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## 1. Research Focus Areas

- Sustainable transportation systems modeling and design with a focus on
  - air pollution and greenhouse gas mitigation strategies,
  - health exposure analysis to mobile source pollutants
  - green freight transportation and urban logistics design and strategies
  - public transport service paradigm
  - new mobility service enabled by information technology (ride sourcing, ride sharing, EV, AV, and crowdshipping)
- Applications of data analytics and systems analysis methods in transportation and environmental sustainability

## 2. Teaching Focus Areas

- Transportation Engineering
- Sustainable Urban Transportation Systems
- Transportation systems analysis
- Public Transit Operations and Technology
- City logistics and freight transportation
- Engineering Design Principles and Procedures

## 3. Professional Preparation

B.S., Civil Engineering (minor degree in Computer Science), Tsinghua University, Beijing, China, 1996.

M.S., Civil and Environmental Engineering, University of California, Davis, 2000, advisors: Professors Dan Sperling (inducted NAE member) and Deb Niemeier (inducted NAE member).

Ph.D., Civil and Environmental Engineering (minor degree in Statistics), University of California, Davis, 2002, advisor: Professor Deb Niemeier (inducted NAE member).

Post-doctoral fellow, Center for the Environment, School of Engineering and Applied Sciences, Harvard University, Cambridge, MA, February 2002-August 2003, advisor: Late Professor Peter Rogers.

## 4. Appointments

August 2019 - present	Professor, Department of Civil, Materials, and Environmental Engineering, University of Illinois at Chicago Research Professor, Institute of Environmental Science and Policy, University of Illinois Chicago
August 2009 – August 2019	Associate Professor, Department of Civil, Materials, and Environmental Engineering, University of Illinois Chicago Research associate professor, Institute of Environmental Science and Policy, University of Illinois Chicago
August 2003 – August 2009	Assistant Professor, Department of Civil, Materials, and Environmental Engineering, University of Illinois Chicago Research assistant professor, Institute of Environmental Science and Policy, University of Illinois Chicago
January 2011 – present	Chief Technology Officer, Pirouette Software, Chicago, IL
February 2002-August 2003	Post-doctoral research fellow, Harvard University, Cambridge, MA
July 2001- January 2002	Associate transportation engineer, DKS Associates, Sacramento, CA
September 1997- January 2002	Graduate student research assistant, University of California Davis

August 1996- June 1997

Oracle database programmer, China Online, Guangzhou, China

## 5. Professional Leadership/Membership

- Member, Board of the Scientific Counselors (BOSC), Climate Change subcommittee, U.S. Environmental Protection Agency (EPA), March 2022 – February 2026.
- Chair, Sustainability & Resilience Group (AM000), Transportation Research Board (TRB), National Academies of Sciences, Engineering, and Medicine, April 2020 – April 2024.
- Member, Technical Activity Council (TAC), Transportation Research Board (TRB), National Academies of Sciences, Engineering, and Medicine, April 2020 – April 2024.
- Vice Chair, Section on Energy and Environment (ADC00), Transportation Research Board (TRB), National Academies of Sciences, Engineering, and Medicine, October 2017 – April 2020.
- Chair, Committee on Transportation and Air Quality ADC20 (now Committee on Air Quality and Greenhouse Gas Mitigation AMS10), Transportation Research Board (TRB), National Academies of Sciences, Engineering, and Medicine, April 2011 – April 2017.
- Member, Transportation Research Board (TRB) Committee on Transportation and Air Quality (now Committee on Air Quality and Greenhouse Gas Mitigation AMS10), April 2007 – April 2017.
- Vice president, Association of the Tsinghua Alumni in Transportation (ATAT), January 2010 – January 2015.

## 6. Editorial Activities

- Editor, *Transport Policy*, January 2018 – present.
- Associate Editor, *Transportation Research Part D: Transportation and Environment*, January 2017 – present.
- Editorial board member, *Future Transportation*, March 2023 – present
- Editorial advisory board member:
  - *Transportation Research Part A: Policy and Practice*, February 2008 – present.
  - *International Journal of Sustainable Transportation*, August 2011 - present.
- Guest editor,
  - special issue on "Emerging Urban Mobility Services", *Transportation Research Part C: Emerging Technology*, 2016-2017.
  - special issue on "Urbanization, Transportation and Air Quality in Developing Countries", *Transportation Research Part D: Transportation and the Environment*, 2017-2018.
- Editorial chair, Committee on Transportation and Air Quality, *Journal of Transportation Research Board: Transportation Research Record*, 2011-2017.
- Editorial member, Committee on Transportation and Air Quality, *Journal of Transportation Research Board: Transportation Research Record*, 2008-2010.
- Associate editor,
  - *Proceedings of the 2011 IEEE Forum on Integrated and Sustainable Transportation Systems*, 2011.
  - *Proceedings of the 2024 IEEE Forum on Integrated and Sustainable Transportation Systems*, 2024.

## 7. Awards

- 2000-2001: University of California Transportation Center (UCTC) doctoral dissertation award, \$15,000.
- 2006: UIC College of Engineering Faculty Research Award.
- 2009: UIC College of Engineering Faculty Research Award.
- 2021: UIC College of Engineering Advising Award.
- Best paper awards:  
[\*graduate student or postdoc advised, +corresponding author]

- a. Yu, D.\* and **Lin, J.**<sup>+</sup>, “Development of a CO hot-spot screening model for toll highway facilities” *the Council of University Transportation Centers (CUTC) Parker Award*, January 2006.
- b. Auld, J.\* and **Lin, J.**<sup>+</sup>, “Analysis of National County-level Heavy-duty Freight Truck Emissions”, *Best Paper Award, 2<sup>nd</sup> prize, at the 2007 Transport Chicago Conference*.
- c. Long, L.\* and **Lin, J.**<sup>+</sup>, “What neighborhood are you in? Empirical Findings of Relationships between Residential Location, Lifestyle, and Travel”, *the 2007 ITE Illinois Section Best Paper Award*.
- d. Ayala, D.\* , **Lin, J.**, and Wolfson, O.<sup>+</sup>, “Communication Reduction for Floating Car Data based Traffic Information Systems”, *Best paper award at the Second International Conference on Advanced Geographic Information Systems, Applications, and Services, GEOProcessing 2010*, St. Maarten, Netherlands Antilles, February 10-16, 2010.
- e. Ruan, M.\* , Kawamura, K., and **Lin, J.**<sup>+</sup>, "Modeling Commercial Vehicle Daily Tour Chaining", *Best paper competition 3<sup>rd</sup> place at the TRB-SHRP2 Freight Modeling and Data Symposium*, Washington DC, September 14-15, 2010.
- f. Ballare, S. and **Lin, J.**<sup>+</sup>, “Investigating the use of microhubs and crowdshipping for last mile delivery”, *Outstanding Paper Award for presentation at the 11<sup>th</sup> International Conference on City Logistics*, Dubrovnik, Croatia, June 12-14, 2019.
- g. Shen, H.\* and **Lin, J.**<sup>+</sup>, “A Crowd-shipping Courier’s Choice for Delivery Gigs,” *Best Paper Award of the AT015 Committee on Freight Transportation Planning & Logistics*, the 101<sup>st</sup> TRB Annual Meeting, Washington DC, January 9-13, 2022.
- h. Cheng, X.\* , Shen, H.\* , Huang, Y., Cheng, Y.\* , and **Lin, J.**<sup>+</sup>, “Mitigating Battery Disruption of Electric Vehicles on Highways”, *Best Paper Award of the 2024 IEEE Forum on Integrated and Sustainable Transportation Systems (FISTS)*, Riverside, CA, February 25-28, 2024

## 8. Invited scholarships

- Invited visiting scholar to Department of Transportation, University of Valenciennes, France, July 1- July 31, 2011.
- Invited visiting scholar to Dalian University of Science and Technology, Dalian, China, November 19-22, 2012.
- Invited visiting scholar to the China Research Academy of Environmental Science (CRAES), Beijing, China, December 3-21, 2012.
- Invited visiting scholar to Department of Civil Engineering, Harbin Institute of Technology, Harbin, China, December 6-10, 2012.

## 9. Invited Academic Colloquia

1. “Understanding Transportation, Land Use, and Air Quality”, Department of Statistics and Center for Integrating Statistics and Environmental Science, University of Chicago, Chicago, IL, May 13, 2004.
2. “Transferability of travel data across geographic areas by neighborhood type”, Northwestern University, Evanston, IL, May 4, 2006.
3. “Integrating Land-use, Urban Transport, and Air Quality: A Comparative Study of China and India”, University of Michigan, Ann Arbor, MI, November 17, 2006.
4. “Mobile Source Emissions and Climate Change”, University of Illinois Chicago, Graduate College summer seminar series on *interdisciplinary perspective on global environmental changes*, May 19, 2008.
5. “Understanding Issues and Challenges in Freight Transportation and Emission Modeling”, Cornell University, Ithaca, NY, April 16, 2009.
6. “Modeling Air Quality Impact of Transportation”, Department of Civil and Environmental Engineering, University of Florida, Gainesville, FL, March 28, 2011.
7. “Bus as probe for urban travel time prediction”, Presented at the Peer Exchange Meeting with Researchers at University of Versailles, University of Valenciennes, and Engineering School of

- Telecommunication in Paris, France, July 19, 2011.
8. “Economic and Environmental Analyses of Urban Delivery Consolidation Strategies”, Presented at the Hong Kong Society for Transportation Studies jointly organized with Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University, Hong Kong, October 20, 2012.
  9. “Integrated Framework for Fine-Grained Transportation and Air Quality Analyses”, Dalian University of Science and Technology, Dalian, China, November 19, 2012.
  10. “Modeling Land Use, Bus Ridership and Air Quality: A Case Study of Chicago Bus Service”, Dalian University of Science and Technology, Dalian, China, November 21, 2012.
  11. “Economic and Environmental Analyses of Urban Delivery Consolidation Strategies”, Dalian University of Science and Technology, Dalian, China, November 22, 2012.
  12. “Integrated Framework for Environmentally Sustainable Transportation Policy Analyses”, China Research Academy of Environmental Science (CRAES), Beijing, China, December 5, 2012.
  13. “Sensitivity Tests of MOVES and AERMOD models for PM<sub>2.5</sub> Hotspot Analysis”, China Research Academy of Environmental Science (CRAES), Beijing, China, December 12, 2012.
  14. “Integrated Framework for Environmentally Sustainable Transportation Policy Analyses”, Department of Civil Engineering, Harbin Institute of Technology, Harbin, China, December 6, 2012.
  15. “Bus Probe Based Urban Travel Time Prediction”, Department of Civil Engineering, Harbin Institute of Technology, Harbin, China, December 7, 2012.
  16. “Modeling Land Use, Bus Ridership and Air Quality: A Case Study of Chicago Bus Service”, Department of Civil Engineering, Harbin Institute of Technology, Harbin, China, December 8, 2012.
  17. “Economic and Environmental Analyses of Urban Delivery Consolidation Strategies”, Department of Civil Engineering, Harbin Institute of Technology, Harbin, China, December 9, 2012.
  18. “Mobile Source Emissions and Climate Change”, Department of Civil Engineering, Harbin Institute of Technology, Harbin, China, December 10, 2012.
  19. “Integrated Framework for Fine-Grained Transportation and Air Quality Analyses”, Presented at the Department of Environmental Science and Engineering, Tsinghua University, Beijing, China, December 3<sup>rd</sup>, 2012.
  20. “Integrated Framework for Fine-Grained Transportation and Air Quality Analyses”, Presented at the Transport Planning and Research Institute, Ministry of Transport, Beijing, China, December 14, 2012.
  21. “Sensitivity Tests of MOVES and AERMOD models for PM<sub>2.5</sub> Hotspot Analysis”, Joint research meeting by US Environmental Protection Agency, Cornell University, University of Illinois Chicago, and Tsinghua University, Beijing, China, December 16, 2012.
  22. “Estimating Near-Road Pollution and Health Exposure”, Department of Civil, Environmental and Architectural Engineering, Illinois Institute of Technology, Chicago, IL, April 2, 2014.
  23. “Green Urban Freight Consolidation Strategies”, Department of Civil and Environmental Engineering, Northwestern University, Evanston, IL, May 14, 2015.
  24. “Integrated Transportation, Air Quality and Exposure Analysis Framework”, Division of Transportation Studies, College of Engineering, Sun Yat-sen University, Guangzhou, China, June 7, 2017.
  25. “Emerging Trends in Last-mile Logistics: How green are they?” Institute for Transportation Studies, University of California, Davis, CA, October 25, 2019.
  26. “Emerging Trends in Last-mile Logistics: How green are they? The US Experience”, University of Shanghai for Science and Technology, Shanghai, China, December 16, 2019.
  27. “Emerging Trends in Last-mile Logistics: How green are they? The US Experience”, Shanghai Maritime University, Shanghai, China, December 20, 2019.
  28. “Long-haul Electric Truck Routing with Coordinated Driver Schedule and Charging Activities: When and Where to Charge”, Northwestern University, May 11, 2023.
  29. “An equitable and stable two-sided matching problem for a crowd-shipping market”, TU Delft, June 2, 2023.
  30. “Long-haul Electric Truck Routing with Coordinated Driver Schedule and Charging

Activities: When and Where to Charge”, University of Illinois Kent Seminar Series, September 21, 2023.

31. “An Autonomous Modular Public Transit Service”, Purdue University, Institute for Control, Optimization, and Network (ICON), October 6, 2023.

