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**Contents**

1.	RESEARCH FOCUS AREAS .....	2
2.	TEACHING FOCUS AREAS .....	2
3.	PROFESSIONAL PREPARATION .....	2
4.	APPOINTMENTS.....	2
5.	PROFESSIONAL ASSOCIATIONS .....	2
6.	EDITORIAL ACTIVITIES .....	3
7.	AWARDS .....	3
8.	INVITED SCHOLARSHIPS.....	4
9.	INVITED ACADEMIC COLLOQUIA .....	4
10.	INVITED KEYNOTE PRESENTATIONS .....	5
11.	INVITED PANELS.....	5
12.	REFEREED PUBLICATIONS.....	6
	(a) Refereed Journal Publications.....	6
	(b) Refereed Publications in Computer Science Publication Venues.....	9
	(c) Refereed Book Chapters.....	10
	(d) Refereed Copy-righted Conference Proceedings Publications.....	10
13.	CONFERENCE PRESENTATIONS .....	11
	(a) by invitation.....	11
	(b) with peer-reviewed full paper submission .....	11
	(c) with abstract submission only.....	16
14.	INVITED PRESENTATIONS AT OTHER PROFESSIONAL MEETINGS .....	18
15.	EDITED MEETING PROCEEDINGS .....	19
16.	PUBLISHED TECHNICAL REPORTS .....	19
17.	FUNDING HISTORY .....	6
18.	TEACHING EXPERIENCE.....	21
19.	VISITING SCHOLARS HOSTED .....	22
20.	STUDENT SUPERVISION .....	22
21.	PROFESSIONAL SERVICE.....	27
22.	UNIVERSITY SERVICE.....	30
23.	MEDIA COVERAGE .....	30

## 1. Research Focus Areas

- Sustainable transportation systems modeling and design with a focus on
  - air pollution and greenhouse gas mitigation,
  - health exposure analysis to mobile source pollutants
  - green freight transportation and urban logistics design and strategies
  - public transport service
  - 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

## 2. Teaching Focus Areas

- Transportation Engineering
- Sustainable Urban Transportation Systems
- Public Transit Operations and Technology
- 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 and Deb Niemeier.

Ph.D., Civil and Environmental Engineering (minor degree in Statistics), University of California, Davis, 2002,

Advisor: Professor Deb Niemeier.

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 at Chicago
August 2009 – August 2019	Associate Professor, Department of Civil, Materials, and Environmental Engineering, University of Illinois at Chicago Research associate professor, Institute of Environmental Science and Policy, University of Illinois at Chicago
August 2003 – August 2009	Assistant Professor, Department of Civil, Materials, and Environmental Engineering, University of Illinois at Chicago Research assistant professor, Institute of Environmental Science and Policy, University of Illinois at Chicago
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 Associations

- Member, Technical Activity Council (TAC), Transportation Research Board (TRB), National Academies of Sciences, Engineering, and Medicine, April 2020 – April 2023
- Chair, Sustainability & Resilience Group (AM000), Transportation Research Board (TRB), National Academies of Sciences, Engineering, and Medicine, April 2020 – April 2023.
- 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, *Transportation Research Part A: Policy and Practice*, February 2008 – present.
- Editorial board member, *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.
- Guest editor, 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.

## 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.
- Best paper awards:
  - a. “Development of a CO hot-spot screening model for toll highway facilities” the Council of University Transportation Centers (CUTC) Parker Award in January 2006 (co-authored with former MS student Dan Yu).
  - b. “Analysis of National County-level Heavy-duty Freight Truck Emissions”, Best Paper Award, 2<sup>nd</sup> prize, at the 2007 Transport Chicago Conference (co-authored with former MS student Joshua Auld).
  - c. “What neighborhood are you in? Empirical Findings of Relationships between Residential Location, Lifestyle, and Travel”, the 2007 ITE Illinois Section Best Paper Award (co-authored with former PhD student Liang Long).

