July

Department of Entomology, Texas A&M University

Postdoctoral Research Associate 2005 December-2010 April

Department of Biology, University of North Carolina at Chapel Hill

Ph.D. Candidate/Research Assistant 2000 Sept.-2005 November

Department of Biology, University of North Carolina at Chapel Hill

Visiting Research Instructor 1998 September-2000 August

Department of Biology, University of North Carolina at Chapel Hill

Visiting Scholar 1997 August-1998 August

Department of Geography, Capital Normal University

Associate Professor 1993 August-1997 July

Department of Geography, Capital Normal University

Assistant Professor, Lecturer 1984 August-1993 July

HONORS AND AWARDS (Selected)

- Dean's Award for Outstanding Scholarly & Creative Production, College of Arts and Sciences, Texas A&M University-Kingsville, 2019
- 2. Dean's Award for Outstanding Service, College of Arts and Sciences, Texas A&M University-Kingsville, 2017
- 3. University Digital Fellow, Texas A&M University-Kingsville, 2017
- 4. Because You Care Award by Keep Kingsville Beautiful, City of Kingsville, 2015
- 5. The Impact Award by the Graduate School, University of North Carolina at Chapel Hill, 2009
- 6. Certified Senior Ecologist by Ecological Society of America, 2008-Present
- 7. Sigma Xi (The Scientific Research Society), Selected full member 2003-Present

TEACHING PERFORMANCE SUMMARY

- 1. Developed and taught **18** undergraduate and graduate courses in general biology, ecology, human ecology, disease and health, plant taxonomy, plant systematics, undergraduate research project, writing intensive seminar and research problems in the past years at Texas A&M University-Kingsville (**SRI 4.65/5**)
- 2. Doctoral graduate faculty membership and supervised/co-supervised 11 Master's degree students (9 graduated, 2 in progress)
- 3. Served or serving on the thesis committees of 3 Ph.D. students (3 graduated) and 5 Master's degree students (4 graduated, 1 in progress)
- 4. Hosted for 3 international scholars (3 completed)
- 5. Supervised 20+ undergraduate senior/honors research and career advisor for about 20+ undergraduates annually
- 6. Developed 2 ecological modeling and meta-data analysis summer workshops

TEACHING EXPERENCE

Department of Biological and Health Sciences, Texas A&M University-Kingsville

Assistant Professor (2013-2017), Tenured Associate Professor (2017-2022), Tenured Professor (2022- Present)

Thesis/project supervision (Advisor and Graduate Committee Chair, 8 completed, 1 in progress):

- 1. Sadguni Boppana, Global distribution and health risks of Scrub Typhus caused by *Orientia Tsutsugamushi*, May, 2016, was a quality engineer at Abbott Laboratories, Sylmar, CA (Completed)
- 2. Mukti Ram Subedi, Evaluating geospatial distribution of drought, drought-induced tree mortality, and biomass loss in east Texas, August 2016 (Award winner for 2015 Javelina Habitat Student Competition \$3,000 project, graduated with Ph.D. from Texas Tech University and current a postdoctoral researcher at UGA) (Completed)
- 3. Alex Rahmlow, Quantifying the benefits of street trees in Corpus Christi, Texas, using i-Tree StreetsTM, December, 2016 (Texas A&M University System 12th Annual Pathways Student Research Symposium First Place Master's Level in Life Science and First place for Master's level Distinguished Poster Presentation in Research, TAMUK John F. Sinclair and Bogusch Scholarship, was an Operations and Policy Analyst, Oregon Department of Forestry) (Completed)
- 4. Ruiren Zhou, A cost-benefit analysis and eco-service modeling of urban trees and green infrastructure in the city of Corpus Christi, Texas, December, 2017, currently a postdoctoral researcher at Shanghai Jiao Tong University, China (Completed)
- 5. Tilak Chaudhary, Coupled effects of exceptional drought and climate change on forest structure, tree diversity, and aboveground biomass in east Texas, USA, December, 2021, currently a Ph.D. student at Texas State University (Completed)
- 6. John Loverin, Assessing resilience of forests to wildfires and fuel management in northern California through forest inventory and aerial photography analyses, December, 2021, currently a data analysist at Pearson (Completed)
- 7. Nicholas Dewez, Effects of an exceptional drought on tree mortality and stand development in the national forests of Texas, May, 2022, currently a Ph.D. student at University of Toronto (**Completed**)
- 8. Roshan P. Bhatta, Changes in tree survival, stand growth, and carbon dynamics in response to exceptional drought in East Texas forests, May, 2024, currently a Ph.D. student at University of Idaho (Completed)
- 9. Jazmin N. Johns, Spatio-temporal analysis of county-based human West Nile virus incidence and the contributing factors in Texas (2022-2025, **in progress**)
- 10. Nicholaus A. Benavides, (2025-, in process)

Thesis supervision (Graduate Committee Co-Chair, 1 completed)

1. Rohan Jayasuriya, Seasonal monitoring of water quality and waste water effluent discharges along the Lower Rio Grande, Texas, December, 2015 (Award winner for 2015 Javelina Habitat Student Competition \$3,000 project, currently Project Manager/Engineer, Project Manager Water Development Board, Texas Commission on Environmental Quality). (Completed)

International scholar supervision (3 completed)

- 1. Dr. Hansheng Wang, Institute of Soil and Water Conservation, Chinese Academy of Sciences & Northwest A&F University, China, October 2014 January 2015, currently Associate Professor (Completed)
- 2. Dr. Juan Qin, Anhui Agricultural University, China, August 2015 August 2016, currently Associate Professor (Completed)
- 3. Dr. Ming Yan, Shanxi Normal University, China, February 2018 February 2019, currently Associate Professor (Completed)

Ph.D. student committees/Graduate council representative (3 completed)

- 1. Srikanth Bashetty, 2020. Dynamics of a semi-submersible offshore floating multi-wind-turbine platform (Completed)
- 2. Abe Woodard, 2021. Aspects of hunting on northern bobwhite quail populations: temporal and spatial analysis (Completed)
- 3. Jeff Godwin, 2022. Influence of soil organic carbon on soil dynamic properties and ecological function in the southern Great Plains (Completed)

MS student committees (4 completed, 1 in progress)

- 1. Ashley Mccloughan, 2015. *Hoffmannseggia tenella* (slender rush-pea): understanding the community diversity and competitive effects of an endangered south Texas species (**Completed**)
- 2. Elliott R Cheng, 2018. The effects of saturated fatty acids on adipogenesis (Completed)
- 3. Elizabeth Surovic, 2020. Spatial distribution of the snake genus Chironius in Bolivia (Completed)
- 4. Jose Cortez, 2021. Accelerating maturation of thornscrub habitat for ocelots (Completed)
- 5. Forrest Fay, 2022-2025, Effects of patch burning on nearest-neighbor relationships and species composition in grazed southern Texas' coastal prairies (in progress)