## 10. Invited Keynote and Panel Presentations

1. “Incorporating Geographic/Spatial Sustainable Measurements in Transportation Planning and Operations”, Panelist for “NSF Sciences Behind Sustainability Quantification for Building & Infrastructure Design, Engineering and Construction Workshop” (S2QBIDEC), Fort Worth, Texas, Nov 7-9, 2012.
2. Panel on *Alternative Fuels Development as a Green Product Trend in USA*, at the Global Commercial Vehicle and Off-highway Vehicle Summit 2017, Chicago, IL, December 6<sup>th</sup>, 2017.
3. “Emerging Trends in Last-mile logistics: Where Do We Go from Here?”, Keynote speech at *the Global Commercial Vehicle and Off-Highway Vehicle Summit 2017*, Chicago, IL, December 6-8, 2017.
4. Panel on *Trends for New Energy Commercial Vehicles and How It Impacts the Future of Efficiency and Emissions*, at the Global Commercial Vehicle and Off-highway Vehicle Summit 2017, Chicago, IL, December 7<sup>th</sup>, 2017.
5. 2018 Ethanol Summit of the Asia-Pacific, Panel on the *Environmental Benefits of Blending Ethanol into Gasoline – Impacts on Air Quality and Greenhouse Gas Emissions In Five Major World Capitals*, Minneapolis, MN, May 22, 2018.
6. Virtual Panel on *Infrastructure*, at the 25<sup>th</sup> Belle R. & Joseph H. Braun Memorial Symposium – Cutting through Academic Silos within the University of Illinois System to Achieve Sustainability, October 30, 2020.
7. Panel on *The Future of Transportation in Chicago*, at the Chicago Council of Science and Technology (C2ST), , Chicago, IL, May 3, 2021.
8. The Hill, Virtual panel on *The Road to Zero Emission Trucks: Fleets and Shippers*, September 15, 2021.
9. Virtual panel on *Work-life Balance*, at the U.S. Environmental Protection Agency (EPA) Women in Science and Engineering (WISE) Special Emphasis Program, March 15, 2022.
10. The Climate Change Challenge (CCC) International Transportation Webinar 2022, co-sponsored by China Highway & Transportation Society (CHTS), Transportation Research Board (TRB), International Road Federation (IRF), European Conference of Transport Research Institutes (ECTRI), and Chinese Overseas Transportation Association (COTA), September 27/29, 2022.
11. The Transportation Research Board annual meeting workshop on “Moving Together: Promises and Challenges in Co-Modal Passenger-Freight Transport”, Washington D.C., January 8, 2023.
12. Panel on *Emerging Trends in e-Commerce and How They May Impact Your Community*, at the 2023 APA-IL State Conference, Naperville, IL, September 11, 2023.
13. Workshop on *the State of Science for Particulate Matter Health Effects*, hosted by the Health Effects Institute (HEI), Arlington, VA, December 5-6, 2023.
14. The 2024 IEEE Forum on Integrated and Sustainable Transportation Systems (FISTS), Panel host on *shared mobility*, Riverside, CA, February 26-28, 2024.
15. “Equitable and Sustainable Electrification of Freight Transportation”, Panel on *Equity Bottlenecks in Sustainable Transportation Systems*, at the Workshop on Envisioning Equitable Transitions to Sustainable Transportation Systems, A UIUC-UIC Collaborative Workshop Sponsored by the Alfred P. Sloan Foundation, Chicago, IL, May 16-17, 2024.
16. “Equitable and Sustainable Electrification of Freight Transportation: Challenges and Opportunities”, Panel on *Transportation Infrastructure and Climate Change*, at the 2024 Center for Connected and Automated Transportation (CCAT) Global Symposium on Mobility Innovations, Ann Arbor, MI, May 21-22, 2024.
17. “Decarbonizing transportation systems: Challenges and Innovations”, Keynote speech at *the 2024 Annual Conference of the Association of Chinese American Scientists and Engineers*, Arlington Heights, IL, October 26, 2024.
18. Panel on *Resilient and Sustainable Highway Infrastructure*, at the Workshop on Data that Extends the Life-Cycle of Highway Infrastructure Assets, the 104<sup>th</sup> Transportation Research Board Annual Meeting,

Washington D.C., January 5-9, 2025.

## 11. Refereed Publications

[\*graduate student or postdoc advised, +corresponding author]

### (a) Refereed Journal and Equivalent<sup>1</sup> Articles

1. Niemeier, D.<sup>+</sup>, Redmond, L., Morey, J., Hicks, J., Hendren, P., **Lin, J.**, Foresman, E., and Zheng, Y. (2001) Redefining conventional wisdom: exploration of automobile ownership and travel behavior in the United States. *Transportation Research Circular*, E-C026, 207-219, ISSN: 0097-8515.
2. **Lin, J.** and Niemeier, D.A.<sup>+</sup> (2002) An exploratory analysis comparing a stochastic driving cycle to California's regulatory cycle. *Atmospheric Environment* Vol 36 (38), 5759-5770.
3. **Lin, J.** and Niemeier, D.A.<sup>+</sup> (2003) Estimating regional air quality vehicle emission inventories: Constructing robust driving cycles. *Transportation Science*, Vol. 37, No. 3, 330-346.
4. **Lin, J.** and Niemeier, D.A.<sup>+</sup> (2003) Regional driving characteristics, regional driving cycles. *Transportation Research Part D: Transportation and Environment*, Vol. 8, Issue 5, 361-381.
5. **Lin, J.**<sup>+</sup> and Ge, Y. (2006) Impacts of Traffic Heterogeneity on Roadside Air Pollution Concentration. *Transportation Research Part D: Transportation and Environment*, 11 (2), 166-170.
6. Chen, C.<sup>+</sup> and **Lin, J.** (2006) Making an Informed Vehicle Scrappage Decision. *Transport Reviews*, Vol. 26, No.6, 731-748.
7. Haller, M.<sup>\*</sup>, Welch, E.<sup>+</sup>, **Lin, J.** and Fulla, S.<sup>\*</sup> (2007) Economic costs and environmental impacts of alternative fuel vehicle fleets in local government: An interim assessment of a voluntary ten-year fleet conversion plan. *Transportation Research Part D: Transportation and Environment*, Vol. 12, Issue 3, 219-230.
8. **Lin, J.**<sup>+</sup>, Chen, C. and Niemeier, D.A. (2008) An Analysis on Long Term Emission Benefits of a Government Vehicle Fleet Replacement Plan In Northern Illinois. *Transportation*, Vol 35, No. 2, 219 – 235.
9. **Lin, J.**<sup>+</sup> and Yu, D.<sup>\*</sup> (2008) Traffic Related Air Quality Assessment for Open Road Tolling Highway Facility. *Journal of Environmental Management*, Vol. 88, Issue 4, 962-969.
10. **Lin, J.**<sup>+</sup>, Wang, P.<sup>\*</sup> and Barnum, D. (2008) A Quality Control Framework for Bus Schedule Reliability. *Transportation Research Part E: Transportation Review and Logistics*, Vol. 44, Issue 6, 1086–1098.
11. **Lin, J.**<sup>+</sup> and Long, L.<sup>\*</sup> (2008) What Neighborhood Are You In? Empirical Findings of Relationships between Household Travel and Neighborhood Characteristics. *Transportation*, Vol. 35, No.6, 739-758.
12. **Lin, J.**<sup>+</sup> and Long, L.<sup>\*</sup> (2008) Model-based Approach to Synthesize Household Travel Characteristics across Neighborhood Types and Geographic Areas. *The ASCE Journal of Transportation Engineering*, Vol.134, No.12, 493-503, DOI: 10.1061/ASCE0733-947X.
13. Long, L.<sup>\*</sup>, **Lin, J.**<sup>+</sup> and Pu, W.<sup>\*</sup> (2009) Model-Based Synthesis of Household Travel Survey Data in Small- and Mid-Size Metropolitan Areas. *Transportation Research Record: The Journal of Transportation Research Board* 2015 (ISSN 0361-1981), 64-70.
14. Pu, W.<sup>\*</sup>, **Lin, J.**<sup>+</sup> and Long, L.<sup>\*</sup> (2009) Real-Time Estimation of Urban Street Travel Time Using Buses as Speed Probes. *Transportation Research Record: The Journal of Transportation Research Board* 2129, 81-89.
15. **Lin, J.**<sup>+</sup> and Ruan, M.<sup>\*</sup> (2009) Probability Based Bus Headway Regularity Measure. *IET Intelligent Transport Systems*, Vol. 3, Iss. 4, 400–408.
16. Long, L.<sup>\*</sup>, **Lin, J.**<sup>+</sup> and Prousaloglou, K. (2010) Investigating Contextual Variability in Mode Choice Using Hierarchical Mixed Logit Model. *Urban Studies* 47(11), 2445-2459.
17. Szczurek, P.<sup>\*</sup>, Xu, B., **Lin, J.** and Wolfson, O.<sup>+</sup> (2010) Spatio-temporal Information Ranking in VANET Applications, *International Journal of Next Generation Computing* Vol 1(1), 52-72.

<sup>1</sup> Articles published in highly selective computer science conference proceedings are considered journal equivalent publications.

18. Ruan, M.\* and **Lin, J.**<sup>+</sup> (2010) A Synthesis Framework for Generating County Level Freight Data Using Public Sources for Spatial Autocorrelation Analysis, *Transportation Research Record: Journal of Transportation Research Board*, No. 2160, 151-161.
19. Barnum, D.T.<sup>+</sup>, Gleason, J.M., Hemily, B., **Lin, J.** and Wang, P.\* (2010) Progressing from uncertainty to risk for DEA-based decisions, *Journal of the Operational Research Society* 61 (10), 1548-1555.
20. Szczurek, P.\* , Xu, B., Wolfson, O.<sup>+</sup>, **Lin, J.**, and Rische, N. (2010) Prioritizing Travel Time Reports in Peer-to-Peer Traffic Dissemination, *Proceedings of the 7<sup>th</sup> IEEE, IET International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP) 2010*, pp. 454-458.
21. Szczurek, P.\* , Xu, B., Wolfson, O.<sup>+</sup>, and **Lin, J.** (2011) Intelligent Transportation Systems: When is Safety Information Relevant, *12th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2011)*, pp. 1-6.
22. Ayala, D.\* , Wolfson, O.<sup>+</sup>, Xu, B., Dasgupta, B., and **Lin, J.** (2011) Parking Slot Assignment Games, *Proceedings of the ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*, pp. 299-308.
23. Vallamsundar, S.\* and **Lin, J.**<sup>+</sup> (2011) MOVES versus MOBILE: A comparison of GHG and Criteria Pollutant Emissions, *Transportation Research Record: Journal of Transportation Research Board*, No. 2233, 27-35.
24. Vallamsundar, S.\* and **Lin, J.**<sup>+</sup> (2011) Overview of U.S EPA New Generation Emission Model: MOVES, *ACEE International Journal on Transportation and Urban Development*, Vol 1, Issue 1, pp. 39-43.
25. Thakuriah, P.<sup>+</sup>, Metaxatos, P., **Lin, J.**, and Jensen, E.\* (2012), An examination of factors affecting propensities to use bicycle and pedestrian facilities in suburban locations, *Transportation Research Part D: Transportation and the Environment*, Vol.17 (4), 341-348.
26. Ruan, M.\* , **Lin, J.**<sup>+</sup>, and Kawamura, K. (2012) Modeling Commercial Vehicle Daily Tour Chaining, *Transportation Research Part E: Transportation Review and Logistics*, Vol 48 (6), 1169-1184.
27. Vallamsundar, S.\* and **Lin, J.**<sup>+</sup> (2012) MOVES and AERMOD Used for PM<sub>2.5</sub> Conformity Hot-Spot Air Quality Modeling, *Journal of Transportation Research Board*, No. 2270, 39-48.
28. Chen, Q.\* , **Lin, J.**<sup>+</sup>, and Kawamura, K. (2012) A Comparison between Urban Cooperative Delivery and Direct Delivery Strategies, *Journal of Transportation Research Board*, No. 2288, 28-39.
29. Szczurek, P.\*<sup>+</sup>, Xu, B., Wolfson, O., and **Lin, J.** (2012) Estimating Relevance for the Emergency Electronic Brake Light Application, *IEEE Transactions on Intelligent Transportation Systems*, Vol 13 (4), 1638-1656.
30. Szczurek, P.\* , Xu, B., Wolfson, O.<sup>+</sup>, and **Lin, J.** (2012) A Platform for the Development and Evaluation of Passive Safety Applications, *2012 IEEE Intelligent Vehicles Symposium (IV 2012)*, pp. 808-813.
31. Ayala, D.\* , Wolfson, O.<sup>+</sup>, Xu, B., Dasgupta, B., and **Lin, J.** (2012) Parking in Competitive Settings: A Gravitational Approach, *IEEE 13th International Conference on Mobile Data Management*, pp. 27-32.
32. Ayala, D.\* , Wolfson, O.<sup>+</sup>, Xu, B., Dasgupta, B., and **Lin, J.** (2012) Spatio-temporal Matching for Road Networks, *Proceedings of the 20th International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL) 2012*, pp.518-521.
33. Ayala, D.\* , Wolfson, O.<sup>+</sup>, Xu, B., Dasgupta, B., and **Lin, J.** (2012) Pricing of Parking for Congestion Reduction, *Proceedings of the 20th International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL) 2012*, pp.42-51.
34. Chen, Q.\* , Adida (Goodman), E., and **Lin, J.**<sup>+</sup> (2013) Implementation of an iterative headway-based bus holding strategy with real-time information, *Public Transport*, Vol.4 (3), 165-186.
35. Zhou, Z.\* , Li, L.<sup>+</sup>, and **Lin, J.** (2014) Integrated Analytical Modeling for Production Systems Coupled with Material Handling Systems, *IEEE Transactions on Systems, Man and Cybernetics: Systems*, Vol. 44, Issue 8, 1067-1076.
36. Wolfson, O.<sup>+</sup> and **Lin, J.** (2014) A Marketplace for Spatio-temporal Resources and Truthfulness of its Users, *Proceedings of the 7th ACM SIGSPATIAL International Workshop on Computational*



*Transportation Science*, pp. 70-75.

