

TINGTING ZHAO

Department of Geography, Florida State University
113 Collegiate Loop, Tallahassee, FL 32306
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EDUCATION

- 2007 Ph.D. in *Natural Resources and Environment*, The University of Michigan, Ann Arbor, MI. Major advisors: Drs. Kathleen M. Bergen and Daniel G. Brown
- 2002 M.S. in *Physical Geography*, University of Wisconsin—Milwaukee, Milwaukee, WI. Major advisor: Dr. Mark D. Schwartz
- 2000 B.S. in *Natural Resources and Environmental Ecology*, Peking University, Beijing, China

PROFESSIONAL EMPLOYMENT

- 2013-present Associate Professor, Department of Geography, Florida State University
2007-2013 Assistant Professor, Department of Geography, Florida State University

RESEARCH INTEREST

GIS, cancer health disparity, urban sustainability, land change science

COURSES TAUGHT

Environmental science, Sustainable society, Landscape ecology, Introductory GIS, Environmental change modeling, GIS programming, Introductory GIS (online), GIS applications for Florida (online)

PUBLICATIONS

Refereed Journal Articles

- Li, Y., Steppi, A., Zhou, Y.D., Mao, F., Miller, P.C., He, M.M., Zhao, T., Sun, Q., Zhang, J. (2017) Tumoral expression of drug and xenobiotic metabolizing enzymes in breast cancer patients of different ethnicities with implications to personalized medicine. *Scientific Reports*, volume 7, article number 4747. DOI: 10.1038/s41598-017-04250-2
- Chanton, J., Zhao, T., Rosenheim, B. E., Joye, S., Bosman, S., Brunner, C., Yeager, K. M., Diercks, A. R., & Hollander, D. (2015). Using natural abundance radiocarbon to trace the flux of petrocarbon to the seafloor following the Deepwater Horizon oil spill. *Environmental Science & Technology*, 49(2), 847-854.
- Zhao, T., Bell, L., Horner, M. W., Sulik, J., & Zhang, J. (2012). Consumer responses towards home energy financial incentives: A survey-based study. *Energy Policy*, 47, 291-297.
- Zhao, T., Brown, D. G., Fang, H., Theobald, D., Liu, T., & Zhang, T. (2012). Vegetation productivity consequences of human settlement growth in the Eastern United States. *Landscape Ecology*, 27(8), 1149-1165.

Horner, M. W., Zhao, T., & Chapin, T. S. (2011). Toward an integrated GIScience and energy research agenda. *Annals of the Association of American Geographers*, 101(4), 764-774.

Zhao, T., Horner, M. W., & Sulik, J. (2011). A geographic approach to sectoral carbon inventory: examining the balance between consumption-based emissions and land-use carbon sequestration in Florida. *Annals of the Association of American Geographers*, 101(4), 752-763.

Qi, S., Brown, D. G., Tian, Q., Jiang, L., Zhao, T., & Bergen, K. M. (2009). Inundation extent and flood frequency mapping using Landsat imagery and digital elevation models. *GIScience and Remote Sensing*, 46(1), 101-127.

Zhao, T., Bergen, K. M., Brown, D. G., & Shugart, H. H. (2009). Scale dependence in quantification of land-cover and biomass change over Siberian boreal forest landscapes. *Landscape Ecology*, 24(10), 1299-1313.

Bergen, K. M., Zhao, T., Kharuk, V., Blam, Y., Brown, D. G., Peterson, L. K., & Miller, N. (2008). Changing regimes: Forested land cover dynamics in Central Siberia 1974 to 2001. *Photogrammetric Engineering & Remote Sensing*, 74(6), 787-798.

Jiang, L., Bergen, K. M., Brown, D. G., Zhao, T., Tian, Q., & Qi, S. (2008). Land-cover change and vulnerability to flooding near Poyang Lake, Jiangxi Province, China. *Photogrammetric Engineering & Remote Sensing*, 74(6), 775-786.

Zhao, T., Brown, D. G., & Bergen, K. M. (2007). Increasing gross primary production (GPP) in the urbanizing landscapes of Southeastern Michigan. *Photogrammetric Engineering & Remote Sensing*, 73(10), 1159-1167.