Undergraduate senior/honors research projects supervised (21 completed, 1 in progress)

- 1. Jessica Quintana, Integration of plant species collected in south Texas into a digital collection, 2014
- 2. Ramon Lopez III, Exploring the conservation implications of an endangered species (Slender Rush-pea, *Hoffmannseggia tenella*), 2015 (Award winner for 2015 Javelina Habitat Student Competition \$1,000 project)
- 3. Robert Ramos, Exploring wildflowers of south Texas, 2016
- 4. Tiffany Fleming, Field monitoring endangered species (Slender Rush-pea, Hoffmannseggia tenella), 2016
- 5. Vishwa Sureja, Case study on human disease, 2016
- 6. Tasheena B Moore, An exploration of the knowledge gaps on prostate and ovarian cancer, 2017
- 7. Daniela Pulido Salinas, Abundance and distribution of mosquitoes in Texas, 2019
- 8. Raquel Balderas, Assessing the health benefits of urban trees and the challenges of Houston trees, 2019
- 9. William Corkill, Ecology course redesign support (I), 2019
- 10. Alexis Hernandez, Ecology course redesign support (II), 2019
- 11. Cyndi Alvizo, COVID-19: A Study of a Novel Disease, 2019
- 12. Mario H Gonzalez, Plant collection dataset, 2020
- 13. Omolara Falade, Forests of south Texas: A regional analysis report, 2021
- 14. Adesnie Gomez, Forests of south Texas: Changes in tree composition, 2021
- 15. Bianca Blanco, Forests of south Texas: Changes in stand structure, 2021
- 16. Veronica Barbosa, Forests of south Texas: Sapling dynamics, 2021
- 17. Paraculeta Nnadi, Forests of south Texas: Seedling dynamics, 2021
- 18. Dalenisa Coronado, Application of using artificial intelligence and its impact on undergraduate learning in Biology, 2023
- 19. Alexa N Mendietta, Assessing the impact of green rooms on student well-being in educational settings, 2024
- 20. Brendan Joyce, Digital Herbarium: transcribing digital specimen data, 2024
- 21. Michelle Avila Flores: Digital Herbarium: transcribing digital specimen data, 2024
- 22. Sixto Vela, South Texas phenology, 2025 (in progress)

Undergraduate advising

- 1. Course and career advisor for approximately 25 undergraduates annually
- 2. Wrote 20+ recommendation letters for undergraduates for applying graduate and professional schools
- 3. Professor advisor for 4 TAMUK student engagement through service learning projects

Ecological modeling and meta-data analysis workshops

- 1. Organized and taught a LANDIS-II model workshop and training in the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences. Beijing, China. July 25-27, 2014
- 2. Organized and taught a LANDIS-II model and meta-data analysis workshop and training in the College of Forestry, Northwest A&F University, Yangling, China. July 4-12, 2015

Department of Forest and Wildlife Ecology, University of Wisconsin-Madison

Research Associate

2010 May - 2013 July

- 1. Instructor for LANDIS-II user training course and workshop, the University of Wisconsin-Madison, January 2012
- 2. Instructor for a LANDIS-II user training course and workshop in the 8th International Association for Landscape Ecology (IALE) Congress, August 2011, Beijing, China

- 3. Instructor/coordinator for the LANDIS-II users and developers' group at the University of Wisconsin-Madison
- 4. Advised and coordinated PhD and Masters graduate students to conduct research

Department of Entomology, Texas A&M University

Postdoctoral Research Associate

2005 December - 2010 April

- 1. Led, advised and coordinated PhD. and Masters graduate students to conduct research for USDA Forest Service supported research projects
- 2. Guest lecture for graduate-level 'Landscape Ecology' class

Department of Biology, University of North Carolina at Chapel Hill

Teacher Link Fellow

2003 May - 2005 November

1. Assisted school teachers learning under a NSF-supported program organized by Duke University, Sigma Xi, and North Carolina Science, Mathematics, and Technology Education Center

Teaching Assistant

2002, 2003, 2005

- 1. Taught Human Anatomy lab courses for biology-major undergraduates and graduates
- 2. Presented research in graduate and department seminars

Visiting Scholar and Research Instructor

1997 August - 2000 July

- 1. Instructed undergraduates and graduates for forest ecology research
- 2. Led assistants to conduct fieldwork for a NSF-supported research project

Department of Geography, Capital Normal University

Associate Professor

1993 August - 1997 July

- 1. Served as advisors for 4 graduate and 30+ senior undergraduate students for their thesis work
- 2. Developed training program for school teachers to take graduate-level courses to improve computer skills
- 3. Taught for undergraduate (plant geography, biogeography) and for graduates (Ecology, Applied GIS and Spatial Analysis)

Department of Geography, Capital Normal University

Assistant Professor, Lecturer

1984 August - 1993 July

- 1. Taught for undergraduate students (Plant taxonomy, Plant geography, Biogeography)
- 2. Designed and conducted physical geography lab courses and developed field trips

PUBLICATIONS

SUMMARY

- 1. 120+ publications: 90+ peer-review journal articles, 30+ journal special issue/book and encyclopedia chapters
- 2. 60+ invited papers, seminars, and tutorials presented at international conferences and research institutions
- 3. Organized/chaired/judged numerous international conferences, symposia, and local student competition events
- 4. Served or serves as a reviewer of papers for \sim 40 referred national and international journals
- 5. Google Scholar Citations: 2138, h-index: 25, i10-index: 53

Selected refereed journal articles (*corresponding author) 2025

- 91. Yan, Ming, QianQian Wang, Jing Yan, **W. Xi***. Effects of drought on survival of different forest tree species based on survival analysis. *Chinese Journal of Ecology* (Under revision).
- 90. Dewez, Nicholas; **W. Xi***, Tilak Chaudhary; Duston Duffie; Sandra Rideout-Hanzak; Ambrose O. Anoruo. Predicting changes in aboveground biomass in central East Texas forests under drought and climate change. *Ecological Modelling* (Under revision).
- 89. Zhang, Xufang, Junyu Lu, Aaron Stottlemyer, W. Xi, Yuhui Weng. Spatial and economic dynamics of forest disturbances: A case study in Texas, USA. *Land Use Policy* (Under review).
- 88. Estabrook, Thomas, Jeremy Fried, **W. Xi***, Haibin Su, Jianwei Zhang. Linking burn severity to pre-fire forest structure and weather on the Dixie fire offers potential to map prospective burn severity. *Canadian Journal of Forest Research* (In press).
- 87. Liu, Zhiping, **W. Xi***, Mukti R. Subedi, Yan, Xufang Zhang, Ming Yan. The impacts of large-scale climate extremes on aboveground biomass in subtropical pine-dominant forests of Texas, USA: 20 years of monitoring. *Journal of Forestry Research 36*, 83 (2025). https://doi.org/10.1007/s11676-025-01872-5.