37. Chen, Z. \*, Yin, Y. +, He, F., and **Lin, J.** (2015) Parking Reservation for Managing Downtown Curbside Parking, *Transportation Research Record: Journal of the Transportation Research Board*, No. 2498, 12–18.
38. **Lin, J.** +, Szczurek, P. \*, Wolfson, O., and Xu, B. (2015) The Observe-Driver-and-Learn Platform for the Development of VANET Safety Applications, *Journal of Transportation Research Board*, No. 2489: 49-56.
39. Zou, B. +, Kafle, N. \*, Wolfson, O., and **Lin, J.** (2015), A Mechanism Design Based Approach to Solving Parking Slot Assignment in the Information Era, *Transportation Research Part B: Methodological*, Vol.81 (2): 631-653.
40. Li, Q. \*, Nie, Y. +, Vallamsundar, S. \*, **Lin, J.**, and Homem-de-Mello, T. (2016) Finding efficient and environmentally friendly paths for risk-averse freight carriers, *Networks and Spatial Economics*, 16(1), 255-275.
41. **Lin, J.** +, Chen, Q. \*, and Kawamura, K. (2016) Logistics Cost and Environmental Impact Analyses of Urban Delivery Consolidation Strategies, *Networks and Spatial Economics*, 16(1), 227-253.
42. Vallamsundar, S. \*, **Lin, J.** +, Konduri, K., Zhou, X., and Pendyala, R. (2016) A Comprehensive Modeling Framework for Transportation-induced Health Exposure Assessment, *Transportation Research Part D: Transportation and the Environment*, 46, 94-113.
43. Vallamsundar, S. \*, **Lin, J.** +, and Chang, Y.T. (2016) Estimating Externality of Population Health Exposure to Near-road Vehicular Emissions, *International Journal of Shipping and Transportation Logistics*, Vol. 8, No.6, 632-652.
44. **Lin, J.** +, Zhou, W. \*, and Wolfson, O. (2016) Electric Vehicle Routing Problem. *Transportation Research Procedia*, Vol. 12, 508-521.
45. **Lin, J.** +, Sasidharan, S. \*, Ma, S. \*, and Wolfson, O. (2016) A Model for Multimodal Ridesharing and Its Analysis, *Proceedings of the 17th IEEE International Conference on Mobile Data Management*, pp.164-173.
46. Kafle, N. \*, Zou, B. +, and **Lin, J.** (2017) Design and Modeling of Crowdsourcing Enabled Relay System for Urban Parcel Delivery, *Transportation Research Part B: Methodological* Vol. 99, 62-82.
47. Foti, L. \*, Wolfson, O. +, **Lin, J.**, and Rishe, N. (2017) The Nash Equilibrium Among Taxi Ridesharing Partners, *Proceedings of the 25th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*, pp. 1-4.
48. Wolfson, O. + and **Lin, J.** + (2017) Fairness versus Optimality in Ridesharing, *Proceedings of the 18th IEEE International Conference on Mobile Data Management*, pp. 118-123.
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52. Zhang, L. \*, Hu, X., Qiu, R., and **Lin, J.** + (2019) Comparison of Real-world Emissions of LDGVs of Different Vehicle Emission Standards on both Mountainous and Level Roads in China, *Transportation Research Part D: Transportation and Environment*, 69, 24-39.
53. Conlon J. \* and **Lin, J.** + (2019) Greenhouse gas emission impact of autonomous vehicle introduction in an urban network, *Journal of Transportation Research Board*, Vol. 2673(5), 142-153.
54. Li, W. and **Lin, J.** + (2019) Special Issue on Urbanization, transportation and air quality in developing countries, *Transportation Research Part D: Transportation and Environment*, Vol. 68, p1.
55. Zhou, W. \* and **Lin, J.** + (2019) An On-demand Same-Day Delivery Service Using Direct Peer-to-Peer Transshipment Strategies, *Networks and Spatial Economics*, Vol.19 (2), 409–443.
56. Shen, H. \*, Zou, B., **Lin, J.** +, and Liu, P. (2020) Modeling Travel Mode Choice of Young People with

Differentiated E-Hailing Ride Service in Nanjing China, *Transport Research Part D: Transportation and Environment*, Vol.78, 102216.

57. Ballare, S. \* and **Lin, J.**<sup>+</sup> (2020) Investigating the use of microhubs and crowdshipping for last mile delivery, *Transportation Research Procedia* Vol. 46, 277-284.
58. Shen, H. \* and **Lin, J.**<sup>+</sup> (2020) Comprehensive Investigation of Crowdshipping Delivery Production with Real-world Data, *Transportation Research Part E: Logistics and Transportation Review*, Vol. 143, 102106.
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62. Foti, L. \*, **Lin, J.** and Wolfson, O.<sup>+</sup> (2021) Optimum versus Nash-equilibrium in taxi ridesharing. *GeoInformatica* 25: 423-451.
63. Patankar, N.<sup>+</sup>, **Lin, J.**<sup>+</sup>, and Patankar, T. (2021) Mileage efficiency of cars. *Journal of Cleaner Engineering and Technology*, Volume 4, 100240.
64. **Lin, J.**<sup>+</sup>, Nie, Y., Kawamura, K. (2022) An Autonomous Modular Mobility Paradigm - Vision Paper. *IEEE Intelligent Transportation Systems Magazine*, doi: 10.1109/MITS.2022.3159484.
65. Shen, H. \*, Namdarpour, F., and **Lin, J.**<sup>+</sup> (2022) Preliminary Investigation of Online Grocery Shopping and Delivery Preference Before, During, and After COVID-19, *Transportation Research Interdisciplinary Perspectives*, Vol.14, 100580.
66. Cheng, X. \* and **Lin, J.**<sup>+</sup> (2024) Is Electric Truck a Viable Alternative to Diesel Truck in Long-haul Operation? *Transportation Research Part D: Transportation and the Environment*, Vol.129, April 2024, 104119.
67. Shen, H. \* and **Lin, J.**<sup>+</sup> (2024) Equitable and stable matching for a two-sided crowdshipping market, *Transportation Research Procedia*, Vol.79, 234-241.
68. Cheng, X. \*, Nie, Y. and **Lin, J.**<sup>+</sup> (2024) An Autonomous Modular Public Transit Service, *Transportation Research Part C: Emerging technologies, Special issue on ISTTT25*, 104746.
69. Shen, H. \* and **Lin, J.**<sup>+</sup> (2024) A Courier's Choice for Delivery Gigs in a Two-sided Crowdshipping System with observed sender-courier preference discrepancy, *Transportation*, available online August 17, 2024

Refereed Journal Publications (under review or revision, or submission in the near future)

70. Yousefibasser, M. \*, Cheng, Y-L \* and **Lin, J.**<sup>+</sup> (under review) Investigation of Transportation Barriers to Healthcare Services in Rural Illinois, *Journal of Transportation Research Board: Transportation Research Records*.
71. Zheng, H., Li, J., **Lin, J.** and Nie, Y.<sup>+</sup> (under review) Exploiting modularity for co-modal passenger-freight transportation, submitted to *Transportation Research Part B: methodologies*.
72. Shafiee, A \* and **Lin, J.**<sup>+</sup>, (in preparation) Investigation of an Alternative Urban Delivery Paradigm Using Microhubs with Crowdshipping, *Transportation Science*.
73. Rastegar Moghaddam, H. \*, Shafiee, A. \*, Cheng, X. \*, and **Lin, J.**<sup>+</sup> (in preparation) Mixed Fleet of Diesel and Electric Trucks In A Mixed Pickup And Delivery Problem With Temperature Effect On Electricity Consumption And Charging, to be submitted to *Transportation Research Part D: Transportation and the Environment*.
74. Shafiee, A. \*, Rastegar Moghaddam, H. \* and **Lin, J.**<sup>+</sup> (in preparation) Urban Parcel Delivery with Mobile Automated Parcel Stations: A Hybrid Clustering, Optimization, and Simulation Approach, *Transportation Research Procedia*.
75. Cheng, X. \*, Zeng, X. \*, Shafiee, A. \*, Rastegar Moghaddam, H. \*, Xie, C., and **Lin, J.** (in preparation) Combined Large-Scale Charging Station Location and Long-Haul Electric Truck Routing Problem Incorporating the Effects of Temperature Variation, *Transportation Research Part D: Transportation*

and the Environment.

76. Cheng, X. \*, Shafiee, A. \*, Rastegar, H. \* and **Lin, J.**<sup>+</sup> (in preparation) On-demand Ridesharing with Autonomous Modular Vehicles, *Journal of Transportation Science and Technology*.

**(b) Refereed Proceedings Articles**

77. Yu, D. \*, Mishra, S. \*, and **Lin, J.**<sup>+</sup> (2006) Visualization of Real Time Bus Schedule Using GIS. *The ASCE Proceedings of the 9<sup>th</sup> International Conference on Application of Advanced Technology in Transportation*, pp. 159-164.
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79. Pu, W.\* and **Lin, J.**<sup>+</sup> (2008) Buses as Probes: Archived v.s. Real-Time AVL. *ASCE Proceedings of the 2008 Advanced Applications of Transportation Technology*, Vol.3, pp. 2005-2016.
80. **Lin, J.**<sup>+</sup> and Ruan, M.\* (2008) An Investigation of Bus Headway Regularity and Service Performance in Chicago Bus Transit System. *ASCE Proceedings of the 2008 Advanced Applications of Transportation Technology*, Vol. 7, pp. 6090-6103.
81. Ruan, M.\* and **Lin, J.**<sup>+</sup> (2008) An Investigation in Synthesis Methods of Generating High Geographic Resolution Freight Data, *Proceedings of the 13<sup>th</sup> International Conference of the Hong Kong Society for Transportation Studies*, pp. 281-289.
82. Auld, J.\* , Rashidi, T.H.\* , and **Lin, J.**<sup>+</sup> (2009) Analysis of National County-level Heavy-duty Freight Truck Emissions, *2009 Transportation Land Use Planning and Air Quality Conference*, pp. 1-10.
83. Ruan, M.\* and **Lin, J.**<sup>+</sup> (2009) Freight Emission Modeling Framework Phase One: Generating County-level Freight Data Using Public Sources, *2009 Transportation Land Use Planning and Air Quality Conference*, pp. 11-18.
84. Szczurek, P.\* , Xu, B., **Lin, J.**, and Wolfson, O.<sup>+</sup> (2009) Machine Learning Approach to Report Prioritization with an Application to Travel Time Dissemination, *Proceedings of the 2<sup>nd</sup> ACM SIGSPATIAL International Workshop on Computational Transportation Science*, pp. 31-36.
85. Vallamsundar, S.\* and **Lin, J.**<sup>+</sup> (2010) U.S EPA Emission Models: MOVES vs MOBILE: A Comparison of GHG and Criteria Pollutants, *Proceedings of the International Conference on Advances in Civil Engineering*, pp. 33-37.
86. Chen, Q.\* , Adida, E., and **Lin, J.**<sup>+</sup> (2010) An Investigation in Real-time Bus Holding Policy, *15<sup>th</sup> HKSTS International Conference on Transportation and Urban Sustainability*, pp. 739 – 746.
87. Szczurek, P.\* , Xu, B., Wolfson, O.<sup>+</sup>, **Lin, J.**, and Rische, N. (2010) Learning the Relevance of Parking Information in VANETs, *Proceedings of the seventh ACM international workshop on Vehicular InterNetworking*, VANET '10, pp. 81-82.
88. Ayala, D.\* , **Lin, J.**, Wolfson, O.<sup>+</sup>, Rische, N., and Tanizaki, M. (2010) Communication Reduction for Floating Car Data based Traffic Information Systems, *Proceedings of the 2<sup>nd</sup> International Conference on Advanced Geographic Information Systems, Applications, and Services*, *GEOProcessing 2010*, pp. 44-51.
89. Ma, S.\* , Wolfson, O.<sup>+</sup>, and **Lin, J.** (2010) IIP: an event-based platform for ITS applications, *Proceedings of the 2nd International Workshop on Computational Transportation Science*, pp. 1-6.
90. Xu, B.<sup>+</sup>, Wolfson, O., and **Lin, J.** (2010) Multimedia Data in Hybrid Mobile P2P Networks, *8th International Conference on Advances in Mobile Computing & Multimedia*, pp. 109-116.
91. **Lin, J.**<sup>+</sup>, Chiu, Y.C., Vallamsundar, S.\* , and Bai, S. (2011) Integration of MOVES and Dynamic Traffic Assignment Models for Fine-Grained Transportation and Air Quality Analyses, *Proceedings of the IEEE Forum on Integrated and Sustainable Transportation Systems (FISTS)*, pp. 176-181.
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95. Vallamsundar, S.\* and **Lin, J.**+ (2014) Using Activity Based Travel Data to Quantify Emissions-to-Population Exposure Relationship from Transportation Sources, *2014 A&WMA Annual Conference & Exhibition*, Vol.4, pp. 2473-2480.
96. Cheng, X.\* , Shen, H.\* , Huang, Y., Cheng, Y.\* , and **Lin, J.**+ (2024) Mitigating Battery Disruption of Electric Vehicles on Highways, *Proceedings of the 2024 IEEE Forum on Integrated and Sustainable Transportation Systems (FISTS)*, pp. 1-6. <https://doi.org/10.1109/FISTS60717.2024.10485588>.
97. Cheng, X.\* and **Lin, J.**+ (2024) Network Equilibrium Modeling for Long-Haul Electric Trucks, *Proceedings of the 2024 IEEE Forum on Integrated and Sustainable Transportation Systems (FISTS)*, <https://doi.org/10.1109/FISTS60717.2024.10485605>.
98. Shafiee, A.\* , Rastegar Moghaddam, H.\* and **Lin, J.**+ (2024) Using Autonomous Modular Vehicle Technology as an Alternative for Last-Mile Delivery, *Proceedings of the 2024 IEEE Forum on Integrated and Sustainable Transportation Systems (FISTS)*, <https://doi.org/10.1109/FISTS60717.2024.10485532>.
99. Shafiee, A.\* , Rastegar Moghadam, H.\* , Merikhipour, M.\* , **Lin, J.**+ (2024) Analyzing Post-Pandemic Remote Work Accessibility through Machine Learning Analysis, *Proceedings of the ASCE International Conference on Transportation & Development 2024*, pp.453-462.
100. Shafiee, A.\* , Asgharpour, S.\* , Askari, S.\* , A. Mohammadian, and **Lin, J.**+ (2024) Understanding Characteristics of Crowdshipping Trip Production: Evidence from Atlanta, *Proceedings of the ASCE International Conference on Transportation & Development 2024*, pp.62-71.
101. Shen, H.\* and **Lin, J.**+ (2025) Optimal Matching Based Double Auction in a Two-sided Crowdshipping Market, to appear on *Proceedings of the 27th IEEE International Conference on Intelligent Transportation Systems*.

