

# XU, Xingjing

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Urban and Regional Planning, University of Florida

## Education

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University of Florida, Gainesville, US

**PhD**, Urban and Regional Planning, 2021

**Master of Science**, Statistics, 2019

Tongji University, Shanghai, China

**Master of Engineering**, Urban Planning and Design, 2014

Bauhaus University, Weimar, Germany

**Master of Science**, Advanced Urbanism, 2014

Tongji University, Shanghai, China

**Bachelor of Engineering**, Urban Planning, 2011

## Appointment

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April 2022 – present: Research assistant scientist, Department of Urban and Regional Planning, University of Florida

August 2021 – March 2022: OPS Researcher with Geoplan Center, Department of Urban and Regional Planning, University of Florida

August 2016 – August 2021: Graduate Research Assistant, Department of Urban and Regional Planning, University of Florida

April 2014 – August 2015: Urban Planner, Shanghai Tongji Urban Planning & Design Institute

September 2010 – May 2011: Internship, Shanghai Tongji Urban Planning & Design Institute

## Publications

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### Peer-Reviewed Journal Articles

Bejleri, I., **Xu, X.**, Brown, D., Srinivasan, S., & Agarwal, N. (2021). Automatic Horizontal Curve

Identification for Large Areas from Geographic Information System Roadway

Centerlines. *Transportation Research Record*, 2675(12), 1088–

1105. <https://doi.org/10.1177/036119812111032220>

Wu, Z., Gan, J., **Xu, X.**, Lu, H., Yao, X., Yang, X. & Liu, Z. (2015). Urbanization and Ecological Civilization—Pressure, Challenges and Strategies (in Chinese). *Strategic Study of Chinese Academy of Engineering*. 17 (8), pp. 88-96.

Wu, Z., Lu, H. & **Xu, X.** (2013). Planning and Constructing of Chongming Smart Ecological Island (in Chinese). *Shanghai Urban Planning Review*. (2), pp. 15-18.

## Technical Reports

- Bejleri, I., Srinivasan, S., **Xu, X.** & Rodrigues Silva, K. (2022). Characterizing Curve Crashes in Florida: Final Report. Report BDV31-977-135 submitted to Florida Department of Transportation, State Safety Office.
- Bejleri, I., **Xu, X.**, Fang, J. & Zhang, Y. (2019). *Toward a More Efficient Network Structure for Travel Demand Modeling: Final Report*. Report BDV31-977-87 submitted to Florida Department of Transportation, Forecasting and Trend Office. <https://trid.trb.org/view/1695373>
- Agarwal, N., Srinivasan, S., Bejleri, I., Goodknight, J., **Xu, X.** & Hakim, N. (2017). *Customize Systemic Analysis Methods for Florida and Identify County-Wide Safety Improvement Projects for Counties: Final Report*. Report BDV33-945-002 submitted to Florida Department of Transportation, State Safety Office.

## Peer-Reviewed Conference Proceedings

- Xu, X.** (2015). A Study on Denmark Eco-City Constructions and the Applications to Chongming Island Development (in Chinese). *Paper Collection for the 11th International Conference on Green and Energy-Efficient Building*.
- Xu, X.** (2014). European Eco-City Construction Methods in Field of Energy Use (in Chinese). *Paper Collection for 2014 Conference on Urban Development and Planning*.
- Xu, X.** (2014). European Eco-City Constructions: Experiences and Characteristics (in Chinese). *Paper Collection for the 10th International Conference on Green and Energy-Efficient Building*.
- Xu, X.** (2013). Learning from Green City Freiburg and Implicating on Eco-Development in Chongming Island (in Chinese). *Paper Collection for the 9th International Conference on Green and Energy-Efficient Building*.
- Xu, X.** & Han, J. (2012). Comparison and Evaluation of Energy Use in Domestic Eco-City Practices (in Chinese). *Paper Collection for the 8th International Conference on Green and Energy-Efficient Building*.

## Dissertations

- Xu, X.** (2021). Exploring the Relationship between Traffic Fatalities and Economic Development. PhD Dissertation. University of Florida.
- Xu, X.** (2014). A Study on European Eco-City Constructions and the Applications to Chongming Island Development. Master Thesis. Tongji University.

