

Guixing Wei

Brown University
Spatial Structures in the Social Sciences
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EDUCATION

Ph.D., 2018 Texas State University, San Marcos, TX, USA (Advisor: F. Benjamin Zhan)
M.S., 2014 Nanjing Normal University, Nanjing, Jiangsu, China
B.S., 2011 Southwest University, Chongqing, China

PROFESSIONAL APPOINTMENTS

2018 -	Senior GIS and Spatial Analyst	S4, Brown University
2017 -	Vice President & Co-founder	AtmoVision
2017 - 2018	Instructor of Record	Texas State University
2015 - 2018	GIS Consultant	Texas State University
2014 - 2017	Research & Teaching Assistant	Texas State University
2011 - 2014	Research Assistant	Nanjing Normal University (China)
2012 - 2013	Software Engineer Intern	State Grid Electric Power Research Institute (China)

PUBLICATION

1. Refereed Journal Articles

Yuan, Y., Liu, Y & **Wei, G.** (2017) Exploring inter-country connection in mass media: A case study of China. *Computers, Environment and Urban Systems*, 62, 86-96.

Yuan, Y., **Wei, G.** (2018) Evaluating gender representativeness of location-based social media: A case study of Weibo. *Annals of GIS* (DOI:10.1080/19475683.2018.1471518)

2. Manuscript in Submission

3. Manuscript in Preparation

Wei, G., Zhan, F.B. (2019) A trajectory-based microenvironment personal exposure assessment framework

Wei, G., Zhan, F.B. (2019) Variability Associated with Personal Environmental Exposure Assessment in Geographic Space and Time.

Wei, G., Zhan, F.B. (2019) Spatiotemporal Variability of Personal Exposure to Traffic Emission

Wei, G., Zhan, F.B. (2019) Application of Global Positioning System in Air Pollution Exposure Assessment Study: A Systematic Review

4. Conference proceedings

Yuan, Y., **Wei, G.**, Chow, T. K. E., & Hagelman, R. R. (2017). Investigating social media landscapes from Twitter: A case study of Austin, Texas. *Geoinformatics*.

Yuan, Y., **Wei, G.** 2016. Evaluating demographic representativeness of location-based social media: a case study of Weibo. In: the 19th AGILE Conference on Geographic Information Science, 1-4

GRANT

Mill, D., **Wei, G.** (2018) Bobcat Clean Air Project, Environmental Services Committee (ESC), Texas State University, \$4,822.75

WORK IN PROGRESS

Qian, Z., **Wei, G.** How the matting patterns change over years (1981-2018)? Insights from the wedding announcements of New York Times

Wei, G., Qian, Z. The understanding of matting patterns in a geographic perspective

Mwenda, K., **Wei, G.**, Assessing the indicators of chronic child undernutrition using machine learning techniques

White, M., Mwenda, K., **Wei, G.** Spatial unevenness and inequality between and within urban and rural territory in Kenya.

COURSES TAUGHT

Fundamentals of GIS FALL 2017 – SPRING 2018. This course is an introduction to Geographic Information Systems (GIS). The foundations and theory of GIS are emphasized in this course. Department of Geography, Texas State University.

- Instructor of Record

Web Mapping FALL 2016. This course introduces the theory and practice of mapping to students. The web programming techniques along with map services API are taught to build up a modern interactive web mapping application. Department of Geography, Texas State University.

- Course Developer
- Teaching Assistant

Geographic Information System II SPRING 2016. This course introduces the basics of Python programming and ArcPy to automate geoprocessing procedure. Department of Geography, Texas State University.

- Course Developer
- Teaching Assistant

Geographic Information System I FALL 2015. This course is concerned with spatial data manipulation, spatial modeling, and spatial analysis. Department of Geography, Texas State University.