- d. "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 (co-authored with former PhD student Daniel Ayala and Dr. Ouri Wolfson).
- e. "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 (co-authored with former PhD student Minyan Ruan and Dr. Kazuya Kawamura).
- f. "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 (co-authored with former PhD student Sudheer Ballare).

## 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 at 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. "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.
10. "Integrated Framework for Fine-Grained Transportation and Air Quality Analyses", Dalian University of Science and Technology, Dalian, China, November 19, 2012.
11. "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.
12. “Economic and Environmental Analyses of Urban Delivery Consolidation Strategies”, Dalian University of Science and Technology, Dalian, China, November 22, 2012.
  13. “Integrated Framework for Environmentally Sustainable Transportation Policy Analyses”, the China Research Academy of Environmental Science (CRAES), Beijing, China, December 5, 2012.
  14. “Sensitivity Tests of MOVES and AERMOD models for PM2.5 Hotspot Analysis”, the China Research Academy of Environmental Science (CRAES), Beijing, China, December 12, 2012.
  15. “Integrated Framework for Environmentally Sustainable Transportation Policy Analyses”, Department of Civil Engineering, Harbin Institute of Technology, Harbin, China, December 6, 2012.
  16. “Bus Probe Based Urban Travel Time Prediction”, Department of Civil Engineering, Harbin Institute of Technology, Harbin, China, December 7, 2012.
  17. “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.
  18. “Economic and Environmental Analyses of Urban Delivery Consolidation Strategies”, Department of Civil Engineering, Harbin Institute of Technology, Harbin, China, December 9, 2012.
  19. “Mobile Source Emissions and Climate Change”, Department of Civil Engineering, Harbin Institute of Technology, Harbin, China, December 10, 2012.
  20. “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.
  21. “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.
  22. “Sensitivity Tests of MOVES and AERMOD models for PM2.5 Hotspot Analysis”, Joint research meeting by US Environmental Protection Agency, Cornell University, University of Illinois at Chicago, and Tsinghua University, Beijing, China, December 16, 2012.
  23. "Estimating Near-Road Pollution and Health Exposure", Department of Civil, Environmental and Architectural Engineering, Illinois Institute of Technology, Chicago, IL, April 2, 2014.
  24. "Green Urban Freight Consolidation Strategies", Department of Civil and Environmental Engineering, Northwestern University, Evanston, IL, May 14, 2015.
  25. “Integrated Transportation, Air Quality and Exposure Analysis Framework”, Division of Transportation Studies, College of Engineering, Sun Yat-sen University, Guangzhou, China, June 7, 2017.
  26. “Emerging Trends in Last-mile Logistics: How green are they?” Institute for Transportation Studies, University of California, Davis, CA, October 25, 2019.
  27. “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.
  28. “Emerging Trends in Last-mile Logistics: How green are they? The US Experience”, Shanghai Maritime University, Shanghai, China, December 20, 2019.

## 10. Invited Keynote Presentations

1. “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.

## 11. Invited Panels

1. Global Commercial Vehicle and Off-highway Vehicle Summit 2017, Panel on *Alternative Fuels Development as a Green Product Trend in USA*, Chicago, IL, December 6<sup>th</sup>, 2017.
2. Global Commercial Vehicle and Off-highway Vehicle Summit 2017, Panel on *Trends for New*

*Energy Commercial Vehicles and How It Impacts the Future of Efficiency and Emissions*, Chicago, IL, December 7<sup>th</sup>, 2017.

3. 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.
4. 25<sup>th</sup> Belle R. & Joseph H. Braun Memorial Symposium – Cutting through Academic Silos within the University of Illinois System to Achieve Sustainability, Virtual Panel on *Infrastructure*, October 30, 2020.
5. Chicago Council of Science and Technology (C2ST), Panel on *The Future of Transportation in Chicago*, Chicago, IL, May 3, 2021.