## Conference Presentations

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- Xu, X.** & Bejleri, I. (2022, January). *Spatio-Temporal Patterns of Traffic Fatalities and Economic*

- Development: A Study of US Counties*. Poster Presentation in Transportation Research Board 101st Annual Meeting.
- Xu, X.** & Bejleri, I. (2021, October). *Spatio-Temporal Patterns of Traffic Fatalities and Economic Development in the US*. Presentation in Association of Collegiate Schools of Planning (ACSP) (virtual).
- Xu, X.** & Bejleri, I. (2021, October). *Do economic activities have a causal relationship to traffic fatalities? An international study from 76 countries*. Poster Presentation in Association of Collegiate Schools of Planning (ACSP) (virtual).
- Xu, X.** & Bejleri, I. (2021, April). *An Automated Method to Identify Horizontal Curves on GIS Maps*. Presentation in 2021 GIS-T Symposium (virtual).
- Bejleri, I., **Xu, X.**, Brown, D., Srinivasan, S. & Agarwal, N. (2021, January). *Automatic Horizontal Curve Identification for Large Areas from GIS Roadway Centerlines*. Poster Presentation in Transportation Research Board 100<sup>th</sup> Annual Meeting (virtual).
- Xu, X.** & Bejleri, I. (2019, October). *Improving Transportation Safety: Statistical Methods for Developing Roadway Curve Safety Performance Functions*. Presentation in Association of Collegiate Schools of Planning (ACSP), Greenville, SC.
- Xu, X.** & Srinivasan, S. (2019, August). *Improving Curve Roadway Safety using Statistical Safety Performance Functions*. Presentation in 2019 ATSIP Traffic Records Forum, Austin, TX.
- Bejleri, I., **Xu, X.**, Brown, D., Agarwal, N. & Srinivasan, S. (2019, January). *An Improved Automated Method for Roadway Horizontal Curve Identification Using GIS Data*. Presentation in Transportation Research Board 98<sup>th</sup> Annual Meeting, Washington, DC.
- Xu, X.** & Bejleri, I. (2017, November). *Where Are the Curves? GIS Methodology for Automatic Detection of Roadway Curves*. Presentation in 5th Annual UTC Conference for the Southeastern Region (STRIDE), Gainesville, FL.
- Xu, X.** & Bejleri, I. (2017, October). *Systemic Analysis for Identifying High Risk Traffic Crash Locations in Small and Rural Communities in Florida*. Presentation in Association of Collegiate Schools of Planning (ACSP), Denver, CO.
- Xu, X.** & Bejleri, I. (2017, October). *Improved Method for Automated Procedure to Identify Horizontal Curves on GIS Mapstreet Centerline*. Poster Presentation in Association of Collegiate Schools of Planning (ACSP), Denver, CO.
- Xu, X.** (2016, October). *Understanding Urbanization with Economic Growth: What Happened with the Turning?* Poster Presentation in Association of Collegiate Schools of Planning (ACSP), Portland, OR.
- Xu, X.** (2015, June). *A Comparative and Historical Perspective of Urbanization Process and Future Challenge in BRICS countries*. Presentation in the 9th International Association for China Planning (IACP) Conference, Chongqing, China.
- Xu, X.** (2014, June). *A Study on European Eco-City Constructions and the Applications to Chongming Island Development*. Presentation in the 8th International Association for China Planning (IACP) Conference, Guangzhou, China.
- Xu, X.** (2012, June). *Eco Development in Chongming Island*. Presentation in 2012 Student Conference on Environment and Sustainability, Shanghai, China.