- Teaching Assistant

FELLOWSHIP, HONORS, AND AWARDS

- 2018 Student Organization for Geographic Information Science Achievement in GIS Award, Texas State University
- 2018 Wiley Outstanding Graduate Student in Geography, Texas State University
- 2018 Outstanding Doctoral Student in the College of Liberal Arts, Texas State University
- 2017 Student Government Scholarship Award, Texas State University
- 2017 Graduate College Scholarships, Texas State University
- 2017 Graduate Student Travel Fund, Texas State University
- 2017 Travel Fund from NSF Workshops on Advancing Movement and Mobility Science
- 2016 Nominee, Outstanding Doctoral Student, College of Liberal Arts, Texas State University
- 2016 Registration Fee Grant Awardees of the 33rd International Geographical Congress
- 2016 3-MT Thesis Competition, Department of Geography
- 2016 Student Government Scholarship Award, Texas State University
- 2016 Graduate College Scholarships, Texas State University
- 2016 Sandra E. Estaville Dissertation Research Scholarship, Texas State University
- 2016 Graduate Student Travel Fund, Texas State University
- 2012 The Third Prize in National Postgraduate Mathematical Contest in Modeling (NPMCM), China
- 2011 Outstanding University Graduates Award, Southwest University, China
- 2010 The Second Prize Undergraduate Scholarship Southwest University, China

CONFERENCE PRESENTATION AND ABSTRACTS

Zhan, F. B., Gong X., **Wei, G.**, Morshed, N., 2019 Spatial Data Science and Health Research, *Annual Meeting of Association of American Geographers*, DC, Washington, April 3 – April 7, 2019

Mwenda, K., **Wei, G.**, 2019 Assessing the indicators of chronic child undernutrition using machine learning techniques, *Annual meeting of Population Association of America*, Austin, Texas, April 10- April 13, 2019

Wei, G., Zhan, F.B. 2018 Spatiotemporal Variability of Personal Exposure to Traffic Emission while Human Dynamics is Considered, *Annual Meeting of Association of American Geographers*, New Orleans, Louisiana, April 10 - April 14, 2018

Yuan, Y., **Wei, G.,** Chow, T, Hagelman, R. 2017 Investigating Social Media Landscapes from Twitter: A Case Study of Austin, Texas. *The 25th International Conference on Geoinformatics*, Buffalo, NY, Aug.2-Aug.4, 2017

Wei, G. Zhan, F.B. 2017 A Microenvironmental Exposure Assessment Framework based on the Dynamics of Human Activities in Geographic Space and time. *NSF Mobility Workshop*, Columbus, Ohio, May. 11- May. 12, 2017

Yuan, Y., **Wei, G.** 2017 Evaluating Demographic Representativeness of Location-based Social Media: A Case Study of Weibo. *Annual Meeting of Association of American Geographers*, Boston, MA, April 4 - April 9, 2017

Wei, G., Zhan, FB. 2017 Exploration of variability and uncertainty of personal exposure assessment in geographic space and time. *Annual Meeting of Association of American Geographers*, Boston, MA, April 4 - April 9, 2017

Wei, G., Zhan, FB. 2016 A multi-phase environmental exposure assessment framework based on the dynamics of human activities in geographic space. *Annual Meeting of Association of American Geographers*, San Francisco, CA, March 29 - April 2, 2016

INVITED TALKS

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| 2019/02/27 | The understanding of matting patterns in a geographic perspective (Wuhan University, China) |
| 2018/02/07 | How to do a cost-benefit analysis in developing a project proposal (Texas State University) |
| 2016/06/20 | How time-activity pattern affects your health? (Southwest University, China) |

SERVICE ACTIVITIES

Membership in Professional Organizations

Association of American Geographers (AAG)
Society for Geographic Information Science (SOGIS)
American Public Health Association (APHA)

Reviewer

ISPRS International Journal of Geo-Information
CEUS Computers, Environment and Urban System
Transactions in GIS

Volunteer

Driver, Health&GIS Conference (Texas, May 2018)

Volunteer, 22nd annual Alumni Reunion & Student Celebration, Department of geography, Texas State University