### (c) Refereed Book Chapters

102. McDonnell, S.\* and **Lin, J.**+ (2013) “Use of Biodiesel in Railways and Its Impact on Greenhouse Gas Emissions and Land Use”, *Chapter 9, Transport Beyond Oil: Policy Choices for a Multi-Modal Future*, pp. 161-177, ed. J. Renee and W. Fields, ISBN-10:1610910435, ISBN-13:978-1610910439, Island Press.
103. Niemeier, D.+ , Goodchild, A., Rowell, M., Walker, J., **Lin, J.**, and Schweitzer, L. (2013) “Chapter 14 Transportation”, in *Assessment of Climate Change in the Southwest United States*, pp. 297-311, ed. G. Garfin, ISBN 9781610914468, Island Press.
104. Ballare, S.\* and **Lin, J.**+ (2018) Preliminary Investigation of a Crowdsourced Package Delivery System: A Case Study, Chapter 6 in *City Logistics 3: Towards Sustainable and Livable Cities*, ed. Taniguchi and Thompson: 109-128, ISTE Ltd and John Wiley & Sons, Inc.

## 12. Conference Presentations

### (a) by invitation

1. “China Transportation System and Proposed Transportation Studies For Reducing Urban Congestion and Mobile Emissions”, *4th U.S.-China Workshop on Reconciling Economy, Energy, and Environment*, Beijing, China, September 12-14, 2002.
2. “Transferability study of NHTS 2001”, *Federal Highway Administration NHTS Peer Exchange Workshop*, Washington D.C., September 22nd, 2005.
3. “National County-level Commodity Flow Data Generation and Analysis”, *2010 Mississippi Valley Freight Coalition Conference and Annual Meeting, Commodity Profile workshop session*, Cleveland, OH, April 27, 2010.
4. “Modeling Commercial Vehicle Daily Tour Chaining”, *the TRB-SHRP2 Freight Modeling and Data Symposium*, Washington D.C., September 14-15, 2010.
5. “Using MOVES in Particulate Matter Hot-spot Analysis”, *MOVES Model User Group for Project Sponsors Web Conference*, sponsored by FHWA, May 26th, 2011.

6. “An Investigation in the Feasibility of Urban Cooperative Delivery Strategies”, *2011 INFORMS Midwestern Conference, "Analytics for Competitive Advantage"*, the Transportation Cluster, Ohio State University, Columbus, OH, August 1-2, 2011.
7. “Investigation in Transportation Conformity Particulate Matter Hot-spot Air Quality Modeling -Illinois Highway and Arterial Case Studies”, *Workshop on Project Level Applications of EPA's Quantitative PM Hot-spot Guidance, the 2014 Transportation Research Board Annual Meeting*, Washington D.C., January 12-16, 2014.
8. “Electric Vehicle Routing Problem”, *INFORMS Annual Meeting 2015, session on City Logistics and Sustainable Urban Freight Systems*, Philadelphia, PA, November 1-4, 2015.
9. “Green Same Day Delivery with Real-time Demand”, *28th European Conference on Operational Research, session on Green Vehicle Routing*, Poznan, Poland, July 3-6, 2016.
10. “Green Same Day Delivery with Real-time Demand”, *2016 INFORMS, session on Modeling and Analysis of Innovative Mobility Services II*, Nashville, TN, November 13-16, 2016.
11. “Peer-to-Peer Transshipment in On-demand Same Day Delivery”, *INFORMS Annual Meeting 2017, session on Same Day Delivery*, Huston, TX, October 22-25, 2017.
12. “Preliminary Investigation of a Last Mile Delivery Paradigm with Microhubs Coupled With Crowdshipping”, *INFORMS Annual Meeting 2017, session on Recent Innovations in Last-Mile Urban Deliveries*, Huston, TX, October 22-25, 2017.
13. “Fair versus Optimum On-demand Ride-sharing Plan”, *INFORMS Annual Meeting 2017, session on Modeling and Analysis of Emerging Mobility Services I*, Huston, TX, October 22-25, 2017.
14. “A Last Mile Delivery Paradigm Using Microhubs with Crowdshipping”, *INFORMS Annual Meeting 2018, session on Innovations in Last-Mile Urban Package Delivery*, Phoenix, AZ, November 4-7, 2018.
15. “An equitable and stable two-sided matching problem: an application to a two-sided crowd-shipping market”, *INFORMS Annual Meeting 2022, TSL*, Indianapolis, IN, October 16-19, 2022.
16. “Autonomous Modular Vehicle Technology Based Public Transit Paradigm: A Preliminary Investigation”, *the 102<sup>nd</sup> Transportation Research Board Annual Meeting*, workshop on “Moving Together: Promises and Challenges in Co-Modal Passenger-Freight Transport”, Washington D.C., January 8, 2023.
17. “On-demand ridesharing with autonomous modular vehicles”, *INFORMS Annual Meeting 2023, TSL Urban Transportation Cluster*, Phoenix, AZ, October 15-18, 2023.
18. “A fixed-route autonomous modular public transit service”, *EURO 2024, Special Session on Advancing Mobility Towards Sustainable Solutions*, Technical University of Denmark (DTU), Copenhagen, Denmark, June 30–July 3, 2024.
19. “Optimal Matching Based Double Auction in a Two-sided Crowdshipping Market”, *the IEEE International Conference on Intelligent Transportation Systems (ITSC), session on Large-scale Smart Mobility*, Edmonton, Canada, September 24th - 27th, 2024.

**(b) with peer-reviewed full paper submission**

20. Niemeier, D.A.<sup>+</sup>, Hendren, P., Foresman, E., Morey, J.E., Redmond, L., **Lin, J.**, Hicks, J., and Zheng, Y. (1999) Redefining Conventional Wisdom: An Exploration of Auto Ownership and Travel Behavior in the United States, *Conference Proceedings of Personal Travel: The Long and Short of It*, Transportation Research Board, Washington D.C. June 28-July 1, 1999.
21. **Lin, J.** and Niemeier, D.A.<sup>+</sup> (2001) Development of New Driving Cycles: Assessing Regional Driving Characteristics, *Air & Waste Management Association's 2001 Annual Conference and Exhibition (CD ROM)*, paper no. 400, Orlando, Florida, June 24-26, 2001.
22. **Lin, J.**<sup>+</sup>, Srinivasan, S., and Rogers, P. (2004) Urban Transport Infrastructure, Land Use and Air Quality Characteristics: a Comparative Analysis of China and India, *83<sup>rd</sup> Transportation Research Board Annual Meeting*, Washington D.C., January 11-15, 2004.
23. **Lin, J.**<sup>+</sup> and Long, L.\* (2006) What Neighborhood Are You In? Empirical Findings of Relationships between Residential Location, Lifestyle, and Travel. *85<sup>th</sup> Annual Meeting of Transportation Research Board*, paper no. 06-1221, Washington D.C., January 22-26, 2006.

24. **Lin, J.**<sup>+</sup> and Mishra, S.<sup>\*</sup> (2006) Understanding Land Use, Bus Ridership and Air Quality: A Case Study of the North River Industrial Corridor in Chicago. *85<sup>th</sup> Annual Meeting of Transportation Research Board*, paper no. 06-0055, Washington D.C., January 22-26, 2006.
25. Wang, P.<sup>\*</sup>, **Lin, J.**<sup>+</sup>, and Barnum, D. (2006) Data envelopment analysis of bus service reliability using automatic vehicle location data, *85<sup>th</sup> Annual Meeting of Transportation Research Board*, Washington D.C., January 22-26, 2006.
26. Chen, C.<sup>+</sup> and **Lin, J.** (2006) Making an Informed Vehicle Scrappage Decision. *85<sup>th</sup> Annual Meeting of Transportation Research Board*, paper no. 06-1181, Washington D.C., January 22-26, 2006.
27. **Lin, J.**<sup>+</sup> and Yu, D.<sup>\*</sup> (2006) CO hotspot modeling at highway toll facility. *Air & Waste Management Association's 99<sup>th</sup> Annual Conference & Exhibition (CD ROM)*; paper no. 137, New Orleans, June 20-23, 2006.
28. Yu, D.<sup>\*</sup>, Mishra, S.<sup>\*</sup>, and **Lin, J.**<sup>+</sup> (2006) Visualization of Real Time Bus Schedule Using GIS. *The ASCE 9<sup>th</sup> International Conference on Application of Advanced Technology in Transportation*, Chicago, IL, August 13-16, 2006.
29. Pu, W.<sup>\*</sup>, Boyce, D.<sup>+</sup>, and **Lin, J.** (2007) Trip Table Realization and Their Impacts on Assigned Link Flows. *86<sup>th</sup> Annual Meeting of Transportation Research Board*, paper no. 07-1965, Washington D.C., January 21-25, 2007.
30. Long, L.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2007) An Investigation in Household Mode Choice Variability across Metropolitan Statistical Areas for Urban Young Professionals. *11<sup>th</sup> World Conference on Transportation Research*, Berkeley, CA, June 24-28, 2007.
31. **Lin, J.**<sup>+</sup> and Ruan, M.<sup>\*</sup> (2007) Modeling Land Use, Bus Ridership and Air Quality: A Case Study of Chicago Bus Service. *The ASCE 2007 Transportation, Land Use, Planning, and Air Quality Conference*, Orlando, FL, July 9-11, 2007.
32. Pu, W.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2008) Buses as Probes: Archived v.s. Real-Time AVL. *The 2008 ASCE Conference on Advanced Applications of Transportation Technology*, Athens, Greece, May 28-30, 2008.
33. **Lin, J.**<sup>+</sup> and Ruan, M.<sup>\*</sup> (2008) An Investigation of Bus Headway Regularity and Service Performance in Chicago Bus Transit System. *The 2008 ASCE Conference on Advanced Applications of Transportation Technology*, Athens, Greece, May 28-30, 2008.
34. Thakuriah, P.<sup>+</sup>, Yanos, G., **Lin, J.**, Metaxatos, P., Sulo, R., Pu, W.<sup>\*</sup>, and Mbekeani, L. (2008) Including Weather Effects in a Real-Time Traffic Information Environment –Comparison of Alternative Models, *the 15<sup>th</sup> World Congress of Intelligent Transportation Systems*, New York, NY, November 16-20, 2008.
35. Pu, W.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2008) Toward the Use of AVL Buses as Probes for Regular Vehicle Traffic Conditions Estimation: A Literature Review, *the 15<sup>th</sup> World Congress of Intelligent Transportation Systems*, New York, NY, November 16-20, 2008.
36. Ruan, M.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2008) An Investigation in Synthesis Methods of Generating High Geographic Resolution Freight Data, *the 13<sup>th</sup> International Conference of the Hong Kong Society for Transportation Studies*, Hong Kong, December 13<sup>th</sup> -15<sup>th</sup>, 2008.
37. Long, L.<sup>\*</sup>, **Lin, J.**<sup>+</sup>, and Pu, W.<sup>\*</sup> (2009) Model-Based Synthesis of Household Travel Survey Data in Small- and Mid-Size Metropolitan Areas, *88<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 09-3456, Washington, D.C., January 11-15, 2009.
38. Pu, W.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2009) Real-Time Estimation of Urban Street Travel Time Using Buses as Speed Sensors, *88<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 09-2688, Washington, D.C., January 11-15, 2009.
39. Long, L.<sup>\*</sup>, **Lin, J.**<sup>+</sup>, and Proussaloglou, K. (2009) Investigating Contextual Variability in Mode Choice Using Hierarchical Mixed Logit Model, *88<sup>th</sup> Transportation Research Board Annual Meeting*, Washington, D.C., January 11-15, 2009.
40. McDonnell, S.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2009) The Use of Biodiesel in Railways and Its Impact on Greenhouse Gas Emissions and Land Use, *88<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 09- 1537, Washington, D.C., January 11-15, 2009.

