

Wenzheng Li

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Cornell University
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Education:

- 2019-2024 **Cornell University**, Ph.D. in City and Regional Planning (Expected June)
Dissertation: Polycentric Regional Development: Measures, Explanations, and Performance
Dissertation Committee: Stephan Schmidt, Department of City and Regional Planning
John I. Carruthers, Field of Regional Science
Shanjun Li, Dyson School of Applied Economics and Management
- 2016-2018 **Cornell University**, Master of Regional Planning (MRP)
- 2012-2016 **China University of Geosciences**, Bachelor of Science in Remote Sensing

Academic positions:

- Spring 2024 **Teaching Assistant (TA)**, CRP 1200 Introduction to Statistics for Urban Studies
- Fall 2022 **TA**, CRP 4080 Introduction to GIS (Course evaluation: 4.5/5)
- Spring 2022 **Co-lecturer and TA**, CRP5680/4680 Urban Spatial Data Analytics (Course evaluation: 4.5/5)
- Fall 2021 **TA**, CRP 5080 Introduction to GIS for Planners (Course evaluation: 4.9/5)
- Spring 2021 **Co-lecturer and TA**, CRP 6290 Advanced topics in GIS (Course evaluation: 4.4/5)
- Summer 2020 **TA**, Big Data & Business Analytics, Cornell Institute for China Economic Research (CICER)
- Fall 2017 Graduate Teaching and Research Specialist (GTRS)

Fields of Interest:

Topics: climate adoption and resilience, sustainable development, Land use planning, regional planning, policy, and governance, regional science, urban and environmental economics, housing; shared-use mobility; mobility-as-a-service (MaaS)

Methods: urban data science, statistics, applied econometrics, machine learning, GIS, Remote Sensing

Study areas: Europe, United States, Africa, China

Refereed journal articles:

Li, **Wenzheng**, Stephan Schmidt. "Can spatial patterns mitigate the urban heat island effect? Evidence from German metropolitan regions." *Environment and Planning B: Urban Analytics and City Science*, 23998083241227500.

Li, **Wenzheng**, Stephan Schmidt, and Stefan Siedentop. "Can polycentric urban development simultaneously achieve both economic growth and regional equity? A multi-scale analysis of German regions." *Environment and Planning A: Economy and Space* (2023): 0308518X231191943.

Schmidt, Stephan, **Wenzheng Li**, John Carruthers, and Stefan Siedentop. "Planning institutions and urban spatial patterns: Evidence from a cross-national analysis." *Journal of Planning Education and Research* (2021): 0739456X211044203.

Matuke, Samantha, Stephan Schmidt, and **Wenzheng Li**. "The rise and fall of the American pedestrian mall." *Journal of Urbanism: International Research on Placemaking and Urban Sustainability* 14, no. 2 (2021): 129-144.

Papers under review:

Schmidt, Stephan, **Wenzheng Li**, Said Nuhu, Ryan Thomas. "Place attachment, regional identity and perceptions of urbanization in Moshi, Tanzania." currently under review in *Habitat International*.

Li, Wenzheng, Stephan Schmidt. "The spatial-temporal evolution toward polycentricity in Chinese cities: dynamics and explanations." currently under review (R2) in *Growth and Change*.

Li, Wenzheng, John I. Carruthers, Yuanshuo Xu. "The dynamic adjustment process of population and employment—evidence from Chinese prefectural regions." currently under review in *Paper in Regional Science*.

Zhang, Ziyue, **Wenzheng Li**, Yan Wu. "Vertical Price Curve in the Beijing Residential Housing Market." currently under review in *Journal of Regional Science*.