2024

- 86. Cheng, Yongsheng, Tianyu Wang, **W. Xi,** Ming Yan. 2024. Ecological niches and interspecific associations of dominant species within an endangered *Gymnadenia Conopsea* (L.) R. Br. Community. *Plant Science Journal*, 42(4): 444-453 (doi:10.11913/PSJ.2095-0837.23229).
- 85. Loverin, John K., **W. Xi***, Haibin Su, Jianwei Zhang. 2024. Thinning and managed burning enhance forest resilience in northeastern California. *Ecosystem Health and Sustainability*, Vol. 10 Article ID: 0164 (doi:10.34133/ehs.0164).
- 84. Dewez, Nicholas; **W. Xi***, Duston Duffie; Mukti. Subedi; Tilak Chaudhary; Sandra Rideout-Hanzak; Ambrose Anoruo; Thomas Estabrook. 2024. Analysis of forest inventory data shows disparity in tree mortality and resistance in Texas national forests. *Journal of Forestry* (doi:10.1093/jofore/fvad 059).

2023

- 83. Yan, Ming, Yanmei Chen, Jing Yan, **W. Xi*.** 2023. Studying forest tree mortality based on a generalized linear mixed-effects model. *Acta Ecologica Sinica* 44 (6) (in Chinese, doi: 10.5846/stxb202304270878).
- 82. Yan, Ming, Xiaoyu Liu, Qingqing Liu, Zhiping Liu, **W. Xi*.** 2023. Post-drought carbon dynamics and driving factors in East Texas national forests, USA, *Chinese Journal of Ecology* 43(1) (in Chinese, online published 2023-07-28).

2022

- 81. Chaudhary, Tilak, **W. Xi***, Mukti Subedi, Sandra Rideout-Hanzak, Haibin Su, Nicholas Dewez, Stephen Clarke. 2022. East Texas forests show strong resilience to exceptional drought. *Forestry: An International Journal of Forest Research* 1-14, cpac050, doi: 10.1093/forestry/cpac050.
- 80. Yan, Ming, Qingqing Liu, Zhiping Liu, W. Xi*. 2022. Impacts of drought and stand factors on tree mortality: A case study of national forests in east Texas, USA. *Chinese Journal of Applied Ecology* 33(11): 2897-2906 (in Chinese, doi:10.13287/j.1001-9332.202211.002).
- 79. Yan, Ming, Zhiping Liu, Mukti R. Subedi, Linfeng Liang, **W. Xi***. 2022. The complex impacts of unprecedented drought on forest tree mortality: a case study of dead trees in east Texas, USA. *Acta Ecologica Sinica*, 42(3): 1034-1046 (in Chinese, doi: 10.5846/stxb202101150152).

2021

78. Subedi, Mukti R., **W. Xi***, Christopher B. Edgar, Sandra Rideout-Hanzak, Ming Yan. 2021. Tree mortality and biomass loss in drought-affected forests of East Texas, USA. *Journal of Forestry Research*: 32(1):67–80 (Online published 26 March 2020, doi.org/10.1007/s11676-020-01106-w).

2020

- 77. **Xi, W.***, Xiaohuan Zhou, Jianwei Zhang. 2020. LANDISVIEW 2.0: An upgraded visualization and analytical tool for landscape modeling, *Environmental Modelling & Software* 34: 104849. (doi.org/10.1016/j.envsoft.2020.104849).
- 76. Ling, Pui-Yu; Stephen Prince; Giovanni Baiocchi, Caren Dymond, W. Xi; George. Hurtt. 2020. Impact of fire and harvest on forest ecosystem services in a species-rich area in the Southern Appalachians. *Ecosphere*: 11(6) Article e03150 (doi:10.1002/ecs2.3150).

Before 2020

- 75. **Xi***, **W**., Robert K. Peet, Michael T. Lee, Dean L. Urban. 2019. Hurricane disturbances, tree diversity, and succession in North Carolina Piedmont forests, USA. *Journal of Forestry Research* (Invited paper) 30 (1): 219-231.
- 74. Subedi, Mukti R., **W. Xi***, Christopher B. Edgar, Sandra Rideout-Hanzak, Brent C. Hedquist. 2019. Assessment of geostatistical methods for spatiotemporal analysis of drought patterns in east Texas, USA. *Spatial Information Research* 27 (1): 11–21.
- 73 Qin, Juan, Zhouping Shangguan, W. Xi*. 2019. Seasonal variations of leaf traits and drought adaptation strategies of four common woody species in South Texas, USA. *Journal of Forestry Research* (Invited paper) 30(5) 1715-1725 (doi:10.1007/s11676-018-0742-2). First Online 10 July 2018.
- 72. Sun, H., E. Dai, Y. Li, W. Xi*. 2018. Climate change and sustainable forestry: a regional perspective from northeast China. *The Forestry Chronicle* 94(03): 201-207.
- 71. Dai, E, Jianjia Zhu, Xiaoli Wang, **W. Xi**. 2018. Multiple ecosystem services of monoculture and mixed plantations: A case study of the Huitong experimental forest of Southern China. *Land Use Policy* 79(10): 717-724.

