

Teng Zhang

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Profile

I am seeking a position to exercise my passion for advancing knowledge and transforming lives on vital social topics utilizing my advanced geospatial analytics abilities.

Years of diverse experience teaching geography in both in-person and online contexts; dedicated interdisciplinary research on a wide range of pressing global South topics; Rated as 'Excellent' constantly as an MSU onGEO instructor; Awarded by multiple research scholarships including Kussy Scholarship for Study of Genocide and S.C. Lee Best Paper Competitions; Skilled in ArcGIS, R, and Python-based data analysis.

Education

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| <i>Spring 2023
(expected)
Michigan
State Univ.
East Lansing,
MI</i> | <i>PhD in Geography</i>
Area of specialization: spatial analysis of human rights records, and urban analysis of transitioning countries
Advisors: Prof. Siddharth Chandra and Prof. Ashton Shortridge
Major Courses: Spatial Data Analysis (R, QGIS, ArcGIS), Methods of Computational Modeling (Python), Geosimulation (Agent-based Model in Python)
Dissertation:
<i>Unsafe Space: Spatial Analysis of Indonesian Genocide in Java</i>
<i>Integrating digitalized local knowledge with large-scale post-WWII maps, this dissertation applies innovative spatial analysis tools, including Bayesian spatial regression and spatial simulation, to the quantitative study of human rights records.</i> |
| <i>July 2013
Peking Univ.
Beijing, China</i> | <i>Master of Science in Economic Geography</i>
<i>Thesis: Environment Effect of the Industrial Geography Transformation in China</i>
<i>Major Courses: GIS, Remote Sensing</i> |
| <i>July 2010
Renmin Univ.
Beijing, China</i> | <i>Bachelor of Management in Environment Economics</i>
<i>Major Courses: Econometrics, Statistics</i> |

Key Skills

*ESRI ArcGIS/QGIS, R & Python based Data Analysis,
UCINET, SQL, Google Earth Engine, multi-threaded web-crawler
Photoshop, Mandarin (native tongue)*

Selected Teaching Experience

<i>Undergraduate Courses</i>	<i>Instructor of Intermediate GIS</i> <ul style="list-style-type: none">• Cartography, geodesy basics• Raster data models and analysis• Vector data models and analysis <i>Instructor of World Regional Geography (online) and Physical Geography (online), Geography of the US and Canada (online)</i> <i>Teaching Assistant of Problems in Geographic Information Science, People and Environment,</i>
<i>Graduate Courses</i>	<i>Teaching Assistant of Spatial Data Analysis, Geospatial Technology</i>
<i>Online Certificate Courses</i>	<i>Instructor of Introduction of Cartography, Instructor of Criminal Justice Applications in GIS, Instructor of Geographic Information System</i>

Selected Research and Professional Experience

<i>August 2016 – Present</i>	<i>Instructor / Teaching Assistant / Research Assistant</i> <i>Michigan State University, East Lansing, Michigan</i> <ul style="list-style-type: none">• performed R/Python-based spatial and network analysis of socio-economic data in Indonesia, converted the results to audience friendly report with innovative data illustration techniques• collected housing (AHS) and cuisine data with web-crawler techniques from government and business websites• converted audio records of English and Mandarin to qualitative compiles, and summarized the compiles with quantitative text analysis techniques
<i>March 2014 – 2016</i>	<i>Senior Analyst in Office/Warehouse Market Research Sector,</i> <i>Jones Lang LaSalle, Guangzhou, China</i> <ul style="list-style-type: none">• Held market trend talks about dynamics of housing market for front desk colleagues and clients; Gave training to new colleague in data analysis, communication and market research skills• Converted desktop and field study findings about residential, commercial and logistics properties market dynamics to intelligence service and market research reports• Integrated macroeconomic conditions, real estate companies' financials, urban policies implementations into consultancy projects about benchmarking and exit strategy

