

Ye Tian

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Research Interests

GIScience, geospatial modeling, air pollution, and environmental justice. I applied machine learning, urban morphology theory, air quality modeling, and geovisualization techniques to understand the human-environment interaction systems, such as human mobility patterns, and spatiotemporal disparities of individual exposure to air pollutants.

Education

PhD	GIS	University of Georgia	2017-Present
MS	Cartography and GIS	University of Chinese Academy of Science	2017
BS	GIS	Northwest A&F University	2014

Peer-reviewed Publications

1. **Ye Tian***, Priyanka deSouza, Simone Mora, Xiaobai Yao, Fabio Duarte, Carlo Ratti. (2021). “Characterizing synergic effects of meteorological factors on the urban form-air quality relationship through mobile monitoring”. *Environmental Science & Technology* (Under Review)
2. **Ye Tian**, Xiaobai Yao*, Marguerite Madden. (2021). “Characterizing spatiotemporal pattern of outdoor-exercise exposure to air pollution and the relationships with wind-related urban form factors”. *Urban Studies* (Under Review)
3. **Ye Tian***, Xiaobai Yao. (2021). “Urban Form, Traffic Volume, and Air Quality: A Spatiotemporal Stratified Approach”. *Environment and Planning B: Urban Analytics and City Science* DOI: 10.1177/2399808321995822
4. **Ye Tian**, Xiaobai Yao*, Lan Mu, Qinjin Fan, Yijun Liu (2020). “Integrating meteorological factors for better understanding of the urban form-air quality relationship”. *Landscape Ecology*. DOI: 10.1007/s10980-020-01094-6
5. **Ye Tian**, Xiaobai Yao*, Liding Chen. (2019). “Analysis of Spatial and Seasonal Distributions of Air Pollutants by Incorporating Urban Morphological Characteristics”. *Computers, Environment and Urban Systems*. DOI: 10.1016/j.compenvurbsys.2019.01.003
6. Shixin Wang, **Ye Tian***, Yi Zhou, Wenliang Liu, Chenxi Lin. (2017). “Building height extraction from multi-polarization SAR imagery based on backscattering model”, *Remote Sensing for Land and Resources*. DOI: 10.6046/gtzyyg.2017.02.06
7. Shixin Wang, **Ye Tian***, Yi Zhou, Wenliang Liu, Chenxi Lin. (2016). “Fine-Scale Population

Estimation by 3D Reconstruction of Urban Residential Buildings”, *Sensors*, DOI: 10.3390/s16101755.

8. **Ye Tian***, Shixin Wang, Yi Zhou, Wenliang Liu, Chenxi Lin. (2016). “Urban building height estimation from Radarsat-2 imagery, a case study in Beijing, China”, *Geoscience and Remote Sensing Symposium, 2016 IEEE International*, pp.1066-1069. DOI: 10.1109/IGARSS.2016.7729270

9. Chenxi Lin*, Yi Zhou, Shixin Wang, Wenliang Liu, **Ye Tian**, Yannan Zhang. (2016). “Variogram-based rural build-up area extraction from middle and high resolution SAR images”, *Journal of image and Graphics*. DOI: 10.11834/jig.20160515

10. Yi Zhou, Chenxi Lin*, Shixin Wang, Wenliang Liu, **Ye Tian**. (2016). “Estimation of building density with the integrated use of GF-1 PMS and Radarsat-2 data”, *Remote Sensing*. DOI: 10.3390/rs8110969

Professional Experiences

<i>Affiliated Researcher</i>	2021-present
Senseable City Lab, Massachusetts Institute of Technology	
<i>Research Assistant</i>	2020-present
The Graduate School, University of Georgia	
<i>Research Assistant</i>	2019 summer
US Army Corps of Engineers, US EPA, and other state agencies	
<i>Teaching Assistant</i>	2018-2020
Department of Geography, University of Georgia	
<i>Research Assistant</i>	2017-2018
The Graduate School, University of Georgia	
<i>Research Assistant</i>	2015-2017
Institute of Remote Sensing and Digital Earth, Chinese Academy of Science	
<i>Research Assistant</i>	2013-2014
Ministry of Educational of the People’s Republic of China	

Awards and Honors

<i>Dissertation Completion Award</i> , University of Georgia (\$21,840)	2021
<i>Graduate Education Advancement Board Fellowship</i> , University of Georgia (\$2500)	2021
<i>Summer Doctoral Research Assistantship</i> , University of Georgia (\$3,500)	2020
<i>Innovative and Interdisciplinary Research Grant</i> , University of Georgia (\$2,000)	2020
Remote Sensing Specialty Group student paper competition (2nd place), AAG (\$300)	2019
<i>Graduate School Research Assistantship Block Grants</i> , University of Georgia (\$22,866)	2017
<i>Merit Graduate</i> , University of Chinese Academy of Sciences	2015
<i>National Scholarship</i> , Ministry of Educational of P.R. China (Top 1%) (¥8,000)	2013
<i>Social Elite Scholarship</i> , Shanghai Baosteel Group Corporation (Top 3%) (¥5,000)	2012
<i>Best Debater in Debate Competition</i> , Northwest A&F University	2011

<i>National Scholarship</i> , Ministry of Educational of P.R. China (Top 1%) (¥8,000)	2011
<i>The First Prize Academic Scholarship</i> , Northwest A&F University (Top 5%) (¥2,000)	2011

Teaching Courses

GIScience for Health and the Environment	Spring 2020
Air Photo Image Interpretation	Fall 2019
Introduction to GIS	Spring 2019
Air Photo Image Interpretation	Fall 2018
Introduction to GIS	Summer 2018

Conference Presentations

American Association of Geography (AAG) (Online)	2021
University Consortium for Geographic Information Science (UCGIS) (Online)	2021
American Association of Geography (AAG), Washington, D.C, U.S.	2019
American Geophysical Union (AGU), San Francisco, CA U.S.	2019
Urban Environmental Sustainability in a Smart and Connected World, GA U.S.	2018
American Association of Geography (AAG), New Orleans, U.S.	2018
Interactive Research & Ideas Symposium, Athens, Georgia, U.S.	2018
IEEE International Geoscience and Remote Sensing Symposium, Beijing, China	2016
The 20th Conference on Remote Sensing of China, Shenzhen, China,	2016

Professional Services

Session chair of GIS DAY at the University of Georgia, Athens, Georgia, U.S.	2018
IEEE International Geoscience and Remote Sensing Symposium, Beijing, China	2016
International Symposium on Earth Observation for One Belt and One Road, Beijing, China	2016
The 2 nd Pan-Eurasian Experiment (PEEX) Science Conference, China	2016

Field Experiences

Investigating land use change and population immigration, Hebei, China	2016
Analyzing accuracy of population distribution, Beijing, China	2015
Assessing human habitat suitability, Sichuan and Jiangsu, China	2015
Validating different land use types, Shaanxi, China	2013-2014

Personal Skills

Language: Python, MATLAB, R
 Software: ArcGIS, Trans CAD, Anaconda, ERDAS Imagine, ENVI, eCognition;
 Certificate: National Computer Rank Examination (NCRE) Rank III: C;
 Personality: Goal-oriented, team-spirited, responsible and self-motivated