- 70. Wu, Z, E. Dai, Q. Ge, W. Xi, X. Wang. 2017. Modelling the integrated effects of land use and climate change scenarios on forest ecosystem aboveground biomass, a case study in Taihe County of China (in Chinese). *Acta Geographica Sinica*. 72:1539-1554.
- 69. Dai, E., X. Wang, J. Zhu, W. Xi. 2017. Quantifying ecosystem service trade-offs for plantation forest management to benefit provisioning and regulating services. *Ecology and Evolution* 7:7807-7821.
- 68. He, B, T. Guo, H. Huang, **W. Xi**, X. Chen. 2017. Physiological responses of *Scaevola aemula* seedlings under high temperature stress. *South African Journal of Botany* 112:203-209.
- 67. Wu, Z, E. Dai, Q. Ge, **W. Xi**, X. Wang. 2017. Modelling the integrated effects of land use and climate change scenarios on forest ecosystem aboveground biomass, a case study in Taihe County of China. *Journal of Geographical Sciences* 27(2):205-222.
- 66. McCloughan, Ashley, Sandra Rideout-Hanzak, David Wester, **W. Xi**. 2017. Evaluating removal of competition on morphology of endangered Slender Rush-Pea (*Hoffmannseggia tenella*) endemic to southern Texas, USA. *Natural Areas Journal*: 37(3):382-393.
- 65. Qin, Juan, **W. Xi***, Alexander Rahmlow, Haiyan Kong, Zhen Zhang, Zhouping Shangguan. 2016. Effects of forest plantation types on leaf traits of Ulmus pumila and Robinia pseudoacacia on the Loess Plateau, China. *Ecological Engineering*: 97:416-425.
- 64. Dai, Erfu, Heng Zhu, Zuo Wu, Xiaofan Wang, **W. Xi**, Jianjia Zhu. 2016. The impact of climate change on forest aboveground biomass in the Moshao forest farm of Huitong station (in Chinese). *Chinese Journal of Applied Ecology*: 27(10):3059-3069.
- 63. Dai, E., Z. Wu, Q. Ge, W. Xi, X. Wang. 2016. Predicting the responses of forest distribution and aboveground biomass to climate change under RCPs scenarios in southern China. Global Change Biology: 22 (11):3642-3661.
- 62. **Xi, W.***, E Dai, HS. He. 2016. Advances in forest landscape models: current research and applications. *Progress in Geography*: 35(1):35-46 (in Chinese, invited review).
- 61. Ren, Yin, Shanshan Chen, Xiaohua Wei, W. Xi, Yunjian Luo, Xiaodong Song, Shudi Zuo, Yusheng Yang. 2016. Disentangling the factors that contribute to variation in forest biomass increment in the mid-subtropical forests of China. *Journal of Forestry Research* 27(4): 919-930.
- 60. Wang, Lai, Chonggao Zhong, Pengxiang Gao, W. Xi, Shuoxin Zhang. 2015. Soil infiltration characteristics in agroforestry systems and their relationships with the temporal distribution of rainfall on the Loess Plateau in China. *PLOS ONE* 10 (4): e0124767. doi:10.1371/journal.pone.0124767.
- 59. Wang, Qingning, Xuehui Yi, Hansheng Wang, W. Xi. 2015. Soil moisture regime of fish-scale pits for land preparation engineering in Loess slope vegetation. *Chinese Journal of Soil Science* 46 (4): 866-872 (in Chinese).
- 58. **Xi, W**. Synergistic effects of tropical cyclones on forest ecosystems: A global synthesis. 2015. *Journal of Forestry Research* 26(1):1-18 (**Invited review, high citation award**).
- 57. Hou, Lin, **W. Xi**, Shuoxina Zhang. 2015. Effect of understory on a natural secondary forest ecosystem carbon budget. *Russian Journal of Ecology* 46(1): 51-58.
- 56. Dai, Erfu, Zhuo Wu, Xiaofan Wang, Hua Fu, **W. Xi**, Tao Pan. 2015. Progress and prospect of research on forest landscape models. *Journal of Geographical Sciences* 25(1):113-128.
- 55. Xu, Huasen, Huaxing Bi, W. Xi, Randy L. Powell, Lubo Gao and Lei Yun. 2014. Root distribution variation of crops under walnut-based intercropping systems in the Loess Plateau of China. *Pakistan Journal of Agricultural Sciences* 51(3):1-6.
- 54. **Xi, W.***, Fugui Wang, Peili Shi, Erfu Dai, Ambrose O. Anoruo, Huaxing Bi, Alexander Rahmlow, Binghui He, and Wenhua Li. 2014. Challenges to sustainable development in China: a review of six large-scale forest restoration and land conservation programs. *Journal of Sustainable Forestry* 33(5): 435-453.
- 53. Mairota, Paola, Vincenzo Leronni, **W. Xi**, David J. Mladenoff, Harini Nagendra. 2014. Using spatial simulations of habitat modification for adaptive management of protected areas: Mediterranean grassland modification by woody plant encroachment. *Environmental Conservation* 41(2):144-156.
- 52. Birt, Andrew G., Zeng, Yu, Maria Tchakerian, Robert N. Coulson, Charles W. Lafon, David M. Cairns, John D. Waldron, **W. Xi**, Szu-Hung Chen, Douglas Streett. 2014. Evaluating Southern Appalachian forest dynamics without eastern hemlock: Consequences of herbivory by the hemlock woolly adelgid. *Open Journal of Forestry* 4 (2) 91-99.
- 51. Xu, Huasen, Huaxing Bi, Lubo Gao, Lei Yun, Yifang Chang, W. Xi, Wenchao Liao, Biao Bao. 2013. Distribution and morphological variation of fine root in a walnut-soybean intercropping system in the Loess Plateau of China. *International Journal of Agriculture and Biology* 15(5):998-1002.
- 50. Wang, Xiaoyan, W. Xi, Niels Anten, Huaxing Bi. 2013. Development of root-carving industry leads to ecological and environmental degradation in China. *Forest Research: Open Access* 2:113.
- 49. Chen, Jingjing, Binghui He, Xiaoyan Wang, Yun Ma, W. Xi. 2013. The effects of *Herba Andrographitis* hedgerows on soil erodibility and fractal features on sloping cropland in the Three Gorges Reservoir area. *Environmental Science and Pollution Research* 20(10):7063-7070.