Zhao, T., & Schwartz, M. D. (2003). Examining the onset of spring in Wisconsin. *Climate Research*, 24, 59-70.

Refereed Book Chapters

Bergen, K. M., Hitztaler, S. K., Kharuk, V. I., Krankina, O. N., Loboda, T. V., Zhao, T., Shugart, H. H., & Sun, G. (2012). Human Dimensions of Environmental Change in Siberia. In GROISMAN, P. Y., & GUTMAN, G. (Eds.), *Regional Environmental Changes in Siberia and Their Global Consequences* (pp. 123-138). Springer.

Zhao, T. (2011). Sprawl and its carbon consequences in two U.S. Consolidated Metropolitan Statistical Areas. In Jianguo Wu, & Fengmin Li (Eds.), *Lectures in Modern Ecology (V): Large-Scale Ecology and Sustainability Science* (pp. 36-58). Beijing, China: Higher Education Press.

Zhao, T. (2011). Impacts of urban growth on vegetation carbon sequestration. In Xiaojun Yang (Ed.), *Urban Remote Sensing: Monitoring, Synthesis and Modeling in the Urban Environment* (pp. 275-286). Wiley.

Refereed Encyclopedia Entries

Zhao, T. (2010). Landscape ecology. In Barney Warf (Ed.), *Encyclopedia of Geography*. Thousand Oaks, CA: Sage Publications.

Refereed Proceedings

Zhao, T., Brown, D. G., Bergen, K. M., & Powers, A. C. (2005). Landscape and productivity changes in Southeastern Michigan, USA. In *the 9th International Symposium on Physical Measurements and Signatures in Remote Sensing (ISPMSRS)*. Beijing, China.

GRANTS

Baker, E. J., & Zhao, T. (2010–2014). Effect of Perceived Vulnerability on Response to Hurricane Threats. Funded by Florida Catastrophic Storm Risk Management Center, FSU College of Business. Total award \$60,000.

Zhao, T. (2009–2009). PRIZM Data for Residential Energy Consumption Behavior Research. Funded by FSU Faculty Research Library Materials Grant. Total award \$8,420.

Zhao, T., & Horner, M. W. (2009–2011). Reducing Residential Carbon Emission in Florida: Optional Scenarios Based on Energy Consumption, Transportation, and Land Use. Funded by FSU Institute for Energy Systems, Economics and Sustainability. Total award \$66,032.

Zhao, T. (May 2008–Aug 2008). Sprawling and its Impacts on Carbon Sequestration in the U.S. Suburbs and Exurbs. Funded by FSU CRC-FYAP Program. Total award \$16,000.

PRESENTATIONS

Zhao, T. & Zhang, J. Health disparities in breast cancer: Socioeconomics and lifestyle drivers for Asian and Hispanic Americans. Presentation at 2017 AAG Annual Meeting, The Association of American Geographers, Boston, MA. (International)

Zhao, T., Sadusky, H., & Swiman. What prevent college student's pro-environmental practices? Presentation at 2015 AAG Annual Meeting, The Association of American Geographers, Chicago, IL. (International)

Zhao, T. (presented 2014, April). Household Electricity Consumption and Conservation Behavior. Presentation at 2014 AAG Annual Meeting, The Association of American Geographers, Tampa, FL. (International)

Zhao, T. (presented 2013, April). Energy Conservation Efficacy: Efficiency or Curtailment? Presentation at 2013 AAG Annual Meeting, The Association of American Geographers, Los Angeles, LA. (International)

Zhao, T. (presented 2012, February). Financial Incentives and Home Energy Efficiency. Presentation at 2012 AAG Annual Meeting, The Association of American Geographers, New York, NY. (International)

Baker, E. J., & Zhao, T. (presented 2011, April). Perceived vs. Actual Elevation in Florida. Presentation at National Hurricane Conference, Lee County Public Safety, Fort Myers, FL, Atlanta, GA. (National)

Zhao, T. (presented 2010, November). How does land-use regulation influence vegetation primary production? Presentation at ICA Workshop on Advances in Sensors and Algorithms for Topographic and Thematic Mapping, International Cartographic Association, Orlando, FL. (International)