## 12. Refereed Publications

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

### (a) Refereed Journal Publications

1. Niemeier, D.<sup>+</sup>, Redmond, L., Morey, J., Hicks, J., Hendren, P., Lin, J., Foresman, E., 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., 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., 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., 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>, 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>, 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., Fulla, S.\* (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., 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>, Yu, D.\* (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>, 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>, Long, L.\* (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>, Long, L.\* (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.
13. Long, L.\*<sup>+</sup>, Lin, J.<sup>+</sup>, Pu, W.\* (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>, Long, L.\* (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>, Ruan, M.\* (2009) Probability Based Bus Headway Regularity Measure. *IET Intelligent Transport Systems*, Vol. 3, Iss. 4, 400–408.
  16. Long, L.\* , Lin, J.<sup>+</sup>, Proussaloglou, K. (2010) Investigating Contextual Variability in Mode Choice Using Hierarchical Mixed Logit Model. *Urban Studies* 47(11), 2445-2459.
  17. Szczurek, P.\* , Xu, B., Lin, J., Wolfson, O.<sup>+</sup> (2010) Spatio-temporal Information Ranking in VANET Applications, *International Journal of Next Generation Computing* Vol 1(1), 52-72.
  18. Ruan, M.\* , 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., Wang, P.\* (2010) Progressing from uncertainty to risk for DEA-based decisions, *Journal of the Operational Research Society* 61 (10), 1548-1555.
  20. Vallamsundar, S.\* , 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.
  21. Vallamsundar, S.\* , 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.
  22. Thakuria, P.<sup>+</sup>, Metaxatos, P., Lin, J., 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.
  23. Ruan, M.\* , Lin, J.<sup>+</sup>, Kawamura, K. (2012) Modeling Commercial Vehicle Daily Tour Chaining, *Transportation Research Part E: Transportation Review and Logistics*, Vol 48 (6), 1169-1184.
  24. Szczurek, P.\*<sup>+</sup>, Xu, B., Wolfson, O., Lin, J. (2012) Estimating Relevance for the Emergency Electronic Brake Light Application, *IEEE Transactions on Intelligent Transportation Systems*, Vol 13 (4), 1638-1656.
  25. Vallamsundar, S.\* , Lin, J.<sup>+</sup> (2012) MOVES and AERMOD Used for PM2.5 Conformity Hot-Spot Air Quality Modeling, *Journal of Transportation Research Board*, No. 2270, 39-48.
  26. Chen, Q.\* , Lin, J.<sup>+</sup>, Kawamura, K. (2012) A Comparison between Urban Cooperative Delivery and Direct Delivery Strategies, *Journal of Transportation Research Board*, No. 2288, 28-39.
  27. Chen, Q.\* , Adida (Goodman), E., Lin, J. (2013) Implementation of an iterative headway-based bus holding strategy with real-time information, *Public Transport*, Vol.4 (3), 165-186.
  28. Zhou, Z.\* , Li, L.<sup>+</sup>, 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.
  29. Chen, Z.\* , Yin, Y.<sup>+</sup>, He, F., Lin, J. (2015) Parking Reservation for Managing Downtown Curbside Parking, *Transportation Research Record: Journal of the Transportation Research Board*, No. 2498, 12–18.
  30. Lin, J.<sup>+</sup>, Szczurek, P.\* , Wolfson, O., 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.
  31. Zou, B.<sup>+</sup>, Kafle, N.\* , Wolfson, O., 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.
  32. Li, Q.\* , Nie, Y.<sup>+</sup>, Vallamsundar, S.\* , Lin, J., Homem-de-Mello, T. (2016) Finding efficient and environmentally friendly paths for risk-averse freight carriers, *Networks and Spatial Economics*, 16(1), 255-275.
  33. Lin, J.<sup>+</sup>, Chen, Q.\* , Kawamura, K. (2016) Logistics Cost and Environmental Impact Analyses of Urban Delivery Consolidation Strategies, *Networks and Spatial Economics*, 16(1), 227-253.
  34. Vallamsundar, S.\* , Lin, J.<sup>+</sup>, Konduri, K., Zhou, X., Pendyala, R. (2016) A Comprehensive Modeling

Framework for Transportation-induced Health Exposure Assessment, *Transportation Research Part D: Transportation and the Environment*, 46, 94-113.