- 48. Gao, Lubo, Huasen Xu, Huaxing Bi, **W. Xi**, Biao Bao, Xiaoyan Wang, Chao Bi, Yifang Chang. 2013. Intercropping Competition between apple trees and crops in agroforestry systems on the Loess Plateau of China. *PLOS ONE* 8(7): e70739. doi:10.1371/journal.pone.0070739.
- 47. He, Weiming, **W. Xi***, Niels Anten. 2013. Chronic wind modulates seedling recruitment, inter-specific competition, species abundance, and community productivity. *Journal of Arid Environments* 90(1) 69-76.
- 46. Wang, Lei, Andrew G. Birt, Charles W. Lafon, David M. Cairns, Robert N. Coulson, Maria D. Tchakerian, W. Xi, Sorin C. Popescu, James M. Guldin. 2013. Computer-based synthetic data to assess the tree delineation algorithm from airborne LiDAR survey. *Geoinformatica* 17(1):35-61.
- 45. Shang, Zongbo, Hong S. He, **W. Xi***, Stephen R. Shifley, Brian J. Palik. 2012. Integrating LANDIS model and a multi-criteria decision-making approach to evaluate national forest management plan in Missouri Ozarks, USA. *Ecological Modelling* 229(1):50-63.
- 44. **Xi, W.**, Szu-Hung Chen, Yi-Chien Chu. 2012. The synergistic effects of typhoon and earthquake disturbances on forest ecosystems: Lessons from Taiwan for ecological restoration and sustainable management. *Tree and Forestry Science and Biotechnology* 6(1):27-33.
- 43. **Xi, W.**, Robert K. Peet, Dean L. Urban. 2012. The impacts of large hurricane on understory sapling dynamics and diversity in North Carolina Piedmont forests, USA. *Tree and Forestry Science and Biotechnology* 6(1):51-59.
- 42. Jonas, Sarah Z., W. Xi, John D. Waldron, Robert N. Coulson. 2012. The impacts of hemlock decline and the ecological considerations for forest restoration following hemlock woolly adelgid outbreaks. *Tree and Forestry Science and Biotechnology* 6(1):22-26.
- 41. Wu, Yuna, Jianping Tao, **W. Xi**, Ke Zhao, Jianhui Hao. 2011. The edge effects on tree-liana relationship in a secondary natural forest in Bawangling Nature Reserve, Hainan Island, China. *Acta Ecologica Sinica* 31(11): 3054-3059.
- 40. Birt, Andrew G., Valdez-Vivas, Martin, Richard M. Feldman, Charles W. Lafon, Robert N. Coulson, Maria D. Tchakerian, W. Xi, David M. Cairns, James M. Guldin. 2010. A simple, stochastic weather generator for ecological modelling. *Environmental Modelling & Software* 25(10):1252-1255.
- 39. **Xi, W.***, Robert N. Coulson, Andrew G. Birt, Zongbo Shang, John D. Waldron, Charles W. Lafon, David M. Cairns, Maria D. Tchakerian, Kier D. Klepzig. 2009. Review of forest landscape models: methods, development, and applications. *Acta Ecologica Sinica* (International Journal) 29(1):69-78.
- 38. Birt, Andrew G., Richard M. Feldman, David M. Cairns, Robert N. Coulson, Maria D. Tchakerian, **W. Xi**, James M. Guldin. 2009. Stage structured matrix models for organisms with non-geometric development times. *Ecology* 90(1):57-68. **Impact Factor: 5.72**
- 37. **Xi, W.***, John D. Waldron, Charles W. Lafon, David M. Cairns, Andrew G. Birt, Maria D. Tchakerian, Robert N. Coulson, Kier D. Klepzig. 2009. Modeling long-term effects of altered fire regimes following southern pine beetle outbreaks. *Ecological Restoration* 27(1):24-26.
- 36. Birt, Andrew G., **W. Xi***, Robert N. Coulson. 2009. LANDISVIEW: A visualization tool for landscape modeling. *Environmental Modelling & Software* 24(11):1339-1341.
- 35. **Xi, W.***, Lei Wang, Andrew G. Birt, Maria D. Tchakerian, Robert N. Coulson, Kier D. Klepzig. 2008. An integrated approach to mapping forest conditions in the southern Appalachians. *Ecological Restoration* 26(4): 290-292.
- 34. **Xi, W.***, Robert K. Peet, James K. DeCoster, Dean L. Urban. 2008. Tree damage risk factors associated with large, infrequent wind disturbances of Carolina forests. *Forestry* 81(3):317-334.
- 33. **Xi, W.***, Robert N. Coulson, John D. Waldron, Maria D. Tchakerian, Charles W. Lafon, David M. Cairns, Andrew G. Birt, Kier D. Klepzig. 2008. Landscape modeling for forest restoration planning and assessment: Lessons from the southern Appalachian Mountains. *Journal of Forestry* 106(4):191-197.
- 32. **Xi, W.***, Robert K. Peet, Dean L. Urban. 2008. Changes in forest structure, species diversity, and spatial pattern following hurricane disturbance in a Piedmont North Carolina forest, USA. Journal of Plant Ecology 1(1):43-57.
- 31. **Xi, W.***, Robert K. Peet. 2008. Hurricane effects on the Piedmont forests: Patterns and implications. *Ecological Restoration* 26(4):295-298.
- 30. Cairns, David M., Charles W. Lafon, John D. Waldron, Maria Tchakerian, Robert N. Coulson, Kier D. Klepzig, Andrew G. Birt, **W. Xi**. 2008. Simulating the reciprocal interaction of forest landscape structure and southern pine beetle herbivory using LANDIS. *Landscape Ecology* 23(4):403-415 (Henry C. Cowles Award of Association of American Geographers for outstanding paper).
- 29. **Xi, W.***, Robert K. Peet. 2008. Long-term studies of forest dynamics in the Duke Forest, southeastern United States: A synthesis. *Chinese Journal of Plant Ecology* 32(2):299-318 (in Chinese) (**Invited review**).
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- 2. **Xi, W.** 2017. Responses of urban trees to human disturbance and emerging contaminant stress. The International Symposium on Emerging Contaminants and Environmental Nanotechnology (ISECEN). College of Environmental Science and Engineering, Nankai University, Tianjing, China.
- 3. Sun, H., E. Dai, Y. Li, W. Xi*. 2017. Climate change and sustainable forestry: a regional perspective from northeast China., International Symposium on Sustainable Forest Management in the Context of Global Change (ISSFM-CGC), August 1-3, 2017 Harbin, China.
- 4. **Xi, W**. Landscape forest modeling under climate change. July 2015. College of Forestry, Northwest A&F University, Yangling, China.
- 5. **Xi, W**. Forest change under warmer climate and increasing land use: Progress in forest landscape modeling. August 2015. The Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China.
- 6. **Xi, W.** Forest change under warmer climate and increasing land use: Progress in forest landscape modeling. August 2014. The Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang, China.
- 7. **Xi, W**. Future scenarios of forest change under warmer climate and increasing land use in northern Wisconsin: A landscape modeling approach. August 2011. The School of Environment, Tsinghua University, Beijing, China.
- 8. **Xi, W**. Simulating the impacts of climate change, land use and mitigation strategies on forest biomass in northern Wisconsin. August 2011. The Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang, China.
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Regional