41. **Lin, J.** (2009) Investigation of Bus Dispatching Strategies to Improve Headway Regularity, *11<sup>th</sup> International Conference on Advanced Systems for Public Transport*, Hong Kong, July 20-22, 2009
42. Ruan, M. \* and **Lin, J.**<sup>+</sup> (2009) Freight Emission Modeling Framework Phase One: Generating County- level Freight Data Using Public Sources, *2009 Transportation Land Use Planning and Air Quality Conference*, Denver, CO, July 28-29, 2009.
43. Auld, J.\* , Rashidi, T.H.\* , and **Lin, J.**<sup>+</sup> (2009) Analysis of National County-level Heavy-duty Freight Truck Emissions, *2009 Transportation Land Use Planning and Air Quality Conference*, Denver, CO, July 28-29, 2009.
44. Szczurek, P.\* , Xu, B., **Lin, J.**, and Wolfson, O.<sup>+</sup> (2009) Machine Learning Approach to Report Prioritization with an Application to Travel Time Dissemination, *the 2<sup>nd</sup> ACM SIGSPATIAL International Workshop on Computational Transportation Science*, Seattle, WA, Nov. 3<sup>rd</sup>, 2009.
45. Ruan, M.\* , **Lin, J.**<sup>+</sup>, and Kawamura, K. (2010) Modeling Urban Commercial Vehicle Daily Tour Scheduling Using the Texas Commercial Vehicle Survey Data, *89<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 10-3644, Washington, D.C., January 10-14, 2010.
46. Ruan, M.\* and **Lin, J.**<sup>+</sup> (2010) A Synthesis Framework for Generating County Level Freight Data Using Public Sources for Spatial Autocorrelation Analysis, *89<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 10-3963, Washington, D.C., January 10-14, 2010.
47. Pu, W.\* , **Lin, J.**<sup>+</sup>, and Long, L.\* (2010) Estimation of Urban Street Segment Travel Time Using Buses as Real-Time Speed Probes, *89<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 10-0722, National Research Council, Washington, D.C., January 10-14, 2010.
48. Ayala, D.\* , **Lin, J.**, Wolfson, O.<sup>+</sup>, Rische, N., and Tanizaki, M. (2010) Communication Reduction for Floating Car Data based Traffic Information Systems, *the 2<sup>nd</sup> International Conference on Advanced Geographic Information Systems, Applications, and Services, GEOProcessing 2010*, St. Maarten, Netherlands Antilles, February 10-16, 2010.
49. Szczurek, P.\* , Xu, B., Wolfson, O.<sup>+</sup>, **Lin, J.**, and Rische, N. (2010) Prioritizing Travel Time Reports in Peer-to-Peer Traffic Dissemination, *the 7<sup>th</sup> IEEE, IET International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP) 2010*, Newcastle, UK, July 21-23, 2010.
50. Szczurek, P.\* , Xu, B., Wolfson, O.<sup>+</sup>, **Lin, J.**, and Rische, N. (2010) Learning the Relevance of Parking Information in VANETs, *the seventh ACM international workshop on Vehicular InterNETworking*, Chicago, IL, September 24, 2010.
51. Ma, S.\* , Wolfson, O.<sup>+</sup>, and **Lin, J.** (2010) IIP: an event-based platform for ITS applications, *the 2nd International Workshop on Computational Transportation Science*, San Jose, CA, Nov. 2-5, 2010.
52. Xu, B.<sup>+</sup>, Wolfson, O., and **Lin, J.** (2010) Multimedia Data in Hybrid Mobile P2P Networks, *8th International Conference on Advances in Mobile Computing & Multimedia*, Paris, France, November 8-10, 2010.
53. Vallamsundar, S.\* and **Lin, J.**<sup>+</sup> (2010) U.S EPA Emission Models: MOVES vs MOBILE: A Comparison of GHG and Criteria Pollutants, *the International Conference on Advances in Civil Engineering*, Trivandrum, State of Kerela, India, December 20-23, 2010.
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  155. Ballare, S.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2019) A Many-to-many with Split Load Routing Problem, *INFORMS 2019*, Seattle, WA, October 20-23, 2019.
  156. Shen, H.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2020) How's the online grocery shopping behavior reshaped with the influence of COVID-19? Evidence from a preliminary investigation, *the 67<sup>th</sup> North American Meetings of the Regional Science Association International* (virtual), November 9-13, 2020.
  157. Ballare, S.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2021) A Many-to-Many Vehicle Routing Problem with Split Loads, *the International Symposium on Transportation Data & Modelling* (virtual), June 21-23, 2021.
  158. Shen, H.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2021) Preliminary Investigation of Crowd-shipping with Real-world Data: A Case Study of Atlanta, GA, *the International Symposium on Transportation Data & Modelling* (virtual), June 21-23, 2021.
  159. Shen, H.<sup>\*</sup>, Zou, B., **Lin, J.**<sup>+</sup>, and Liu, P. (2021) Travel mode choice of young people with differentiated E-hailing ride services: A case study in Nanjing China, *the International Symposium on Transportation Data & Modelling* (virtual), June 21-23, 2021.
  160. Shen, H.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2021) The behavior prediction of senders and couriers in a real-world crowdshipping system, *INFORMS*, Anahem, CA (virtual), October 24-27, 2021.
  161. Cheng, X.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2022) An Autonomous Modular Vehicle Technology Based Public Transit Paradigm, *INFORMS Annual Meeting 2022, TSL*, Indianapolis, IN, October 16-19, 2022.
  162. Cheng, X.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2023) Long-haul Electric Truck Routing with Coordinated Driver Schedule and Charging Activities: When and Where to Charge, *the 1st International Electric Vehicle Conference*, Edinburgh, UK, June 21-23, 2023.
  163. Cheng, X.<sup>\*</sup>, Nie, Y., and **Lin, J.**<sup>+</sup> (2023) An Autonomous Modular Public Transit Service, *2023 Transportation Science and Logistics Society (TSL) conference, INFORMS*, Chicago, IL, July 23-26, 2023.
  164. Cheng, X.<sup>\*</sup> and **Lin, J.**<sup>+</sup> (2023) Long-haul Electric Truck Routing and Driver Scheduling with Coordinated Charging Scheduling, *2023 Transportation Science and Logistics Society (TSL) conference, INFORMS*, Chicago, IL, July 23-26, 2023.
  165. Shafiee, A.<sup>\*</sup>, Ballare, S.<sup>\*</sup>, and **Lin, J.**<sup>+</sup> (2023) Investigation of an Alternative Urban Delivery Paradigm Using Microhubs with Crowdshipping, *2023 Transportation Science and Logistics Society (TSL) conference, INFORMS*, Chicago, IL, July 23-26, 2023.
  166. Zheng, H.<sup>\*</sup>, Li, J., **Lin, J.**<sup>+</sup>, and Nie, Y.<sup>+</sup> (2023) Exploiting modularity in co-modal passenger-freight transportation: a market-driven approach, *2023 Transportation Science and Logistics Society (TSL) conference, INFORMS*, Chicago, IL, July 23-26, 2023.
  167. Yousefibasser, M.<sup>\*</sup>, Askari, S., **Lin, J.**<sup>+</sup> (2024) Exploring determinants of mode choice for medical trips in urban areas: evidence from the 2017 U.S. National Household Travel Survey, submitted to

- the Minority Health Conference*, School of Public Health, UIC, Chicago, IL, April 4, 2024.
168. Cheng, X. \*, Shafiee, A. \*, Rastegar, H. \*, and **Lin, J.** (2024) An On-Demand Ridesharing Service with Autonomous Modular Vehicles, *2024 Global Symposium on Mobility Innovation, Center for Connected and Automated Transportation (CCAT) poster competition*, Ann Arbor, MI, May 21-22, 2024.
  169. Cheng, Y. \* and **Lin, J.**+ (2024) On-road heavy-duty truck emissions in Illinois before and after COVID-19 in 2019 and 2021, *117th Annual Conference and Exhibition of the Air & Waste Management Association*, Calgary, Canada, June 24- 27, 2024.
  170. Askari, S., Yousefibasser, M. \*, Mohammadian, A., Peiravian, F., and **Lin, J.**+ (2024) Assessing how the built environment shapes the benefits of shared e-bikes, *TRB Transportation Symposium on Environment, Energy, and Livable Economies*, Denver, CO, August 25-28, 2024.
  171. Cheng, Y. \* and **Lin, J.** (2024) On-road heavy-duty truck emissions in Illinois before and after COVID-19 in 2019 and 2021, *TRB Transportation Symposium on Environment, Energy, and Livable Economies*, Denver, CO, August 25-28, 2024.
  172. Rastegar, H. \*, Shafiee, A. \*, Cheng, X. \* and **Lin, J.**+ (2024) A Two-Stage Stochastic Model for Mixed-Fleet Pickup and Delivery Routing Problem with Temperature Considerations, *INFORMS Annual Meeting*, sponsored by the TSL: Freight cluster, Seattle, WA, October 20-23, 2024.
  173. Shafiee, A. \*, Cheng, X. \*, Rastegar, H. \*, and **Lin, J.**+ (2024) Using Autonomous and Modular Vehicle Technology for Integrated Passenger and Freight Transportation, *INFORMS Annual Meeting, session on Integrating Emerging Technologies for Sustainable Transportation, sponsored by the Decision Analysis Society Cluster*, Seattle, WA, October 20-23, 2024.
  174. Cheng, X. \*, Shafiee, A. \*, Rastegar, H. \* and **Lin, J.**+ (2024) Optimizing Two-Echelon Autonomous Modular Vehicle Ridesharing and Consolidation Using Reinforcement Learning, *INFORMS Annual Meeting, session on Integrating Emerging Technologies for Sustainable Transportation, sponsored by the Decision Analysis Society Cluster*, Seattle, WA, October 20-23, 2024.
  175. Rastegar Moghaddam, H. \*, Shafiee, A. \*, Cheng, X. \*, and **Lin, J.**+ (2025) Trade-offs between Electric and Diesel Trucks in Regional Pickup and Delivery Operations, submitted to *the 2nd International Electric Vehicle Conference*, Stuttgart, Germany, May 14-16, 2025.
  176. Rastegar Moghaddam, H. \*, Shafiee, A. \*, Cheng, X. \*, and **Lin, J.**+ (2025) Trade-offs between Electric and Diesel Trucks in Regional Pickup and Delivery Operations, submitted to *the Transportation Research Symposium 2025*, Rotterdam, the Netherlands, May 25-28, 2025.

### 13. Invited Presentations at Other Professional Meetings

1. “Research on Transportation and Air Quality”, *Institute for Environmental Science and Policy (IESP) annual external advisory board meeting*, Chicago, IL, September 17, 2003.
2. “Driving Behavior and Vehicular Emission Modeling”, *Chicago Area Transportation Modeling User Group (CATMUG)*, January 7, 2004.
3. “Transportation Program and Research at University of Illinois at Chicago”, *Institute of Transportation Engineering (ITE) Illinois Section student chapter meeting*, Chicago, IL, September 28, 2005.
4. “Toll Plaza CO Screening Model for Illinois State Toll Highway Authority”, *Illinois Environmental Protection Agency*, Springfield, IL, October 27, 2005.
5. “Model-based Synthesis of Geographically Variable Household Travel Data in Small- and Mid-size Metropolitan Areas”, *Chicago Area Transportation Modeling User Group (CATMUG)*, August 1, 2007.
6. “Bus Probe Based Urban Travel Time Prediction”, *Chicago Area Transportation Modeling User Group (CATMUG)*, May 7, 2008.
7. “Bus Probe Based Urban Travel Time Prediction”, *Office of Emergency Management and Communications, City of Chicago*, June 25, 2008.
8. “Impact of ethanol blending fuel in Municipal Air Quality”, *China National Energy Administration delegation, sponsored by the U.S. Grains Council*, Chicago, August 28, 2018.

9. “Climate Chang, Air Quality, and Electrification of Transportation”, *UIC Alumni Exchange*, March 9, 2022.
10. “Electrification of Long-haul Trucks”, *Resilient Rockford Region (R3) Tech Talk*, August 31, 2023.
11. “IDOT Patient Medical Trip Study”, *Presentation to Illinois Region 8 Human Services Transportation Plan (HSTP)*, June 13, 2024.

## 14. Edited Meeting Proceedings

1. **Lin, J.**, Pu, W., and W.G. Zyznieuski (2007) *Proceedings of the Mobile Source Air Toxics Peer Exchange Meeting, Monticello, IL, October 5-6, 2006*, prepared for Illinois Department of Transportation and Illinois Center for Transportation, Report No. FHWA-ICT-002-2007.
2. **Lin, J.**, Zyznieuski, W.G., and Pu, W. (2008) *Proceedings of the Particulate Matter Hot Spot Analysis Peer Exchange Meeting, Monticello, IL, October 23-24, 2007*, prepared for Illinois Department of Transportation and Illinois Center for Transportation, Report No. FHWA-ICT-08-015.

## 15. Published Technical Reports

1. **Lin, J.**, W. Pu, and W.G. Zyznieuski (2007) *Proceedings of the 1<sup>st</sup> Mobile Source Air Toxics Peer Exchange Meetings*, Monticello, IL, October 5-6, 2006. Prepared for Illinois Department of Transportation and Illinois Center for Transportation, Report No. FHWA-ICT-002-2007.
2. **Lin, J.**, W.G. Zyznieuski, and W. Pu (2008) *Proceedings of the Particulate Matter Hot Spot Analysis Peer Exchange Meeting*, prepared for Illinois Department of Transportation and Illinois Center for Transportation, Report No. FHWA-ICT-004-2008.
3. Horowitz, A., Vonderembse, M., Dobrzykowski, D., Lindquist, P., Kawamura, K., **Lin, J.**, Ruan, M., Guo, J., Wittwer, E., and Adams, T. (2011) *Transportation Profiles for MVFC Commodities*, Report No. MAFC-10.
4. **Lin, J.** and Q. Chen (2013) *Environmental and Energy Benefits of Freight Delivery Consolidation in Urban Areas*, prepared for the National Center for Freight & Infrastructure Research and Education, Report No. CFIRE 03-19.
5. **Lin, J.** and S. Vallamsundar (2013) *Transportation Conformity Particulate Matter Hot-Spot Air Quality Modeling*, prepared for Illinois Department of Transportation, Illinois Center for Transportation, Report No. FHWA-ICT-13-024.
6. **Lin, J.**, Y. Nie, T. Homem-de-Mello, Q. Li, and Q. Chen (2015) *Freight Routing for Efficient, Sustainable and Reliable Travel*, prepared for the National Center for Freight & Infrastructure Research and Education, Report No. CFIRE 04-12.
7. **Lin, J.**, Cheng, Y-L, Cheng, X., Shen, H., Pawar, A., and Koziel, K. (2024) *Development of Commercial Vehicle Emission Inventory and Analysis*, prepared for Illinois Department of Transportation, Illinois Center for Transportation, Report No. FHWA-ICT-24-002.