35. Vallamsundar, S. \*, Lin, J. +, Chang, Y.T. (2016) Estimating Externality of Population Health Exposure to Emissions From Transportation Sources, *International Journal of Shipping and Transportation Logistics*, Vol. 8, No.6, 632-652.
36. Lin, J. +, Zhou, W. \*, Wolfson, O. (2016) Electric Vehicle Routing Problem. *Transportation Research Procedia*, Vol. 12, 508-521.
37. Kafle, N. \*, Zou, B. +, Lin, J. (2017) Design and Modeling of Crowdsourcing Enabled Relay System for Urban Parcel Delivery, *Transportation Research Part B: Methodological* Vol. 99, 62-82.
38. Lin, J. +, Zhou, W. \*, Du, L. (2018) Is On-demand Same Day Delivery Service Green? *Transportation Research Part D: Transportation and the Environment*, 61, 118-139.
39. Ayala, D. \*+, Wolfson, O. , DasGupta, B., Lin, J., Xu, B. (2018) Spatio-temporal Matching for Urban Transportation Applications, *ACM Transaction on Spatial Algorithms and Systems* Vol. 3(4), 11-39.
40. Zhang, L. \*, Hu, X., Qiu, R., Lin, J. +, Zhang, H., Chen, Q., Tan, H., Lin, D. (2018) Trend analysis and forecast of PM2.5 in Fuzhou, China using the ARIMA model, *Ecological Indicators*, Vol. 95, 702-710.
41. Zhang, L. \*, Hu, X., Qiu, R., 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.
42. Conlon J. \*, Lin, J. + (2019) Emission Impact of Autonomous Vehicle introduction in an urban network, *Journal of Transportation Research Board*, Vol. 2673(5), 142-153.
43. Li, W., Lin, J. + (2019) Special Issue on Urbanization, transportation and air quality in developing countries, *Transportation Research Part D: Transportation and Environment*, Vol. 68, p1.
44. Zhou, W. \*, 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.
45. Foti, L. \*, Lin, J., Wolfson, O. + (2019) Optimum versus Nash-equilibrium in taxi ridesharing. *GeoInformatica* 2019: 1-29.
46. Shen, H. \*, Zou, B., Lin, J. +, 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.
47. Ballare, S. \*, Lin, J. + (2020) Investigating the use of microhubs and crowdshipping for last mile delivery, *Transportation Research Procedia* Vol. 46, 277-284.
48. Lin, J. +, Zhou, W. \* (2020) Important Factors for Daily Routing Cost of Battery Electric Delivery Trucks. *International Journal of Sustainable Transportation*, 15:7, 541-558.
49. Shen, H. \*, Lin, J. + (2020) Comprehensive Investigation of Crowdshipping Delivery Production with Real-world Data, *Transportation Research Part E: Logistics and Transportation Review*, Vol. 143, 102106.
50. Zhang, L. \*, Lin, J. +, Qiu, R. (2021) Use of Portable Emissions Measurement System (PEMS) to Investigate the CO and NOx from gasoline and diesel vehicles in the mountainous city of China, *Journal of Cleaner Production* 286, 124957.
51. Patankar, N. +, Lin, J. +, Patankar, T. (2021) Mileage efficiency of cars. *Journal of Cleaner Engineering and Technology*, accepted.

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

52. Lin, J. +, Ballare, S. \* (under rereview) Investigation of an Alternative Urban Delivery Paradigm Using Microhubs with Crowdshipping, *Transportation Research Part E: Logistics and Transportation Review*.
53. Shen, H. \*, Lin, J. + (under review) A Courier's Choice for Delivery Gigs in a Two-sided Crowdshipping System, *Transportation Research Part A: Policy and Practice*.