- 1. **Xi, W.**, John D. Waldron, Andrew G. Birt, Maria D. Tchakerian, Charles W. Lafon, David M. Cairns, Robert N. Coulson. Modeling long-term effects of altered fire regimes and restoration following southern pine beetle outbreaks. Presented at the 36th East Texas Forest Entomology Seminar. October 22-23, 2009. Nacogdoches and Lufkin, TX, USA.
- 2. **Xi, W.**, Charles W. Lafon, David M. Cairns, Maria Tchakerian, John D. Waldron, Andrew G. Birt, Kier D. Klepzig, Robert N. Coulson. Restoration of southern Appalachian forests following infestation by the southern pine beetle: a summary of discoveries. Presented at the 35th East Texas Forest Entomology Seminar. April 3-4. Nacogdoches and Lufkin, TX, USA.
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- 2. **Xi, W**., David J. Mladenoff, Robert M. Scheller, Sarah Pratt, Linda R. Parker, Chris W. Swanston. Simulating the impacts of climate change, land use and mitigation strategies on forest biomass in northern Wisconsin. August 18-23, 2011. The 8th International Association for Landscape Ecology (IALE) Congress, Beijing, China.
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National (* graduate or undergraduate students I advised)

- 10. Dewez, Nicholas; **W. Xi***, Tilak Chaudhary; Duston Duffie; Sandra Rideout-Hanzak; Ambrose O. Anoruo. Predicting changes in aboveground biomass in central East Texas forests under drought and climate change. The Forest Inventory and Analysis (FIA) Science Symposium, November 21, 2024.
- 11. Dewez, N.P*, **W. Xi**, S. Rideout-Hanzak, A.O. Anoruo, D.R. Duffie, M. Subedi, T. Chaudhary, S. Clarke. 2022. The Effects of an Exceptional Drought on Tree Mortality in the National Forests of East Texas. 107th Annual Meeting of the Ecological Society of America, Montreal, CA, August 14-19, 2022.
- 12. **Xi, W.,** Mukti Subedi, Zhiping Liu and Ming Yan 2021. Widespread increase of tree mortality triggered by an exceptional drought in east Texas. August 2-6, 2021. The 106thth Annual Meeting of the Ecological Society of America, Long Beach, CA, USA.
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- 25. **Xi, W.**, Szu-Hung Chen, Andrew G. Birt, John D. Waldron, Charles W. Lafon, David M. Cairns, Maria D. Tchakerian, Kier D. Klepzig, Robert N. Coulson. Simulating the interactions of forest structure, fire regime, and plant invasion in the southern Appalachians using LANDIS. Presented at the 21th USDA Interagency Research Forum on Invasive Species. January 12-15, 2010. Annapolis, MD, USA.
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- 27. **Xi, W.**, John D. Waldron, Charles W. Lafon, David M. Cairns, Andrew G. Birt, Maria D. Tchakerian, Robert N. Coulson, Kier D. Klepzig. Modeling long-term effects of altered fire regimes following southern pine beetle outbreaks. Presented at the 24th US-IALE Annual Landscape Ecology Symposium. April 12-16 at Snowbird, UT, USA.
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- 29. Waldron, John D, W. Xi, Charles W. Lafon, David M. Cairns, Maria D. Tchakerian, Andrew G. Birt, Robert N. Coulson Kier D. Klepzig. Modeling effects of multiple disturbance interactions on long-term forest changes in the Southern Appalachian Mountains. Presented at the 104th Annual Meeting of the Association of American Geographers, April 15-19, Boston, MA. USA.
- 30. **Xi, W.**, Charles W. Lafon, David M. Cairns, John D. Waldron, Maria D. Tchakerian, Kier D. Klepzig, Robert N. Coulson. Simulating impacts of invasive plants in southern Appalachian landscapes using LANDIS. Presented at the 19th USDA Interagency Research Forum on Invasive Species. January 8-11, Annapolis, Maryland, USA.
- 31. Birt, Andrew G., Richard M. Feldmana, M.Valdez-Vivaz, Charles W. Lafon, David M. Cairns, **W. Xi**, Maria D. Tchakerian, Robert N.Coulson. A description of a weather generator (TAM-WG) for ecological modeling. Presented at the 23rd US-IALE Annual Landscape Ecology Symposium. April 6-10 at Madison, WI, USA.
- 32. Birt, Andrew G., Robert N. Coulson, Maria D. Tchakerian, **W. Xi**, Richard M. Feldman, Charles W. Lafon, David M. Cairns. Population dynamics and contagion of southern pine beetle infestations. Presented at the Annual Meeting of the Entomological Society of America. San Diego, California, USA.
- 33. **Xi, W.**, John D. Waldron, David M. Cairns, Charles W. Lafon, Robert N. Coulson, Maria D. Tchakerian, Lei Wang, Andrew G. Birt, Kier D. Klepzig. Modeling ecological restoration effects on yellow pine forests following Southern Pine Beetle infestations in the southern Appalachian Mountains. Presented at the Annual Ecological Society of America/The Society for Ecological Restoration Joint Meeting, San Jose, California, USA.
- 34. **Xi, W**., Lei Wang, Andrew G. Birt, Robert N. Coulson, Maria D. Tchakerian, David M. Cairns, Charles W. Lafon, John D. Waldron, Kier D. Klepzig. An integrated approach to map forest conditions in Southern Appalachians. Presented at the Annual Meeting of US-IALE, Tucson, Arizona, USA.
- 35. Waldron, John D., **W. Xi**, Charles W. Lafon, David M. Cairns, Maria D. Tchakerian, Robert N. Coulson, Kier D. Klepzig. Predicting impacts of hemlock woolly adelgid on forest composition in the southern Appalachian Mountains, USA. Presented at the 2007 Meeting of the Association of American Geographers, San Francisco, CA, USA.
- 36. Waldron, J., R. Coulson, D. Cairns, C. Lafon, M. Tchakerian, W. Xi, A. Birt. Evaluating the Impact of Invasive Species in Forest Landscapes: the southern pine beetle and the hemlock woolly adelgid. Presented at the conference of Advances in threat assessment and their application to forest and rangeland management, July 18-20, 2006. Boulder, CO, USA.

- 37. **Xi, W.**, Robert K. Peet, Dean L. Urban. 2003. Hurricane disturbances, tree species diversity and succession in North Carolina Piedmont forests. Presented at the 88th Annual Meeting of the Ecological Society of America. Savannah, Georgia, USA.
- 38. **Xi, W**., Robert K. Peet, Dean L. Urban. Impact of a major canopy disturbance on the long-term dynamics of North Carolina Piedmont forests. Presented at the 87th Annual Meeting of the Ecological Society of America. Tucson, Arizona, USA.