Peer-reviewed Articles and Work in Process

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| Human rights record and geography: | <ul style="list-style-type: none"> • <u>Zhang, T.</u>, An Act of Killing? Re-examining the Roles of the Persecutors in the Indonesian Communist Purge with Evidence from Disaggregated Geographic Analysis (will be submitted soon) • Chandra, S., <u>Zhang, T.</u>, Glimpses of Indonesia's 1965 Massacre through the Lens of the Census: The Role of Civilian Organizations in the Mass Anti-Communist Killings of 1965-66 in East Java (submitted to <i>Indonesia</i>, <i>accepted</i>) |
| Environment, policy, and geography: | <ul style="list-style-type: none"> • He, Canfei., <u>Zhang, T.</u> and Wang, Rui., 2012. Air quality in urban China. <i>Eurasian Geography and Economics</i>, 53(6), pp.750-771. • Liu, Che., Zheng, Chengyang., <u>Zhang, T.</u>, Relation of Bird Species Geography and Environmental Factors, <i>Acta Universitatis Pekinensis</i>, 2014, 3 (in Chinese: 中国鸟类物种丰富度的地理格局及其与环境因子的关系, <i>北京大学学报</i>, 2014, 3) • He, Canfei., Zhou, Yi., <u>Zhang, T.</u>, Industrial Transfer and its Environmental Effects in China, <i>Study of Urban and Environment</i>, 2014, 1(1), 41-55 (in Chinese: 中国产业转移及其环境效应, <i>城市与环境研究</i>, 2014, 1(1), 41-55) • Ma, J., <u>Zhang, T.</u>, Chen, Z.Y., Immigration for Environment Protection: Case in Dongxiang Gansu, <i>Journal of Gansu Normal Colleges</i>, 2010, 2 (生态脆弱地区移民情况及问题浅析·以甘肃省临夏回族自治州东乡族自治县为例, <i>甘肃高师学报</i>, 2010, 10) |
| Urban and economic geography: | <ul style="list-style-type: none"> • Zhang, M., <u>Zhang, T.</u>, Xiao, Z. and Chai, Y., Property rights redistribution and the spatial evolution of the Chinese danwei compound: a case study in Beijing. <i>Journal of Housing and the Built Environment</i>, pp.1-18. • <u>Zhang, T.</u>, Luan, X. F., The Changing Urban Structure of Beijing in the Booming Years 2000 – 2020 (<i>work in process</i>) • He, Canfei., <u>Zhang, T.</u>, Environmental Regulation and its Effect on Air Pollution in China, <i>Journal of Natural Resources</i>, 2013, 28(10), 1651-1663 (环境规制效果与城市空气质量, <i>自然资源学报</i>, 2013, 28 (10), 1651-1663) |

Selected Conferences and Invited Talks

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| Jun. 2022 | • "A spatial analysis of the local community in East Java in Indonesian Genocide of 1965-1966", <i>AIFIS-MSU 2022 Conference on Indonesian Studies</i> , East Lansing, MI |
| Feb. 2022 | • "The Role of Military Units in the Mass Killings of 1965-66 in East Java, Indonesia: Spatial Analysis" (Co-author), <i>AAG 2022 Annual Meeting</i> , virtual |
| Jun. 2021 | • "Willing to Kill or Ordered to Kill: Re-examining the Roles of Persecutors with Evidence From Disaggregated Geographic Analysis", <i>AIFIS-MSU 2021 Conference on Indonesian Studies</i> , East Lansing, MI |
| Oct. 2020 | • "Military and Civilian Involvement in the Killings of 1965-66 in East Java: A Spatial Approach", <i>69th Midwest Conference on Asian Affairs (MCAA 2020)</i> , East Lansing, MI |
| Apr. 2019 | • "The Very Inexpensively Built 'Big Beautiful' Wall inside Chinese Post-socialist Neighborhoods", <i>AAG 2019 Annual Meeting</i> , Washington, D.C. |
| Apr. 2018 | • "Moving slums in China: Documentary and Discussion", <i>AAG 2018 Annual Meeting</i> , New Orleans, LA |
| Oct. 2017 | • "Geography of Cuisines in Beijing----- description and potential risks", <i>ESPP Fall</i> |

Research Symposium 2017, East Lansing, MI

- Nov. 2015 • "Spatial Evolution in Huagong Da'yuan Danwei Compound", *The 3rd Int. Conf. on Social Policy & Governance Innovation*, Guangzhou, China
- Jan. 2013 • "Air Pollution and Implementation of Environmental Regulation in Chinese Cities (Poster)", *Youth Forum of China Environment Protection 40 Years Forum*, Hong Kong
- Dec. 2012 • "A Chronicles of Stoves in Rural Gansu", *Shell Co. Graduates Rural Area Stove Symposium*, Beijing, China
- Jun. 2012 • "Distance and Growth of Urban GDP in North China (Poster)", *7th Sino-Korea-Japan Joint Conference on Geography*, Changchun, China

Selected Fellowships and Awards

- 2022 Kussy Scholarship for Study of Genocide
- 2022 S.C. Lee Best Paper Competitions – 3rd Place
- 2019 Dr. Delia Koo Global Student Scholarship
- 2019 AAG Annual Meeting Graduate Poster Competition Award (Eurasian Environments poster session)
- 2017 MSU ESPP Research Symposium Network Fellowship
- 2017 National Committee on US-China Relations Travel Fund for US Foreign Policy Colloquium
- 2012 UNEP-ISED Beijing Green Future Environment Foundation Lyumiao Fellowship
- 2012 Hong Kong Jockey Club Travel Fund for Youth Forum of China Environment Protection
- 2012 Shell Co. Graduates Rural Energy Saving Investigation Scholarship
- 2007 National Undergraduate Innovative Experimental Program (China) -Renmin Univ. Fellowship

Hobbies

Travelling, Sailing, Erhu, and Taekwondo

References

Ashton Shortridge
Professor
Michigan State University
Department of Geography,
Environment, and Spatial Science
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Siddharth Chandra
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Michigan State University
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Kyle Evered
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Michigan State University
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Environment, and Spatial Science
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Ronen Steinberg
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Michigan State University
Department of History
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