Horner, M. W., Zhao, T., & Chapin, T. C. (presented 2010, April). Exploring Research Opportunities for GIScience and Energy Sustainability. Presentation at 2010 AAG Annual Meeting, The Association of American Geographers, Washington D.C. (International)

Rios, F., Ye, M., Lee, P., Fernandes, R., & Zhao, T. (presented 2010, April). Developing an ArcGIS Extension for Estimating Nitrate Fate and Transport. Presentation at The 2010 SERUG Conference, ESRI Southeast Regional User Group, Charlotte, NC. (Regional)

Zhao, T., Horner, M. W., & Sulik, J. (presented 2010, April). Carbon Impacts of Residential Development Patterns. Presentation at 2010 AAG Annual Meeting, The Association of American Geographers, Washington D.C. (International)

Zhao, T., Brown, D. G., Fang, H., Liu, T., & Zhang, T. (presented 2009, December). Vegetation Productivity Consequences of Sprawl in the Eastern United States. Presentation at 2009 AGU Fall Meeting, American Geophysical Union, San Francisco, CA. (International)

Zhao, T. (presented 2009, June). Sprawl and Its Carbon Consequences in Two U.S. Metropolitan Areas. In The 5th International Symposium on Modern Ecology. Presentation at the meeting of Lanzhou University, Lanzhou, China. (International)

Zhao, T., & Horner, M. (presented 2009, March). Accounting for Carbon Emission in Florida: Estimation Based on Land Use and Residential Energy/Fuel Consumption. Presentation at 2009 AAG Annual Meeting, The Association of American Geographers, Las Vegas, NV. (International)

Zhao, T., Brown, D. G., & Zhang, T. (presented 2008, April). Impacts of Sprawling on Primary Production in the Conterminous United States. Presentation at 2008 AAG Annual Meeting, The Association of American Geographers, Boston, MA. (International)

Bergen, K. M., Brown, D. G., Zhao, T., Tian, Q., & Bao, S. (presented 2007, August). Changing Responses of Land Dynamics and Vulnerability to Flooding under Policy and Environmental Change, Poyang Lake China. Presentation at NASA Carbon and Ecosystems Workshop, University of Maryland, College Park, MD. (National)

Zhao, T., Brown, D. G., & Bergen, K. M. (presented 2007, April). Effects of Urban Sprawl on Gross Primary Production (GPP): Sensitivity of Estimation to Land-Cover Data Quality. Presentation at 2007 Annual Meeting, The Association of American Geographers, San Francisco, CA. (International)

JOURNAL MANUSCRIPT REVIEWER

International Journal of Environmental Research and Public Health; Energy Policy; Applied Geography; Geographical Review; Computers, Environment and Urban Systems; Remote Sensing of Environment; International Journal of Remote Sensing; Photogrammetric Engineering & Remote Sensing; Sensors; Journal of Maps; Landscape and Urban Planning; Environmental Management; Forest Ecology and Management; Forests; International Journal of Sustainable Transportation; Growth and Change

UNIVERSITY SERVICE

Florida State University Faculty Senator (2017-)
Florida State University Undergraduate Policy Committee (2016-present)
Florida State University Liberal Studies Course Review Panel (2016-present)
Department of Geography Graduate Committee Chair (Spring 2015)
Florida State University Faculty Senator Alternate (2014-2015)
College of Social Sciences and Public Policy P & T Committee (2014-2015)
Program in Interdisciplinary Computing (PIC) Steering Committee (2013-2016)
Department of Geography Graduate Committee (2012-2014)
College of Social Sciences Policy and Academic Affairs Committee (2010-2014)
Greeks Going Green faculty advisor (2008-present)
Department of Geography Colloquium coordinator (2008-2009)

COMMUNITY SERVICE

Leon County Schools District Advisory Council (2016-present)
Hawks Rise Elementary School Advisory Council (2016-present)
Hawks Rise Mentor (2016-present)
Chinese Association of Tallahassee Board (2016-2017)
Florida Department of Environmental Protection Wetland Modeling Project Advisory Committee (2013-2014)

PROFESSIONAL MEMBERSHIPS

Association of American Geographers (AAG)
- Specialty groups: Geographic Information Science and Systems, health and medical geography, spatial analysis & modeling, Cyberinfrastructure