## 16. Funding History

[Total: \$18,094,001; as PI or co-PI only: \$9,455,531]

1. PI, “Combining and Communicating Air Quality Data for Community Empowerment”, pending, U.S. Environmental Protection Agency, \$1,250,000, January 2025 – December 2027.
2. PI, “Development of a Project-Scale Air Quality Screening Tool”, Illinois Center for Transportation (ICT), \$300,000, August 16, 2024 – February 15, 2027.
3. Co-I, “Community-Driven Air Quality and Environmental Justice Assessment”, PI: S. Erdal, US Department Of Commerce (National Institute of Standards and Technology), \$2,000,000, October 2023 – September 2024.
4. Co-PI, “Collaborative Research: NNA Research: Infrastructure Interdependencies in the Arctic: Reframing the Urban-Rural Interface”, PI: L. Spearing, National Science Foundation, \$985,831, September 2023 – August 2026

5. PI, "Improving Transportation Services for Medical Patients and Veterans", Illinois Department of Transportation, \$331,318, August 2023 – August 2025.
6. Co-PI, "Electrification, Emissions, Exposure and Equity: Community-Driven Scenarios for Freight Vehicle Electrification", PI: J. Cidell (UIUC), U.S. Environmental Protection Agency, \$991,796, July 2023 – June 2026.
7. Co-PI, "Tier 1 UTC: Center for Freight Transportation for Efficient and Resilient Supply Chain (FERSC)", PI: B. Zou, U.S. Department of Transportation University Transportation Center Consortium, \$1,000,000, June 2023 – June 2028.
8. Co-I, "CBET 2115453: SRS RN: Convergent Innovations in Regional Circular Economies (CIRCULAR)", PI: T. Theis, National Science Foundation, \$149,994, December 2021 – November 2022.
9. PI, "Development of Commercial Vehicle Emission Inventory and Analysis", Illinois Center for Transportation (ICT), \$500,000, August 16, 2021 – February 15, 2024
10. PI, "CMMI 2127677: EAGER: Collaborative Research: An Autonomous Modular Vehicle Technology-based Multifaceted Mobility Service Paradigm – A Proof-of-Concept Study", co-PI: K. Kawamura, National Science Foundation (NSF), \$300,000 (UIC share: \$200,000; collaborative PI: Y. Nie, Northwestern University, \$100,000), August 16, 2021-May 15, 2024.
11. PI, "MY-AIR: Monitoring Your Air-pollution Risk - A Mobile App", co-PIs: O. Wolfson, R. Molokie, UIC DPI Cycle 1 grant, \$100,000, June 1, 2019 – November 30, 2022.
12. Co-PI, "Human Health Impacts of Higher Ethanol Blends in 5 Capitals", PI: S. Mueller, U.S. Grains Council, \$110,000, July 2018 – December 2018.
13. Co-I, "Higher Blend Level Impacts on Emissions and Climate in Five Cities", PI: Mueller, U.S. Grains Council, \$210,000, May 2017 – September 2018.
14. PI (UIC subaward), "PFI:BIC Enhancing Intelligence of CROwdsourced Urban Delivery (CROUD)", co-PI: O. Wolfson, National Science Foundation (NSF), \$1,000,000, PI: Y. Nie (Northwestern University), co-PIs: J. Lin (UIC), O. Wolfson (UIC), A. Stathopoulos (NU), J. Schummer (NU), January 2016 - December 2020.
15. PI, "Enabling On-line Logistics Services Auction Platform (OLSAP): Optimal Eco-Routing Strategies", co-PI: Y. Nie (Northwestern University), US DOT National Center for Freight and Infrastructure Research and Education (CFIRE), \$111,009, August 2014- September 2015.
16. Co-PI, "CCF-1216096 ICES: Small: Collaborative Research: Dynamic Parking Assignment Games", PI: B. DasGuptar, National Science Foundation (NSF), \$200,000, June 2012 - May 2015.
17. Co-PI, "Building Urban Resilience and Sustainability (BURST): Integrating Adaptive Infrastructure Systems with Institutional and Ecological Functions", PI: T. Theis, UIC Areas of Excellence Award, \$200,000, January 2012 – January 2014.
18. Co-I, "University Center for High Speed Rail" (led by UIUC), UIC COE PI: Shabana, U.S. Department of Transportation, \$460,000, January 2012 – January 2014.
19. Co-I, "Supply Chain and Logistics Management Center", PI: Pagano, UIC College of Business and Administration Dean's Award, \$500,000, August 2011 – August 2016.
20. PI, "Freight Routing for Efficient, Sustainable and Reliable Travel", co-PI: Y. Nie (Northwestern University), US DOT National Center for Freight and Infrastructure Research and Education (CFIRE), \$149,905, February 2011- December 2013.
21. PI, "Transportation Conformity Particulate Matter Hot-Spot Air Quality Modeling", Illinois Center for Transportation (ICT), \$73,739, November 2010 – June 2013.
22. Co-PI, "Post-Implementation Evaluation of Emissions Benefits of CMAQ Projects, Phase II", PI: P. Thakuria, Chicago Metropolitan Agency for Planning (CMAP), \$100,000, July 2010 – June 2011.
23. Co-PI, "IIS-0957394: EAGER: The IntelliDrive Database Management System", PI: O. Wolfson, National Science Foundation (NSF), \$100,000, January 2010 – December 2010.
24. PI, "Environmental and Energy Benefits of Freight Delivery Consolidation in Urban Areas", co-PI: K. Kawamura, US DOT National Center for Freight and Infrastructure Research and Education (CFIRE), \$77,069, January 2010 – December 2012.
25. Co-PI, "Partnership in Freight Planning and Modeling 2", PI: K. Kawamura, US DOT National Center for Freight and Infrastructure Research and Education (CFIRE), \$200,000, January 2012-



January 2016.

26. PI, "Strategic Highway Research Program 2 C10: Partnership to Develop an Integrated, Advanced Travel Demand Model and Fine-Grained, Time-Sensitive Network", Transportation Research Board, \$104,762, September 2009 – October 2013.
27. PI, "Mississippi Valley Commodity Flow Project", co-PI: K. Kawamura, Midwest Freight Coalition (formerly Mississippi Valley Freight Coalition), \$49,887, August 2009-February 2011.
28. Co-PI, "Development of Freight Planning Support System for Northern Illinois", PI: K. Kawamura, Illinois Department of Transportation (IDOT), \$178,734, March 2009 – June 2011.
29. Co-PI, "Post-Implementation Evaluation of Emissions Benefits of CMAQ Projects, Phase I", PI: P. Thakuriah, Chicago Metropolitan Agency for Planning (CMAP), \$122,304, July 2008 – June 2009.
30. Co-PI, "Partnership in Freight Planning and Modeling", PI: K. Kawamura, funded by the designated US DOT National Center for Freight and Infrastructure Research and Education (CFIRE), \$800,000, September 2007-September 2015.
31. Co-PI, "Design of a Travel Time Information System for Dynamic Content Dissemination & Management", PI: P. Thakuriah, NAVTEQ (now Here.com), \$35,000, September 2007-December 2007.
32. PI, "Project level PM2.5 and PM10 hotspot analysis: a peer exchange", Illinois Center for Transportation (ICT), \$45,000, July 2007 – February 2008.
33. PI, "Documenting Mobile Source Air Toxics in NEPA documents: A Midwest Peer Exchange", Illinois Center for Transportation (ICT), \$37,679.24, July 2006 – February 2007.
34. Co-I, "DGE-0549489 IGERT: Integrated Graduate Education and Research Training (IGERT) in Computational Transportation Science", PI: Wolfson, National Science Foundation (NSF), \$3,097,976, June 2006 – June 2015.
35. Co-I, "Center for Supply Chain Management and Logistics", PI: Pagano, UIC 2010 Seed Grant, \$75,000, January 2006 – December 2006.
36. PI "Development of Mobile Source Pollution Screening Model for Air Quality Assessment of the Illinois State Toll Highway System", Illinois State Toll Highway Authority, \$91,352, December, 2004 – December, 2006.
37. Co-PI, "Transferability of Household Travel Survey Data in Calibrating and Validating Travel Forecasting Models", PI: S. McNeil, Federal Highway Administration (FHWA), \$656,444, November 2004 – June 2008.
38. PI, "Assessing Effectiveness of Alternative Fuel Vehicle Fleet Replacement in Local Government: A Multidisciplinary Analysis of DuPage County Forest Preserve's Mandate", co-PIs: E. Welch and A. Mohammadian, Institute for Environmental Science and Policy, UIC, \$15,000, June 2004 – June 2005.
39. PI, "Incorporation of metacognitive learning in transportation engineering curriculum", University of Illinois Chicago 2003-2004 Curriculum and Instructional Grants, \$10,000, June 2004 – June 2005.
40. Co-I, "UTC – Chicago Transit Authority Research Grant", PI: McNeil, '01-'05, Welch and Sriraj, '05-'08, Chicago Transit Partnership Program, \$1,365,500, January 2001 – February 2010.

## 17. Teaching Experience

### Undergraduate required courses:

CME 302 Introduction to Transportation Engineering

Provide a broad overview of the role of transportation in the economy and in society; introduce highway traffic theories and transportation planning principles for solving transportation problems; and introduce traffic engineering approaches to highway capacity and level of service analysis.

CME 396 Senior Design I

Basic engineering design principles and procedures of various civil infrastructures; ethical engineering design practice; basic experimental design principles; quantitative analyses on civil systems including system analysis and sample data (statistical) analysis; and practice effective communication about engineering design.

Undergraduate/graduate elective courses:

CME 494 Public Transit Operations and Technology

Overview of the role of public transportation in the economy and in society; basic planning and operations concepts of public transportation; performance measures of public transportation service; and applications of intelligent transportation technology (ITS) in public transportation planning and management.

CME 441 City Logistics

Overview of state-of-the-practice in supply chain and logistics management; design and operation of city logistics, logistics costs, basic analytical models of city logistics, and emerging last-mile delivery paradigms.

Graduate courses:

CME 507 Sustainable Urban Transportation Systems

Concepts of transportation sustainability and life cycle analysis techniques; Basic terminology, regulations, and analytical framework of transportation energy and air quality; transportation emissions and energy models; and various data analysis techniques.

CME 555 Transportation Systems Analysis

The main objective of this course is to integrate the fundamental tools of systems analysis, including those of microeconomic theory, systems optimization, networks, evaluation and decision making into transportation engineering and planning. The course aims to develop systems approach and a critical economic perspective to transportation issues and problems, and to explore a set of quantitative methods that are valuable to transportation analysis and evaluation.

ENGR 494 Autonomous Vehicles (team taught)

This interdisciplinary course will introduce the technical, economic, societal and ethical issues that autonomous vehicles bring about. It covers a broad range of topics, taught by faculty in the following departments: Civil and Materials Engineering, Computer Science, Electrical and Computer Engineering, Mechanical and Industrial Engineering, philosophy, Public Health, and Urban Planning.

## 18. Visiting scholars hosted

*Dr. Longhai Yang*, Associate Professor, Department of Traffic Engineering, School of Transportation Science and Engineering at Harbin Institute of Technology, December 2011 – December 2012.

## 19. Student Supervision

### (a) Post-doctoral Fellow Supervised

*Dr. Simon McDonnell* (August 2007, urban planning and policy, University College Dublin, Ireland),

- Research topic: *Investigation of the Use of Biodiesel in Railways and Its Impact on Emissions and Land Use*, August 2007 – July 2008.
- Current employment (December 2017 - present): Director of Research and Strategic Analysis at New York State Homes and Community Renewal.

### (b) Ph.D. supervised as primary thesis advisor

*Dr. Liang Long* (PhD in Civil Engineering at UIC, December 2007):

- Thesis title: "Model-based Synthesis of Geographically Variable Household Travel Data in Small- and Mid-size Metropolitan Areas".
- Current employment (September 2015 - present): Senior Manager, Marketing Analytics, Marriott International, Bethesda, MD.

*Dr. Wenjing Pu* (PhD in Civil Engineering at UIC, August 2008):

- Thesis title: "Bus Probes in Real-Time Urban Street Travel Time Prediction".
- Current employment (August 2023-present): Investment Operations Specialist – Transport, Asian Infrastructure Investment Bank, Beijing, China

*Dr. Minyan Ruan* (PhD in Civil Engineering at UIC, August 2010):

- Thesis title: "Investigation of National and Regional Freight Data Needs and Urban Freight Delivery Patterns".
- Currently homemaker. Prior employment (July 2010 – October 2013): Transportation Modeler, Pima Association of Governments, Tucson Metropolitan Planning Organization, AZ.

*Dr. Qin Chen* (PhD in Civil Engineering at UIC, May 2014):

- Thesis title: " Sustainable Last-mile Solutions: Urban Freight Consolidation and Eco-routing Strategies".
- Current employment (November 2013 - present): Engineering manager II, HERE.com (formerly Navteq).

