

Xia Jin, Ph.D., AICP

Assistant Professor, Transportation Engineering

Department of Civil and Environmental Engineering, EC 3603, Florida International University
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EDUCATION

Ph.D.	Civil Engineering, University of Wisconsin – Milwaukee	2007
M.U.P.	Urban Planning, University of Wisconsin – Milwaukee	2004
M.S.	Civil Engineering, University of Wisconsin – Milwaukee	2004
B.S.	Civil Engineering, Xi’an University of Architecture and Technology	2000

AREAS OF INTEREST

Travel Demand Modeling, Activity-Travel Behavior Analysis, Land Use-Transportation Interactions, Geographic Information Systems, Travel Surveys, and Intelligent Transportation Systems

ACADEMIC EXPERIENCE

- Florida International University (FIU), Department of Civil & Environmental Engineering, Miami, FL
 - Assistant Professor, Transportation Engineering, 2011 – present
- University of Wisconsin-Milwaukee, Center for Urban Transportation Studies, Milwaukee, WI
 - Project Assistant, Transportation Engineering, 2001 – 2006
 - Teaching Assistant, Civil Engineering, 2004-2005

PROFESSIONAL EXPERIENCE

- Cambridge Systematics, Inc., New York, NY, Associate, 2009 – 2011
- Cambridge Systematics, Inc., New York, NY, Senior Professional, 2007 – 2009

COURSE INSTRUCTOR

Graduate

Travel Demand Analysis

GIS Applications in Civil & Environmental Engineering

Undergraduate

GIS Applications in Civil & Environmental Engineering

PROFESSIONAL SERVICES

- Affiliation
 - Member, Committee on Transportation and Land Development (ADD 30), Transportation Research Board of the National Academies, since 2010

- Member, Committee on Effects of Information and Communication Technologies (ICT) on Travel Choices, ADB20, Transportation Research Board of the National Academies, since 2013
 - Member, Data Committee, Florida Model Task Force (MTF), since 2011
 - Friend, Transit Committee, Florida Model Task Force (MTF), since 2011
 - American Institute of Certified Planners (AICP), since 2008
 - Women Transportation Studies (WTS), since 2002
 - North America Chinese Oversea Transportation Association (NACOTA)
 - International Association for China Planning (IACP)
- Service
 - Session Chair, the 14th TRB Conference on Transportation Planning Applications, 2013
 - Technical Co-Chair, 26th Annual Conference of the International Chinese Transportation Professional Association (ICTPA), 2013
 - Associate Editor for the 10th International Conference of Chinese Transportation Professionals (ICCTP) August, 2010
 - Referee 2004-present
 - Annual conference of the Transportation Research Board
 - Journal of Public Transportation
 - Journal of Advanced Transportation
 - Conference of the International Association for Travel Behaviour Research
 - ITS World Congress

UNIVERSITY SERVICES

2011-present	GIS Advisory Committee, FIU
2011-present	Faculty Advisor, Chi Epsilon Honor Society FIU Chapter
2012-2013	Department Search and Screen Committee for Structure Faculty, FIU
2012-2013	Parking Task Force Committee, FIU
2012-2012	Department Search and Screen Committee for Multiple Areas, FIU
2011-2012	Department Search and Screen Committee for Structure Faculty, FIU

PUBLICATIONS

Refereed Journals

1. **Jin, X.**, and A. Mohseni (2013). *Incorporating Geographic Heterogeneity in Transit Usage Modeling*. Annals of GIS. (under review)
2. **Jin, X.**, and J. Wu (2011). Propensity to Telecommute Exploring the National Household Travel Survey. Transportation Research Record 2231, TRB, National Research Council, Washington, D.C. 2011, pp. 110-119.
3. Wu, J., **X. Jin**, and A.J. Horowitz (2009). *Experiment to Improve Estimation of Vehicle Queue Length at Metered On-Ramps*. Transportation Research Record 2099, TRB, National Research Council, Washington, D.C. 2009, pp. 30-38.