54. Shen, H.\* , Namdarpour, F., Lin, J.+ (in preparation) Impact of COVID-19 on Online Grocery Shopping Behavior, to be submitted to *Journal of Transportation Engineering, Part A: Systems*.

### (b) Refereed Publications in Major Computer Science Publication Venues

55. Szczurek, P.\* , Xu, B., Lin, J., Wolfson, O.+ (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.
56. Ayala, D.\* , Lin, J., Wolfson, O.+ , Rishe, N., 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.
57. Szczurek, P.\* , Xu, B., Wolfson, O.+ , Lin, J., Rishe, 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.
58. Szczurek, P.\* , Xu, B., Wolfson, O.+ , Lin, J., Rishe, 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.
59. Ma, S.\* , Wolfson, O.+ , Lin, J. (2010) IIP: an event-based platform for ITS applications, *Proceedings of the 2nd International Workshop on Computational Transportation Science*, pp. 1-6.
60. Xu, B.+ , Wolfson, O., Lin, J. (2010) Multimedia Data in Hybrid Mobile P2P Networks, *8th International Conference on Advances in Mobile Computing & Multimedia*, pp. 109-116.
61. Szczurek, P.\* , Xu, B., Wolfson, O.+ , 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.
62. Ma, S.\* , Wolfson, O.+ , Lin, J. (2011) "A Survey on Trust Management for Intelligent Transportation System", *Proceedings of the 4th ACM SIGSPATIAL International Workshop on Computational Transportation Science*, pp. 18-23.
63. Ayala, D.\* , Wolfson, O.+ , Xu, B., Dasgupta, B., Lin, J. (2011) Parking Slot Assignment Games, *Proceedings of the ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*, pp. 299-308.
64. Szczurek, P.\* , Xu, B., Wolfson, O.+ , Lin, J. (2012) A Platform for the Development and Evaluation of Passive Safety Applications, *2012 IEEE Intelligent Vehicles Symposium (IV 2012)*, pp. 808-813.
65. Szczurek, P.\* , Xu, B., Wolfson, O.+ , Lin, J. (2012) A methodology for the development of novel VANET safety applications, *Proceedings of the 9th ACM international workshop on Vehicular inter-networking, systems, and applications*, pp.119-122.
66. Ayala, D.\* , Wolfson, O.+ , Xu, B., Dasgupta, B., Lin, J. (2012) Stability of Marriage and Vehicular Parking, *2<sup>nd</sup> International Workshop on Matching Under Preferences*, pp. 7-18.
67. Ayala, D.\* , Wolfson, O.+ , Xu, B., Dasgupta, B., Lin, J. (2012) Parking in Competitive Settings: A Gravitational Approach, *IEEE 13th International Conference on Mobile Data Management*, pp. 27-32.
68. Ayala, D.\* , Wolfson, O.+ , Xu, B., Dasgupta, B., 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.
69. Ayala, D.\* , Wolfson, O.+ , Xu, B., Dasgupta, B., 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.
70. Wolfson, O.+ , 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.
71. Lin, J.+ , Sasidharan, S.\* , Ma, S.\* , 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.

72. Wolfson, O.<sup>+</sup>, Lin, J.<sup>+</sup> (2017) Fairness versus Optimality in Ridesharing, *Proceedings of the 18th IEEE International Conference on Mobile Data Management*, pp. 118-123.
73. Foti, L.<sup>\*</sup>, Wolfson, O.<sup>+</sup>, Lin, J., 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.
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### (c) Refereed Copy-righted Publications in Conference Proceedings