*Dr. Suriyapriya Vallamsundar* (PhD in Civil Engineering at UIC, August 2014):

- Thesis title: "Integrated Framework for Evaluating Population Health Exposure to Emissions from Transportation Sources".
- Current employment (March 2021 - present): Senior project manager, Trinity Consultant, Inc.

*Dr. Wei Zhou* (PhD Civil Engineering at UIC, August 2016):

- Thesis title: "Green Vehicle Routing Problems in the New Mobility Era".
- Current employment (July 2020 – present): Data Scientist, LinkedIn.

*Dr. Sudheer Ballare* (PhD Civil Engineering at UIC, May 2020):

- Thesis title: "Investigation in Crowdshipping Enabled Urban/Last-mile Delivery Paradigms",
- Current employment (February 2023 – present): Sustainability Program Manager, Google, Inc.

*Dr. Hui Shen* (PhD Civil Engineering at UIC, December 2022),

- Thesis title: "Investigation of Senders' and Couriers' preferences in a two-sided crowdshipping market."
- Current employment (April 2023 - present): Research Associate, Freight modeling group, Argonne National Laboratory.

*Dr. Xi Cheng* (PhD Civil Engineering at UIC, December 2024)

- Thesis title: Emerging Vehicle Technology Enabled Transportation Services: Autonomous and Modular Public Transit and Long-haul Electric Truck
- Current employment (August 2024 – present): postdoctoral researcher, Cornell University.

### **(c) Ph.D. supervised as thesis co-advisor:**

*Dr. Piotr Szczurek* (PhD in Computer Science at UIC, August 2012):

- Thesis title: "A Platform for Estimating the Relevance of Information in VANET Application" (primary advisor: Dr. Wolfson).
- Current employment (August 2012 - present): associate professor, Computer Science, Lewis University, Romeoville, IL.

*Dr. Shuo Ma* (PhD in Computer Science at UIC, August 2014):

- Thesis title: " IIP: An Information Platform for Intelligent Transportation System and Its Applications" (primary advisor: Dr. Wolfson).
- Current employment (November 2015 - present): Software Engineer, Google, Inc., San Francisco, CA.

*Dr. Daniel Ayala* (PhD in Computer Science at UIC, December 2015):

- Thesis title: "Spatio-temporal Matching for Urban Transportation Applications" (primary advisor: Dr. Wolfson).

- Current employment (August 2024- present): clinical assistant professor, Computer Science, UIC

*Yi-Ling Cheng* (May 2025 - ) School of Public Health. TBD

**(d) Current Ph.D. students supervised as thesis advisor:**

*Amir Shafiee* (August 2022 – present), thesis title TBD.

*Hanieh Hastegar* (August 2023 – present), thesis title TBD

*Maryam Yousefibasari* (August 2023 – present), thesis title TBD

*Jialu Yang* (August 2024 – present), thesis title TBD

**(e) M.S. supervised as thesis advisor**

*Santosh Mishra* (MS in Civil Engineering at UIC, January 2005):

- Thesis title: "Quantifying Air Quality Benefits of Transit Ridership Improvement: A GIS based approach".
- Current employment (January 2016 – present): Director, ARCADIS, IBI Group, Boston, MA; Chair, Transit Innovation Program (IDEA)- Transportation Research Board.

*Dan Yu* (MS in Civil Engineering at UIC, December 2006):

- Thesis title: "Development of a CO hot-spot screening model for toll highway facilities".
- Current employment (September 2015 - present): Director, AI Analytics & Engineering, KPMG US, Orange County, CA.

*Joshua Auld* (MS in Civil Engineering at UIC, May 2007):

- Thesis title: "Analysis of National County-level Heavy-duty Freight Truck Emissions".
- Current employment (December 2014 - present): Computational Transportation Scientist, Argonne National Laboratory, IL.

*Peng Wang* (MS in Civil Engineering at UIC, May 2007):

- Thesis title: "Bus Route Schedule Adherence Assessment Using Automatic Vehicle Location (AVL) Data".
- Current employment (2017 - present): StepStone Group, Beijing Office, China.

*Sandeep Sasidharan* (MS in Civil Engineering at UIC, December 2016):

- Thesis title: "Urban Congestion Mitigation through Ridesharing and Parking Navigation".
- Current employment (September 2023-present): Senior engineer, Hyundai America Technical Center, Ann Arbor, MI.

*James Conlon* (MS in Civil Engineering at UIC, May 2018):

- Thesis title: "Modeling Environmental Performance of Autonomous Vehicles".
- Current employment (August 2018 – present): Transportation modeler, CDM Smith, Lisle, IL

*Yi-Ling Cheng* (August 2022 – May 2025), thesis title TBD.

**(f) MS supervised as thesis co-advisor:**

*Marco Miglionico* (MS in Computer Science, 2018):

- Thesis title: "Air quality monitoring and inference using co-training model" (primary advisor: Dr. Wolfson).
- Current employment (August 2018 – present): AI Architect, Stanley Black & Decker, Inc., Atlanta, GA

*Luca Dibattista* (MS in Computer Science, May 2022):

- Thesis title: “Deep learning inference of personalized air pollution intakes” (primary advisor: Dr. Wolfson).
- Current employment (June 2022 – present): Uber, Denver, CO.

*Gabriele Bozzetto* (MS in Computer Science, December 2024)

- Thesis title: “AI-Driven Indoor Environmental Monitoring for Smart Building Using Graph Neural Networks”
- Current employment (January 2025 – present): research engineer, Amazon AWS, Dublin, Ireland.

### (g) Visiting students supervised

*Dr. Xiaoyu Tan* (Ph.D., Dalian Maritime University, August 2012):

- Thesis research at UIC (August 2010 - August 2011): "Land Use and Transportation Emissions in Chinese Cities".
- Current employment (August 2011 - present): Research staff, Transport Planning and Research Institute, Ministry of Transportation, China.

*Johanna Seebergs* (M.S., Chalmers University of Technology, Gothenburg, Sweden, December 2013):

- Thesis research at UIC (March 2013 - August 2013): "Environmental Aspects of Freight Transportation".
- Current employment (January 2014 - present): Forsmarks Kraftgrupp, AB, Vattenfall, Sweden

*Dr. Lanyi Zhang* (Ph.D., Fujian University of Forestry and Agriculture, December 2019):

- Research at UIC (December 2017 – March 2019): “Transportation Management and Air Quality Modeling Using PEMS”.
- Current employment (March 2022 – present): Associate Professor, College of Transportation and Civil Engineering, Fujian University of Forestry and Agriculture

### (h) Other thesis committees

Name	Thesis chair	Year	Degree	Program
Dong Zhai	S. McNeil	2004	M.S.	Civil Engineering
Stacey Meekins	S. McNeil	2005	M.S.	Urban Planning
Karen Schweiss	A. Mohammadian	2005	M.S.	Civil Engineering
Saurav Chakrabarti	A. Mohammadian	2006	M.S.	Civil Engineering
Todd Bapton	A. Mohammadian	2007	M.S.	Civil Engineering
Sadayuki Yagi	A. Mohammadian	2007	Ph.D.	Civil Engineering
Daisuke Mizusawa	S. McNeil	2007	Ph.D.	Urban Planning
Amy Landis	T. Theis	2007	Ph.D.	Environmental Engineering
Yongping Zhang	A. Mohammadian	2008	Ph.D.	Civil Engineering
Tianyi Ma	M. Wang	2008	M.S.	Civil Engineering
Emily Ziring	P.S. Sriraj	2009	M.S.	Urban Planning
Mahmoud Javanmardi	A. Mohammadian	2009	M.S.	Civil Engineering
Martina Frignani	A. Mohammadian	2009	M.S.	Civil Engineering
Amir Samimi	A. Mohammadian	2010	Ph.D.	Civil Engineering
Laya Rashidi	K. Kawamura	2010	M.S.	Urban Planning
Taha Rashidi	A. Mohammadian	2010	Ph.D.	Civil Engineering
Joshua Auld	A. Mohammadian	2011	Ph.D.	Civil Engineering
Leon Stenneth	O. Wolfson, P. Yu	2013	Ph.D.	Computer Science
Zahra Pourabdollahi	A. Mohammadian	2015	Ph.D.	Civil Engineering
Behzad Karimi	A. Mohammadian	2015	Ph.D.	Civil Engineering

Qianfei Li (Northwestern Univ.)	Y. Nie (Northwestern Univ.)	2015	Ph.D.	Civil Engineering at Northwestern Univ)
Yong Wang	L. Li	2015	Ph.D.	Mechanical Engineering
Mehran Fasihozaman Langerudi	A. Mohammadian	2015	Ph.D.	Civil Engineering
Ahmadreza Talebian	B. Zou	2016	Ph.D.	Civil Engineering
Maryam Shekarrizfard (McGill University)	M. Hatzopoulou (now U. Toronto)	2016	Ph.D.	Civil and Environmental Engineering
Tom Brecheisen	T. Theis	2017	Ph.D.	Civil Engineering
Nabin Kafle	B. Zou	2017	Ph.D.	Civil Engineering
Luca Foti	O. Wolfson, Paolo Cremonesi (U. Milan)	2017	M.S.	Computer Science
Sara Niakian	A. Mohammadian	2017	M.S.	Civil Engineering
Ramin Shabanpour	A. Mohammadian	2018	Ph.D.	Civil Engineering
Nima Golshani	A. Mohammadian	2018	Ph.D.	Civil Engineering
Giovanni Monna	O. Wolfson, Elena Baralis (U. Turin)	2018	M.S.	Computer Science
Marco Miglionico	O. Wolfson, M. Matteucci (PolyU. Milan)	2018	M.S.	Computer Science
Marco Mele	O. Wolfson, Risso (U. Turin)	2018	M.S.	Computer Science
Mohamadhossein Noruzoliae	B. Zou	2018	Ph.D.	Civil Engineering
Yu-Kai Huang	R. Jones (now U. Utah)	2019	Ph.D.	Public Health
Fatemeh Nazari	A. Mohammadian	2019	Ph.D.	Civil Engineering
Ran Tu (U. Toronto)	M. Hatzopoulou (U. Toronto)	2020	Ph.D.	Civil and Environmental Engineering
Yuntian Ge	Lin Li	2020	Ph.D.	Mechanical and Industrial Engineering
Homa Taghipour	A. Mohammadian	2020	Ph.D.	Civil Engineering
Monique Stinson	A. Mohammadian	2020	Ph.D.	Civil Engineering
Luca Dibattista	O. Wolfson, E. Patti (PolyU. Milan)	2021	M.S.	Computer Science
Ali Shamshiripour	A. Mohammadian	2021	Ph.D.	Civil Engineering
Ehsan Rahimi	A. Mohammadian	2021	Ph.D.	Civil Engineering
Amir Bahador Parsa	A. Mohammadian	2021	Ph.D.	Civil Engineering
Tanvir Ahamed	B. Zou	2021	Ph.D.	Civil Engineering
Mohamed-Badhrudeen Mohamed-Rawoof	S. Derrible	2021	Ph.D.	Civil Engineering
Ali Movahedi	S. Derrible	2022	Ph.D.	Civil Engineering
Pipatphon Lapamonpinyo	S. Derrible	2022	Ph.D.	Civil Engineering
Ahmad Nafakh	A. Mohammadian	2023	Ph.D.	Civil Engineering
Limon Barua	B. Zou	2023	Ph.D.	Civil Engineering
Nahid Parvez Farazi	B. Zou	2023	Ph.D.	Civil Engineering
M.J. Javadinasr	A. Mohammadian	2023	Ph.D.	Civil Engineering
Amir Davatgari	A. Mohammadian	2024	Ph.D.	Civil Engineering
Pooria Choobchian	B. Zou	2024	Ph.D.	Civil Engineering
Hongyu Zheng (Northwestern Univ.)	Y. Nie (Northwestern Univ.)	2024	Ph.D.	Civil Engineering
Daniel Perez	B. Zou	2024	M.S.	Civil Engineering

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Gabriele Bozzetto	O. Wolfson, E. Di Nitto (PolyU. Milan)	2024	M.S.	Computer Science
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**(i) Non-thesis MS students supervised**

Bui Lien, Civil Engineering, UIC (2006)  
Tom Brecheisen, Civil Engineering, UIC (2008)  
Ragheed Alfarra, Civil Engineering, UIC (2017)  
Vinay Indrajit Chavan, Computer Science, UIC (2021)  
Mitchell Horn, Civil Engineering, UIC (2021)  
Navaneetha Krishnan Murugadoss, Environmental Engineering, UIC (2022)  
Mingyu Huang, Civil Engineering, UIC (2022)  
Ajay Mahadev Pawar, Management Information Systems, UIC (2022)  
Boyang Cui, Civil Engineering, UIC (2024)  
Katie Gross, Public Affairs, UIC (2024)  
Divesha Goyal, Public Affairs, UIC (2024)

**(j) Undergraduate Student Advising and Supervision**

William Gallery, School of Engineering and Applied Sciences, Harvard University, Summer 2002  
Undergraduate research “Bus Rapid Transit Feasibility Study in Chengdu, China”

Kanittha Tambunlertchai, School of Engineering and Applied Sciences, Harvard University, Spring and summer 2003  
Undergraduate research “Bus Rapid Transit: Costs and Benefits”

Yiting Liu, Applied Mathematics, Harvard University, Summer 2003  
Undergraduate research, “Transportation Infrastructure and Air Quality Statistics in China”

Lauren Zavadsky, Civil Engineering, UIC, Fall 2004  
Honors College project “Energy Consumption of Alternative Fuel Vehicles”

Yuet Wong, Civil Engineering, UIC, Fall 2005  
Undergraduate research “Alternative Fuel Fleet Conversion Case Study”

Brian DeMeyer, Civil Engineering, UIC, Spring 2006  
Undergraduate research “Understanding EPA’s next generation emission model MOVES”

Sara Brodzinsky, Civil Engineering, UIC, Fall 2007  
Honors College project “Feasibility Study of Segregated Bicycle Lane on Urban Streets in Chicago”

Jason Roitburd, Civil Engineering, UIC, Fall 2008  
Independent study “Environmentally Friendly Pavement Materials and Technology”

Kitty Chen, Civil Engineering, UIC, Spring 2018  
Undergraduate research “Potential correlation between patients’ mobility challenges and low show rate in hospitals in U.S.”