4. **Jin, X.**, and A.J. Horowitz (2008). *Time-of-Day Choice Modeling for Long-Distance Trips*. Transportation Research Record 2076, TRB, National Research Council, Washington, D.C. 2008, pp. 200–208.
5. Yang, F., **X. Jin**, and R. Liu (2008). *Tour based Time of Day Choices for Weekend NonWork Activities*. Transportation Research Record 2054, TRB, National Research Council, Washington, D.C. 2008, pp. 37–45.
6. Wu, J., **X. Jin**, and A.J. Horowitz (2008). *Methodologies for Estimating Vehicle Queue Length at Metered On-Ramps*. Transportation Research Record 2047, TRB, National Research Council, Washington, D.C. 2008, pp. 75–82.
7. Chiao, KA., **X. Jin**, and etc. (2008). *Travel Demand Forecasting in China and the U.S.* Urban Transport of China ISSN 1672-5328, 02-0077-06, pp. 77-82, March 2008.
8. Zou, X., KA. Chiao, and **X. Jin** (2008). *Trends and Prospects of Travel Demand Modeling Practices in China and the U.S.* Urban Transport of China ISSN 1672-5328, 02-0077-06, pp. 83-86, March 2008.
9. Chiao, KA., Y. Yang, F. Yang, **X. Jin**, and X. Zou (2008). *Legislation Background of Urban Travel Demand Forecasting in the U.S.* Urban Transport of China ISSN 1672-5328, 02-0077-06, pp. 73-76, March 2008.
10. Wang, W., S. Yang, and **X. Jin** (2008). *Optimization Model for Locating Service Stations along the Freeway*. American Society of Civil Engineers Transportation and Development Innovative Best Practices, pp. 136-141, 2008.
11. Beimborn, E.A., M.J. Greenwald, and **X. Jin** (2003). *Accessibility, Connectivity, and Captivity Impacts on Transit Choice*. Transportation Research Record 1835, TRB, National Research Council, Washington, D.C. 2003, pp. 1-9.

Book Chapters

1. **Jin, X.**, and A.J. Horowitz (2009). *Transferability of Time-of-Day Choice Modeling for Long-Distance Trips*. In Transportation Statistics, Chapter 12, ed. Brian W. Sloboda J. Ross Publishing, Inc, 2009.
2. Horowitz, A.J., and **X. Jin** (2006). *Statewide Travel Forecasting Models*, NCHRP Synthesis 358: Chapter 3, Case Studies, 2006.

Refereed Conference Proceedings

1. **Jin, X.**, J. Wu, H. Asgari, and J. Argote (2013). *Examining Trip Misreporting Behavior Using GPS-Assisted Household Travel Surveys*. Proceedings of the 92nd annual meeting of the Transportation Research Board, National Research Council, Washington, D.C., 2013.
2. **Jin, X.**, and J. Wu (2012). *Telecommute Behavior and Implications on Modeling*. Proceedings of the 4th Transportation Research Board Conference on Innovations in Travel Modeling (ITM), Tampa, Florida, 2012.
3. **Jin, X.**, and J. Wu (2011). *Propensity to Telecommute – Exploring the National Household Travel Survey*. Proceedings of the 90th annual meeting of the Transportation Research Board, National Research Council, Washington, D.C., 2011.
4. **Jin, X.**, KA. Chiao, and A. Mohseni (2010). *Effects of Land Use and Origin-Destination Pattern on Mode Choice Modeling*. Proceedings of the 89th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C., 2010.
5. **Jin, X.**, and KA. Chiao (2010). *New York Transportation Information Gateway – Integrating Planning Data, Models and Visualization Tools*. Proceedings of the 89th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C., 2010.
6. **Jin, X.**, and A.J. Horowitz (2009). *Transferability of Time-of-Day Choice Modeling for Long-Distance Trips*. Proceedings of the 88th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C., 2009.

7. Wu, J., **X. Jin**, and A.J. Horowitz (2009). *Experiment to Improve Estimation of Vehicle Queue Length at Metered On-Ramps*. Proceedings of the 88th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C., 2009.
8. **Jin, X.**, and A.J. Horowitz (2008). *Time-of-Day Choice Modeling for Long-Distance Trips*. Proceedings of the 87th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C., 2008.
9. **Jin, X.**, and KA. Chiao (2008). *A Synthesis of Time-of-Day Modeling Research*. Proceedings of the 87th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C., 2008.
10. Yang, F., **X. Jin**, and R. Liu (2008). *Tour based Time of Day Choices for Weekend NonWork Activities*. Proceedings of the 87th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C., 2008.
11. Wu, J., **X. Jin**, and A.J. Horowitz (2008). *Methodologies for Estimating Metered On-Ramp Vehicle Queue Length*. Proceedings of the 87th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C., 2008.
12. Horowitz, A.J., **X. Jin**, and Y. Zhu (2008). *Transferability of the Business Attraction Module in the Highway Economic Analysis Tool*. 2008 Mid-Continent Transportation Research Forum, Madison, Wisconsin, August 2008.
13. Wu, J., and **X. Jin** (2008). *Reforming Ramp Meter Queue Override*. Proceedings of the 15th World Congress on Intelligent Transportation Systems, New York, New York, 2008.
14. Beimborn, E.A., M.J. Greenwald, and **X. Jin** (2003). *Accessibility, Connectivity, and Captivity Impacts on Transit Choice*. Proceedings of the 82th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C., 2003.