Regional

- 39. **Xi, W**., John D. Waldron, David M. Cairns, Charles W. Lafon, Robert N. Coulson, Maria D. Tchakerian, Lei Wang, Andrew G. Birt, Kier D. Klepzig. Landscape modeling for forest restoration following insect outbreaks. Presented at the 50th Southern Forest Insect Work Conference. July 23-26, 2007. Jekyll Island, GA, USA.
- 40. **Xi, W**., Robert K. Peet, Dean L. Urban. Impacts of Hurricane Fran on the structure of a North Carolina Piedmont forest. Presented at the 63rd Annual Meeting of the Association of Southern Biologists. April 2002. Boone, NC, USA.
- 41. Fay, F., J. Elissetche, E. Bennie, S. Rideout-Hanzak, D. Wester, **W. Xi.** 2024. Effects of prescribed fire on herbaceous nearest-neighbor relationships. February 2024. 60th Annual Meeting of the Texas Chapter of The Wildlife Society, Houston, TX, USA.

Local (*graduate or undergraduate students I advised)

- 42. Bhatta, Roshan* and **W. Xi.** Two decades' land cover change and potential drivers in East Texas. TAMUS Pathways Student Research Symposium, Galveston, Texas, 2023.
- 43. Jazmin Johns* and W. Xi. Geospatial Patterns of Mosquito-Borne Diseases and their Contributing Factors in Texas. TAMUS Pathways Student Research Symposium, Galveston, Texas, 2023.
- 44. Zhou, Ruiren*, Alexander Rahmlow*, **W. Xi.** Statistical estimation of tree cover and ecosystem service in Corpus Christi using i-Tree CanopyTM. Poster presented at Javelina Research Symposium, Kingsville, Texas, 2016.
- 45. Rahmlow, Alexander*, **W. Xi,** Ambrose Anoruo. An urban street tree inventory in a Gulf Coast city: Corpus Christi, Texas, Poster presented at Texas A&M University System 12th Annual Pathways Student Research Symposium, Corpus Christi, Texas, 2015 (Master's Life Science First Place; Overall Distinguished Award)
- 46. Mukti Subedi*, **W. Xi**, Chris Edgar, and Sandra Rideout-Hanzak. 2016. Evaluating extreme drought-induced tree mortality and biomass loss in east Texas using Forest Inventory and Analysis (FIA) data. Poster presented at Texas A&M University System 12th Annual Pathways Student Research Symposium, Corpus Christi, Texas, 2015.
- 47. Mukti Subedi* and W. Xi. Spatial patterns and temporal variability of drought in east Texas, USA. Javelina Research Symposium Poster, Kingsville, Texas, 2015.
- 48. Lopez, Ramon* and W. Xi. A sustainable rare and endangered plant habitat for campus sustainability. Poster presented at Javelina Research Symposium, Kingsville, Texas, 2015.
- 49. Boppana, Sadguni* and W. Xi. Health of scrub typhus diseases and its distribution in India. Poster presentation at Javelina Research Symposium, Kingsville, Texas, 2015.
- 50. Lijun Dai*, **W. Xi.** Using LANDIS-II to simulate forest dynamics under climate change in the Changbai Mountains. Poster presented at Texas A&M University System 11th Annual Pathways Student Research Symposium, November 8th, Kingsville, Texas, 2013.
- 51. Lijun Dai*, **W. Xi**, Weihong Cui. Using high resolution AIRS to assess variations of mid-troposphere CO₂ and CH₄ concentrations in China. Poster presented at the 5th Javelina Research Symposium Poster, Kingsville, Texas, 2013.

RESEARCH AND SCHOLARLY ACTIVITIES SUMMARY

- 1. Served or serves as the PI (Principal Investigator) or Co-PI of 8 research projects totaling ~\$548, 720.
- 2. Sponsors include USDA Forest Service, Hong Kong K.C. Wong Education Foundation, CITGO Petroleum Corporation, and numerous university internal competitive grants
- 3. Established collaborative research projects with 30+ domestic and international research institutions
- 4. Led multidisciplinary geo-spatial and ecological modeling initiatives involving multiple colleges, universities, agencies and partners
- 5. Research interests and activities include biogeography and biodiversity, forest landscape ecology, natural resource and ecosystem management, climate change, environmental biology, environment modeling and geospatial analysis, applied GIS, remote sensing and ecoinformatics

RESEARCH COLLABORATIONS (Selected)

Collaborated in research, publications, and proposal development with following universities and research institutes:

- 1. University of Wisconsin-Madison, USA
- 2. Texas A&M University, USA
- 3. University of North Carolina at Chapel Hill, USA
- 4. Duke University, USA
- 5. University of Virginia, USA
- 6. Lawrence Berkeley National Lab, USA
- 7. U.S. Department of Agriculture, Forest Service, USA
- 8. Texas A&M Forest Service, USA
- 9. Portland State University, USA
- 10. University of Minnesota, USA
- 11. Louisiana State University, USA
- 12. University of Missouri-Columbia, USA
- 13. U.S. Geological Survey, USA
- 14. University of Missouri-St Louis, USA
- 15. Illinois State Museum, USA
- 16. University of Minnesota, USA
- 17. Beijing University, China
- 18. Northwest A&F University, China
- 19. Beijing Forestry University, China
- 20. Southwest University, China
- 21. Capital Normal University, China
- 22. Shanxi Normal University, China
- 23. Institute of Applied Ecology, Chinese Academy of Sciences, China
- 24. Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China
- 25. Institute of Urban Environment, Chinese Academy of Sciences, China
- 26. Institute of Soil and Water Conservation, Chinese Academy of Sciences, China
- 27. Institute of Botany, Chinese Academy of Sciences, China
- 28. Canadian Forest Service, Canada
- 29. University of Quebec at Montreal, Canada
- 30. University of British Columbia Okanagan, Canada
- 31. University of Bari, Italy
- 32. Wageningen University, The Netherlands
- 33. Yale University, USA

PROFESSIONAL GROWTH AND SERVICE ACTIVITIES (Selected)

Professional Development

- 1. Certificate of Blackboard software courses by Texas A&M University-Kingsville iTech Services, 2014, 2015
- 2. Certificate of Professional Development in Instructional Technology, Texas A&M University-Kingsville, 2015
- 3. Certificate of Professional Development in Distance Education, Texas A&M University-Kingsville, 2019
- 4. Certificate of Effective Teaching Practices, Association of College and University Educators (ACUE), 2021

Professional affiliations

- 1. The Scientific Research Society (Sigma Xi), Full member
- 2. The Ecological Society of America (ESA)
- 3. The International Association for Vegetation Science (IAVS)

Leadership roles at international conferences

- 1. Co-Chair, "The International Symposium on Sustainable Forest Management in the Context of Global Change (ISSFM-CGC)", August, 2017, Harbin, China.
- 2. Symposium Co-Chair, "Forest ecosystem models as decision support systems for ecological forest management", The International Society for Ecological Modelling Global Conference, May 2016, Baltimore, MD, USA.
- 3. Symposium-Chair, the US-IALE Annual Landscape Ecology Meeting. April 2009. Snowbird, UT, USA.
- 4. Symposium-Chair, the Ecological Society of America and The Society for Ecological Restoration International Joint Annual Meeting, August 2007, San Jose, California, USA.