Amer Khalil, Civil Engineering, UIC, Summer 2018  
Undergraduate research “Are TNCs stealing ridership from public transit service?”

Abdul Aziz Shaban, Civil Engineering, UIC, Spring 2019  
Honors College project “Effects of Autonomous Vehicles on Urban Road Design”

Jasper Gabriel, Civil Engineering, UIC, Summer 2019  
Undergraduate research “In-door air pollution estimation”

Tarush Gupta, Syed Raza, Simrah Shaik, and Adam Tayabali, Computer Science, UIC, Summer 2019  
GPIP internship: “MY-AIR: Monitoring Your Air Intake Risk – A Mobile App”

Michelle Lemus Alvarez, Civil Engineering, UIC, Summer 2020  
GPIP internship “Impact of COVID-19 on Online grocery shopping patterns”

Haris Vujic and Rishi Panchal, Computer Science, UIC, Summer 2020

- GPIP internship: “MY-AIR: Monitoring Your Air Intake Risk – A Mobile App”  
Luria Tapia, Civil Engineering, Case Western Reserve University, Summer 2021  
Green Transportation Infrastructure in Chicago – accessibility and equity  
Karol Koziel, Civil Engineering, UIC, Spring 2022  
Undergraduate research, “Electrification of long-haul trucks”  
Ahtziri Flores, Civil Engineering, UIC, Summer 2024  
Summer research, “Patient medical transportation barriers in rural Illinois”

## 20. Professional Service

### External Reviewer/Expert/Assessor:

1. *Extramural reviewer*, UC Riverside Center for Environmental Research and Technology (CE-CERT), April 2012.
2. *Advisory panel member*, National Cooperative Highway Research Program (NCHRP) 25-25/Task 78: *Programmatic Agreements for Project-Level Air Quality Analyses Using MOVES, CAL3QHC/R and AERMOD*, Federal Highway Administration, U.S. Department of Transportation, 2012-2013.
3. *External reviewer* for STRIDE, a USDOT regional (Southeast) grant-funded University Transportation Center (UTC) headquartered at the University of Florida, May 2015.
4. *External reviewer* for US EPA's Railyard Air Quality Study in Kansas City, KS, 2017.
5. *International Expert* of a Tsinghua-US EPA joint research project funded by the Chinese Ministry of Science and Technology, 2017-2019.
6. *Advisory panel member*, 2018 NCHRP 25-25/Task 115 project advisory panel on *Projecting the Effect of Electric and Fuel Cell Vehicle Adoption on Air Quality*, 2018-2019.
7. *External PhD thesis assessor*: McGill University, Canada (2016); University of Toronto, Canada (2020); University of New South Wales, Sydney, Australia (2021).
8. *Advisory panel member*, US DOT project on connected/automated vehicles (PI: Dr. Reza Langari of Texas A&M University; co-PIs: Dr. Alireza Talebpour of the University of Illinois, Dr. Samer Hamdar of George Washington University and Dr. Francis Assadian of the University of California, Davis), 2021 – 2024.
9. *External reviewer for the Royal Society of Canada's College of New Scholars, Artists and Scientists*.
10. *Member* of the Health Effects Institute (HEI) expert panel on diesel fleet turnover, Fall 2023.
11. *Research oversight member* for Health Effects Institute (HEI), 2024 – 2025.
12. *External promotion and tenure reviewer*.

### Journal paper reviewer:

1. Annals of Operations Research
2. Atmospheric Chemistry and Physics
3. Atmospheric Environment
4. ASCE Journal of Urban Planning and Development
5. ASCE Journal of Transportation Engineering
6. Computer & Industrial Engineering
7. Energy Policy
8. Energy Conversion and Management
9. Environmental Modeling & Software
10. Environmental Pollution
11. Environmental Research
12. Environmental Science & Technology
13. European Journal of Operations Research
14. Geoinformatica
15. Information & Management
16. International Journal of Sustainable Transportation
17. IEEE Transactions on Automation Science and Engineering
18. IEEE Transactions on Mobile Computing



19. IEEE Transactions on Vehicle Technology
20. IEEE Transactions on Intelligent Transportation Systems
21. Journal of Advanced Transportation
22. Journal of Applied Statistics
23. Journal of Atmospheric Pollution Research
24. Journal of Cleaner Production
25. Journal of Environmental Management
26. Journal of the Air & Waste Management Association
27. Journal of Transport Geography
28. Journal of Transport & Health
29. Nature
30. Networks and Spatial Economics
31. Public Transport
32. Research in Transportation Business & Management
33. Science of the Total Environment
34. Scientific Reports
35. Sustainable Cities and Society
36. Transport Policy
37. Transportation
38. Transportation Letters
39. Transportmetrica A Transport Science
40. Transportmetrica B Transport Dynamics
41. Transportation Research Part A: Transportation Planning and Policy
42. Transportation Research Part B: Methodological
43. Transportation Research Part C: Emerging Technologies
44. Transportation Research Part D: Transportation and the Environment
45. Transportation Research Part E: Transportation Review and Logistics
46. Transportation Research Record: Journal of the Transportation Research Board
47. Transportation Science
48. Urban Studies

Book chapter reviewer:

Mannering, F.L., Kilareski, W.P., Washburn, S.S. (2008) *Principles of Highway Engineering and Traffic Analysis, fourth edition*. Wiley. Chapters 1, 3.5, 4.7, 7 and 9.

Conference paper reviewer:

1. ACM on Interactive, Multimedia, Wearable and Ubiquitous Technologies
2. ASCE Application of Advanced Technology in Transportation (AATT)
3. City Logistics
4. IEEE Conference on Intelligent Transportation Systems
5. International Association on Travel Behavior Research Conference (IATBR 2006)
6. International Symposium on Transportation and Traffic Theory (ISTTT)
7. ITS World Congress
8. Transportation Research Board (TRB) annual meetings and summer conferences
9. World Conference on Transportation Research (WCTR)
10. 11th International Conference of Chinese Transportation Professionals (ICCTP2011)
11. 15th IEEE International Conference on Networking, Sensing and Control (ICNSC 2018)
12. ASCE International Conference on Sustainable Infrastructure (ICSI 2021)

Proposal reviewer:

1. Alfred P. Sloan Foundation
2. Campus Research Board (UIC)
3. Canadian Natural Sciences and Engineering Research Council

4. Canada Foundation for Innovation (CFI)
5. Canada Research Chairs Program
6. Canada New Frontiers in Research Fund (NFRF)
7. Chilean National Commission for Scientific & Technological Research
8. Chinese Natural Science Foundation
9. Department of Defense (DoD)
10. Harvard University China Fund
11. Health Effects Institute (HEI)
12. MATS UTC (University of Virginia)
13. National Cooperative Highway Research Program (NCHRP)
14. National Science Foundation (NSF)
15. OTREC (Oregon State University)
16. PATH (UC Berkeley)
17. Research Grant Council of Hong Kong (RGC)
18. UCCONNECT (UC Berkeley)
19. UC Davis University Transportation Center (UTC)
20. University of California Transportation Center (UCTC)
21. UDUTC (University of Delaware)
22. UTRC (City University of New York)

Conference/workshop organizing (co-)chair:

1. 2010 TRB Summer Conference on Energy and Environmental Research, Raleigh, NC, June 6-9, 2010.
2. 2012 TRB Annual Meeting Sunday Workshop on “Integrated transportation and air quality modeling: Model Implementation, Data issues, and application to PM hotspot analysis”, Washington D.C., January 22, 2012.
3. 2012 TRB Summer Conference on Research to Results: Better Delivery through Best Practices, Little Rock, AK, June 24-27, 2012.
4. 2013 TRB Annual Meeting Sunday Workshop on On-Road and Off-Road Diesel Emissions Modeling, Monitoring, and Innovative Controls, January 13, 2013.
5. 2016 TRB Summer Conference on Transportation Planning and Air Quality, Minneapolis, MN, August 4-5, 2016.
6. 2024 TRB Transportation Symposium on Environment, Energy, and Livable Economies, Denver, CO, August 25-28, 2024.

Conference/workshop organizing committee member:

1. 2011 IEEE Forum on Integrated and Sustainable Transportation Systems, Vienna, Austria, June 29-July 1, 2011.
2. 2011 TRB Summer Conference on Transportation Planning, Land Use, and Air Quality, San Antonio, May 9-10, 2011.
3. 2014 TRB Summer Conference on Transportation Planning, Land Use, and Air Quality, Charlotte, March 3-4, 2014.
4. 22nd International Symposium on Transportation and Traffic Theory (ISTTT), Evanston, IL, July 23 – 26, 2017.
5. Technical Program Committee member, 23rd European Working Group on Transportation 2020 (EWGT 2020), virtual, September 16-18, 2021.

Other professional activities:

1. Session moderator, ASCE Application of Advanced Technology in Transportation (AATT) 2006, Chicago, August 2006.
2. Paper review co-chair, Transportation Research Board (TRB) ADC 20 Committee, 2008-2010
3. Session moderator, “Automatic Vehicle Location Systems”, The 11th International Conference on

- Advanced Systems for Public Transport, Hong Kong, July 20-22, 2009.
4. Technical advisory group member, the Illinois Center for Transportation (ICT) environmental division, 2009 – 2012, 2021 - 2023.
  5. Technical advisory group member, the Illinois Center for Transportation (ICT) traffic operations division, 2017-2020.
  6. Session chair, rules and technology requirements for the international Grand Cooperative Driving Challenge, organized by TNO, the Netherlands, December 8 and 9, 2009.
  7. Session moderator, the 2011 IEEE Forum on Integrated and Sustainable Transportation Systems, Vienna, Austria, June 29 – July 1, 2011.
  8. Session moderator, the 2011 INFORMS Midwestern Conference, "Analytics for Competitive Advantage", the Transportation Cluster, Columbus, OH, August 1-2, 2011.

## 21. University Service

### University level:

1. Search committee for associate director, Institute for Environmental Science and Policy at UIC (May 2008 – February 2009).
2. Vice Chancellor for Research's Urban Resilience and the Global Environment Advisory Council, September 2010 – September 2011.
3. WISEST facilitator, August 2010 – August 2012.
4. UIC Campus Research Board, Natural Sciences and Engineering subcommittee, November 1, 2008 – 2017.
5. UIC senate, August 2017- August 2020.
6. UIC all-campus Promotion & Tenure Committee, 2020-2023.

### College level:

1. UIC Engineering Expo judge, Spring 2004.
2. Computer Science department head search committee (2009 – 2010).
3. Urban Transportation Center (UTC) director search committee (2008-2011).
4. Faculty Research Award Committee (2010-2011).
5. College of Engineering (COE) Student Awards Committee, Spring 2011 – August 2012.
6. Host of the College of Engineering COE Paul-Chung Distinguished Lecture, March 2<sup>nd</sup> 2010.
7. Urban Transportation Center (UTC) executive director search committee (2015-2016).
8. College of Engineering (COE) Executive Committee (2019-2020).

### Departmental level:

1. Recurring committee service: graduate committee, undergraduate committee, computer and lab committees, recruitment committee, seminar committee.
2. Faculty search committees (7).
3. Symposium committee, Urban Transportation Center at UIC (Spring 2004).
4. Departmental advisory committee (2009-2010, 2023-2025).
5. Host of the Department Wisest Visitor Scholar Seminar, March 17<sup>th</sup>, 2010.
6. Department distinguished lecture series coordinator (2010 – 2013).
7. Steering Committee, Institute for Environmental Science and Policy at UIC (Fall 2003- present).
8. UIC CME senior design advisor – Spring 2004 (1), 2005 (1), 2006 (2), 2007 (3), 2017 (2), 2018 (2), 2020 (1), 2021 (1).
9. Advisory committee (2023-2025).

## 22. Media coverage

1. Interviewed by NPR on ASCE's 2013 infrastructure report card.
2. Illinois Center for Transportation (ICT) Principal Investigator Spotlight (November 2011):  
<http://ict.illinois.edu/2011/11/17/ict-principal-investigator-spotlight-jane-lin-uic/>

3. Featured expert on Wallethub.com's 2017 Best and Worst Cities to Drive In <https://wallethub.com/edu/best-worst-cities-to-drive-in/13964/#jie-jane-lin>
4. Featured research profile on TR News by TRB, November-December 2020 issue, <https://drive.google.com/file/d/1Izeg-0KhHK7vz6fqXlGAzeZaJRet04-3/view?usp=sharing>.
5. Featured expert on Wallethub.com's 2021 Best and Worst Cities to Drive In (August 31, 2021) [https://wallethub.com/edu/best-worst-cities-to-drive-in/13964#expert=Jane\\_Lin](https://wallethub.com/edu/best-worst-cities-to-drive-in/13964#expert=Jane_Lin)
6. Interviewed panelist by the Hill on The Road to Zero Emission Trucks: Fleets and Shippers (September 15, 2021), <https://thehill.com/event/568288-the-road-to-zero-emission-trucks-fleets-shippers>
7. Featured in the fall 2021 issue of RISE: the UIC College of Engineering Magazine, *Think outside the bus*, <https://engineering.uic.edu/about/coe-news/rise/fall-2021/think-outside-the-bus/>