Research Report

1. Horowitz, A.J., **X. Jin**, and Y. Zhu (2007). *An Evaluation of the Business Attraction Module in Montana's Highway Economic Analysis Tool Report 2007*.
2. **Jin, X.**, and A.J. Horowitz (2005). *Guidebook on Incident Management Planning in Work Zones*, Smart Work Zone Deployment Initiative (SWZDI) Report 2005.
3. **Jin, X.**, E.A. Beimborn, and M.J. Grenwald (2004). *Impacts of Accessibility, Connectivity and Mode Captivity on Transit Choice*, the Great Cities' Transportation Initiative (GCU TI) Report 2004.

FUNDED RESEARCH

- *Towards a Holistic Understanding of Quality of Life: An Analysis of Activity-Travel Patterns on Non-Mid-week Day*. In partnership with University of Florida, Research and Innovation Technology Administration (RITA), USDOT, via Southeast Transportation Research, Innovation, Development, and Education Center (STRIDE), 2012-2013.
- *Planning for Incorporating Ancillary Demands in the Next Generation FSUTMS*. Florida Department of Transportation (subcontract from University of Florida), 2013-2013.
- *Traffic Management Centers: Challenges, Best Practices, and Future Plans*. RITA, USDOT, via National Center for Transportation System Productivity and Management (NCTSPM), Georgia Institute of Technology, 2012-2013.
- *Traffic Incident Management Program Assessment and Performance Measures*. District 4 Florida Department of Transportation, 2012-2013.

- *I-95 Ramp Metering Feasibility Study*. District 4 Florida Department of Transportation (via AECOM), 2012-2013.
- *Model Sensitivity and Acceptance Test Plan for the Best Practices Model (BPM) 2010 Base Year Update and Validation*. New York Metropolitan Transportation Council (NYMTC), subcontract from Parsons Brinckerhoff, 2012-2013.
- Reviewed the statewide travel forecasting models for the National Cooperative Highway Research Program (NCHRP), 2006, (PI: Dr. Alan Horowitz).
- Developed a guidebook on incident management in work zones in support of the Federal Highway Administration (FHWA) Smart Work Zone Deployment Initiative (SWZDI), 2005, (PI: Dr. Alan Horowitz).
- Developed improved logit models in mode choice modeling considering rider characteristics, build environment and transit level of service through the Great Cities University Transportation Consortium for the U.S. DOT and Federal Transit Administration (FTA), 2002-2004, (PI: Dr. Edward Beimborn).

CONSULTANT PROJECTS

- Examine GPS data collected from households carrying portable GPS units for 48-hour periods. Conduct data checking and data exploration on the impacts of trip underreporting, and recommend procedures for integration with the conventional travel diary sample, New York Metropolitan Transportation Council (NYMTC), 2011-2012.
- Led a model exploration program and designed the second generation of the modeling system incorporating latest activity-based modeling techniques and algorithms to address various technical and policy issues, NYMTC, 2009-2011.
- Supervised the recalibration and upgrading process of the regional travel demand model and the development of a flowchart based user interface for the model, NYMTC, 2009-2011.
- Researched the data needs and sample design for the regional household travel survey and various other surveys (such as visitor survey and workplace survey), including the sample plan, survey methodology, questionnaire design, and data collection monitoring procedures, NYMTC, 2009-2011.
- Designed the conceptual framework and developed the white paper for a Transportation Information Gateway (TIG) that integrates GIS, information technology, and various web-based applications in the planning decision making process, NYMTC, 2008-2009.
- Researched latest studies and practices in integrated transportation-land use models in terms of their current capabilities, and organized a national workshop in land use modeling for the stakeholders, NYMTC, 2007-2008.

INVITED TALKS

- Trip Misreporting from Household Travel Survey Data. ITE Chapter FIU, 2012.
- Reforming Travel Demand Models. ICTPA Florida Chapter Semi-Annual Meeting, 2011.

STUDENTS ADVISED

Hamidreza Asgari, PhD student, 2011-present
Md Sakoat Hossan, PhD student, 2012-present
Bodler Barthelemy, MS, 2012
kollol Shams, PhD student, 2012-present
Aidin Massahi, PhD student, 2013-prresent