Editorships

1. Associate Editor-in-Chief: Chinese Agricultural Science Bulletin, 2009-2014

- 2. Associate Editor-in-Chief: Transactions of Chinese Society of Agricultural Engineering 2012-2021
- 3. Associate Editor: Journal of Forestry Research, 2009-Present
- 4. Associate Editor: The Forestry Chronicle, 2017-Present
- 5. Associate Editor: aBIOTECH, 2018-Present
- 6. Editorial Board member: International Journal of Agriculture and Biology 2008-2020
- 7. Editorial Board member: Acta Ecologica Sinica, 2010-Present
- 8. Editorial Board member: Journal of Integrative Agriculture, 2022-Present
- 9. Review Editor: Frontiers in Forests and Global Change, 2023--Present
- 10. Guest Editor: Tree and Forestry Science and Biotechnology (Global Science Books, Ltd. UK), 2010

Reviewer for the following journals

- 1. Acta Ecologica Sinica
- 2. Acta Oecologica
- 3. Annals of Forest Science
- 4. Applied Vegetation Science
- 5. Arid Land Research and Management
- 6. Biodiversity Science
- 7. Canadian Journal of Forest Research
- 8. Chinese Agricultural Science Bulletin
- 9. Chinese Journal of Plant Ecology
- 10. Community Ecology
- 11. Ecological Research
- 12. Environmental Management
- 13. Environmental Modelling & Software
- 14. Environmental Science and Pollution Research
- 15. Forest Ecology and Management
- 16. Forest Research: Open Access
- 17. Forestry Chronicle
- 18. Global Change Biology
- 19. International Journal of Agriculture and Biology
- 20. International Journal of Forestry Research
- 21. International Journal of Wildland Fire
- 22. Journal of Ecology
- 23. Journal of Environmental Management
- 24. Journal of Forestry Research
- 25. Journal of Integrative Agriculture
- 26. Journal of Mountain Science
- 27. Journal of Plant Ecology
- 28. Journal of Vegetation Science
- 29. Plant Ecology
- 30. PLOS ONE
- 31. Polish Journal of Environmental Studies
- 32. Revista Biologia Tropical
- 33. Restoration Ecology
- 34. Scandinavian Journal of Forest Research
- 35. Tree and Forestry Science and Biotechnology
- 36. Ecosphere
- 37. Ecological Process
- 38. Frontiers in Environmental Science and Conservation

Reviewer of book chapters for publisher

1. Higher Education Press, China

Proposal Development Training

1. NSF Proposal Development Training/Writing Workshop, 2016-2020

Professional societal activities

- 1. Judge, Annual South Texas Student Success Conference, Kingsville, Texas, 2014-2019
- 2. Judge, Texas A&M System Annual Pathways Student Research Symposium, Kingsville, Texas, 2014-2019

University committees

- 1. Member, President's Sustainability Task Force for Texas A&M University-Kingsville, 2013-2017
- 2. Member, Advisory Board for Texas A&M University-Kingsville Center for Teaching Effectiveness, 2014-2016
- 3. Member, Environmental Management System Committee for Texas A&M University-Kingsville, 2014-2022
- 4. Member, TAMUK-EPA Steering Committee, 2015-2022
- 5. Member, TAMUK Graduate Council, 2022-2005
- 6. Member, TAMUK Graduate Curriculum Committee, 2022-2025
- 7. Member, TAMUK Faculty Appeals Advisory Committee 2024-Present

Department committees

- 1. Chair, Department of Graduate Committee, 2017-2018
- 2. Chair, Department of Tenure and Promotion Committee, 2020
- 3. Chair, Department Faculty Search Committee, 2022, 2023, 2024
- 4. Department Graduate Coordinator 2017-2018
- 5. Member, Department Faculty Search Committee, 2014-Present (6 faculty search)
- 6. Member, Department Graduate Study Research Committee, 2014-Present
- 7. Member, Department Scholarship Committee, 2014-Present
- 8. Member, Department Curriculum Committee, 2021-Present

TAMUK Herbarium curator

- 1. Served as curator of vascular plants, reorganize the herbarium to make it accessible for future plant related student activities, faculty teaching and research. It took lots of work inputs.
- 2. Provide species data service to public and researchers.
- 3. Supervised 2 graduate and 6 undergraduate students to digitize the plant species in the herbarium.
- 4. Restored/maintained herbarium website which has been discontinued for more than 10 years. The new website is more dynamic and currently included online database of plants in Texas with varied search functions: http://plantsearch.tamuk.edu/

Volunteers

- 1. Present in the UNIV. courses, 2018
- 2. Present at University New Faculty Investment Program, 2018
- 3. Provide advice and guide to new faculty members, 2021-Present

OTHER PROFESSIONAL ACTIVITIES (Selected)

GIS training

1. Certificate of Advanced GIS Training, University of North Carolina at Chapel Hill, 2004

Software development

- 1. **Team leader** and developer for developing a widely used visualization and analytical software LANDISVIEW: A widely used visualization and analytical software to visualize and animate Geographical Information System format maps and images (C/C++ and other developing tools).
- 2. This tool has been used by over 110+ universities and government agencies from 35 countries: (https://drxilab.netlify.app/landisview)

Computing skills (Selected)

- 1. Experienced with Google Earth, GPS, and Programming languages: C/C++
- 2. Statistics packages: SAS, S-plus, R, CANOCO, PC-ORD, and SPSS
- 3. GIS and Remote Sensing software: ESRI ArcGIS, ArcInfo, ERDAS Imagine, and ENVI
- 4. Databases: Access, dBase, Foxpro, FileMakerPro, MySQL, Oracle 8i/9i
- 5. Web applications: HTML, PHP, Dreamweaver, FrontPage, and Photoshop, Data Server
- 6. Ecological models: LINKAGES, SORTIE, PnET, LANDIS-II implication and development

Language proficiency

- 1. English (Fluent)
- 2. Chinese (Fluent)