Working projects:

Does urban spatial pattern affect air quality? An empirical study from Germany metropolitan regions (with Stephan Schmidt)

Climate change and spatial plans: using natural language process (NLP) to understand the climate change adaptation of German regions (with Stephan Schmidt, Stefan Siedentop)

How does regional cooperation facilitate the United Nation's sustainable development goals (SDG)? An evaluation in the Yangtze River Delta (YRD) megacity region (with Yuanshuo Xu)

Who benefits from clean air? Evidence from Beijing using housing price dataset (with Ziyue Zhang)

Fellowships and grants:

2024 In progress: The Academic Venture Fund (AVF), Cornell Atkinson Center for Sustainability

2024 In progress: Climate Solutions Fund, Cornell Atkinson for Sustainability

2023 Sage Dissertation Writing Fellowship, Cornell University

2023 C.V. Starr Graduate Research Fellowship, the Einaudi Center, Cornell University (covering a semester-long salary and half tuition)

2019 Tompkins County Mobility-as-a-Service (Maas) Pilot Program, funded by FTA MOD On-Ramp program (drafted the grant proposal)

2018 Alan Black Transportation Planning Grant, Cornell University (\$1100)

Travel grants:

2023 Graduate School Travel Grant (\$500)

2023 CRP Department Travel Grant (\$500)

2022 Graduate School Travel Grant (\$600)

2022 CRP Department Travel Grant (\$500)

2021 CRP Conference (Virtual) Grant (\$120)

Media coverage:

Multiple city hubs, dispersed parks keep metro areas cooler: “Polycentric” development patterns can lessen the urban heat island effect by distributing urban density and curbing the sprawl of impervious surfaces,” a Cornell analysis finds.

Conference presents:

Can spatial patterns mitigate the urban heat island effect? Evidence from German metropolitan regions, Association of Collegiate Schools of Planning (ACSP) Conference, Chicago, 2023

Can polycentric urban development simultaneously achieve both economic growth and regional equity? A multi-scale analysis of German regions, North America Regional Science Council (NARSC) Conference, San Diego, 2023

The spatial-temporal evolution of urban development patterns in Chinese cities: dynamics and interpretation, North America Regional Science Council (NARSC) Conference, San Diego, 2023

Can spatial patterns mitigate the urban heat island effect? Evidence from German metropolitan regions, Association of Collegiate Schools of Planning (ACSP) Conference, Chicago, 2023

Urban spatial structure and the urban heat island effect? Evidence from German regions, American Association of Geographers (AAG) Conference, Denver, Colorado, 2023

Can polycentric urban development simultaneously achieve both economic growth and regional equity? A multi-scale analysis of German regions, Association of Collegiate Schools of Planning (ACSP) Conference, Toronto, Canada, 2022

The determinants and Outcomes of Chinese regional growth 2000 to 2020, North America Regional Science Council (NARSC) Conference, Montreal, Canada, 2022

The spatial-temporal evolution toward polycentricity in Chinese cities: dynamics and explanations, International Association for China Planning (IACP) Conference (virtual), 2022

Toward Polycentricity? Exploring the Dynamic Changes of Urban Spatial Structure in China 2001 – 2017, ACSP Conference (virtual), 2021

Toward Polycentricity? Exploring the Dynamic Changes of Urban Spatial Structure in China 2001 – 2017, NARSC Conference, Denver, Colorado, 2021

Vertical housing gradients—evidence from Beijing, NARSC Conference (virtual), Denver, Colorado, 2021

Housing prices and Air Quality in Beijing, NARSC Conference (virtual), 2020

Developing Mobility-as-a-Service Serving Small Urban & Rural Communities, Tompkins County, NY, MOD On-Ramp Lessons Learned webinar 2020.

Housing Prices and Time-varying NDVI, NARSC Conference, San Antonio, TX, 2018

Datasets published:

The Rise and Fall of the American Pedestrian Mall (2020) available at <https://osf.io/ybdev/> This dataset contains 125 American Pedestrian Mall records with mall properties (e.g., open/removed year) and the demographic and socio-economic factors in the associated cities.

Previous work experience:

2018-2019 Tompkins County Department of Social Services, Transportation Planner, Ithaca, NY

2015-2016 GIS/Remote Sensing Analyst—ToolGeo Technology Co. Ltd., Wuhan, China

Service to Academy:

Moderator and Discussant:

IACP Conference 2022: “Regional Challenges and regional planning”

Peer reviewer for the following journals:

Applied Geography

Growth and Change

Affiliations/Memberships

Association of Collegiate Schools of Planning (ACSP)

American Association of Geographers (AAG)

Cornell East Asian Program (EAP)

Regional Science Association International (RSAI)

International Association for China Planning (IACP)