## **Research Projects**

- Research on *Characterizing Curve Crashes in Florida*. Florida Department of Transportation, 2020-2022, in charge of project management, literature review, data processing, modeling, and draft report.
- Research on *Toward a More Efficient Network Structure for Travel Demand Modeling*. Florida Department of Transportation, 2018-2019, in charge of project management, literature review, survey, proof of concept demonstration, and draft report.
- Research on *Large Truck Crash Analysis for Freight Mobility and Safety Enhancement in Florida*. Florida Department of Transportation, 2018, in charge of data processing and statistical analysis.
- Research on *Extraction of Highway Horizontal Curve Data*. Florida Department of Transportation, 2016-2017, in charge of project management, data processing, coding, and validation.
- Research on *Customize Systemic Analysis Methods for Florida and Identify County-Wide Safety Improvement Projects for Counties*. Florida Department of Transportation, 2016-2017 (Gadsden County, FL), 2018-2019 (Columbia, Jackson, Levy County, FL), 2020-2021 (Suwannee, Taylor County, FL) in charge of data collection, statistical analysis, and draft report.
- Research on *Intelligent Construction in Chinese New Urbanization*. Chinese Academy of Engineering, 2014-2015, in charge of project management.
- Research on *Interaction of Intelligent Cities and Big Data*. Chinese Academy of Engineering, 2014-2015, in charge of project management, data collection, statistical analysis, and draft report.
- Research on *Ecological Civilization and Chinese New Urbanization*. Chinese Academy of Engineering, 2013-2015, in charge of statistical analysis and draft report.
- Research on *Evaluation System of Intelligent Cities*. Chinese Academy of Engineering, 2013-2014, in charge of data collection, statistical analysis, and draft report.
- Research on *Chinese New-Style Urbanization*. Chinese Academy of Engineering, 2012-2013, in charge of data collection, statistical analysis, and draft report.
- Research on *Ecological Planning and Smart Design in Chongming Island*. Shanghai Municipal Science and Technology Commission, 2010-2012, in charge of project management, interview, and draft report.
- Research on *Eco-Design Technology Integration and Demonstration in Cities' Key Projects*. National Key Technology R&D Program in the 11th Five-year Plan of China, 2008-2011, in charge of case studies.

## **Urban Design & Planning Experiences**

- Ecological Strategy Plan of Lanxi. Zhejiang Province, China, 2014-2015
- Shared Space, a Proposal to Cycling Cities and Walking Cities. Weimar, Germany, 2013
- Gotha's Downtown. Weimar, Germany, 2012-2013
- Urban Design of Haixi Expo Theme Park. Fujian Province, China, 2012
- Concept Planning of Guangzhou Eco-Core. Guangdong Province, China, 2012
- Master Plan of Wenshui. Shanxi Province, China, 2012
- Detailed Planning of International Horticulture EXPO 2014 Qingdao. Shandong Province, China, 2011
- Concept Planning of the Knowledge City, Guangzhou. Guangdong Province, China, 2011

Urban Design of CBD in Gongbei District, Zhuhai. Guangdong Province, China, 2011  
Urban Design of Shengli Plaza, Taiyuan. Shanxi Province, China, 2011  
Urban Design for Seven Stars Lake, Shijiazhuang. Hebei Province, China, 2010-2011  
Urban Design for Juehua Island, Huludao. Liaoning Province, China, 2010-2011  
Comprehensive Plan of Tumd Right Banner. Inner Mongolia, China, 2010-201  
Master Plan of Shigezhuang, Tangshan. Hebei Province, China, 2010  
Master Plan of Xiangcheng. Henan Province, China, 2010

## **Awards**

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Paul and Malea Zwick Graduate Student Award, University of Florida, 2019  
Urban and Regional Planning Student Travel Award, University of Florida, 2017, 2018, 2019  
Planning of Qingdao World Garden Expo 2014, Award of Urban Planning and Design in Shandong Province, 2014  
Urban Design of Zhujiajiao, Award of National College of Urban Planning Steering Committee, 2010  
Scholarship of College of Architecture and Urban Planning, Tongji University, 2006, 2007, 2008, 2009, 2010, 2011

## **Skills**

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Data Science: regression analysis, experimental design, causal inference, machine learning, spatial-temporal analysis (R, Python)  
Geographic Information System: geospatial statistical analysis, automation in GIS (ArcGIS)  
Transportation Analysis: safety performance modeling, network screening, travel demand modeling (Cube)  
Planning and Design: urban design, 3-D visualization (Autodesk CAD, Revit, City Engine, Adobe Illustrator, Photoshop, InDesign)