75. Yu, D.<sup>\*</sup>, Mishra, S.<sup>\*</sup>, Lin, J.<sup>+</sup> (2006) Visualization of Real Time Bus Schedule Using GIS. *The ASCE Proceedings of the 9th International Conference on Application of Advanced Technology in Transportation*, pp. 159-164.
76. Lin, J.<sup>+</sup>, Ruan, M.<sup>\*</sup> (2007) Modeling Neighborhood Environment, Bus Ridership and Air Quality: A Case Study of Chicago Bus Service. *ASCE Proceedings of the 2007 Transportation, Land Use, Planning, and Air Quality Conference*, pp. 134-146.
77. Pu, W.<sup>\*</sup>, 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.
78. Lin, J.<sup>+</sup>, Ruan, M.<sup>\*</sup> (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.
79. Ruan, M.<sup>\*</sup>, Lin, J.<sup>+</sup> (2008) An Investigation in Synthesis Methods of Generating High Geographic Resolution Freight Data, *Proceedings of the 13th International Conference of the Hong Kong Society for Transportation Studies*, pp. 281-289.
80. Auld, J.<sup>\*</sup>, Rashidi, T.H.<sup>\*</sup>, 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.
81. Ruan, M.<sup>\*</sup>, 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.
82. Vallamsundar, S.<sup>\*</sup>, 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.
83. Chen, Q.<sup>\*</sup>, Adida, E., Lin, J.<sup>+</sup> (2010) An Investigation in Real-time Bus Holding Policy, *15th HKSTS International Conference on Transportation and Urban Sustainability*, pp. 739 – 746.
84. Lin, J.<sup>+</sup>, Chiu, Y.C., Vallamsundar, S.<sup>\*</sup>, 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.
85. Vallamsundar, S.<sup>\*</sup>, Lin, J.<sup>+</sup> (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.

### (d) Refereed Book Chapters

86. McDonnell, S.<sup>\*</sup>, Lin, J.<sup>+</sup> (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.
87. Niemeier, D.<sup>+</sup>, Goodchild, A., Rowell, M., Walker, J., Lin, J., 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.

88. Ballare, S.<sup>\*</sup>, Lin, J.<sup>+</sup> (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.

### 13. 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.

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

15. Niemeier, D.A., Hendren, P., Foresman, E., Morey, J.E., Redmond, L., Lin, J., Hicks, J., 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.

16. Lin, J., Niemeier, D.A. (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.
17. Lin, J., Srinivasan, S., 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.
18. Lin, J., 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.
19. Lin, J., Mishra, S. (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.
20. Wang, P., Lin, J., 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.
21. Chen, C., 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.
22. Lin, J., Yu, D. (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.
23. Yu, D., Mishra, S., Lin, J. (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.
24. Pu, W., Boyce, D., 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.
25. Long, L., Lin, J. (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.
26. Lin, J., Ruan, M. (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.
27. Pu, W., Lin, J. (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.
28. Lin, J., Ruan, M. (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.
29. Thakuriah, P., Yanos, G., Lin, J., Metaxatos, P., Sulo, R., Pu, W., 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.
30. Pu, W., Lin, J. (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.
31. Ruan, M., Lin, J. (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.
32. Long, L., Lin, J., Pu, W. (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.

33. Pu, W., Lin, J. (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.
34. Long, L., Lin, J., 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.
35. McDonnell, S., Lin, J. (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.
36. 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
37. Ruan, M., Lin, J. (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.
38. Auld, J., Rashidi, T.H., Lin, J. (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.
39. Szczurek, P., Xu, B., Lin, J., Wolfson, O. (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.
40. Ruan, M., Lin, J., 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.
41. Ruan, M., Lin, J. (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.
42. Pu, W., Lin, J., 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.
43. Ayala, D., Lin, J., Wolfson, O., Rishe, N., 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.
44. Szczurek, P., Xu, B., Wolfson, O., Lin, J., Rishe, 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.
45. Szczurek, P., Xu, B., Wolfson, O., Lin, J., Rishe, N. (2010) Learning the Relevance of Parking Information in VANETs, *the seventh ACM international workshop on Vehicular InterNetworking*, Chicago, IL, September 24, 2010.
46. Ma, S., Wolfson, O., 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.
47. Xu, B., Wolfson, O., 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.
48. Vallamsundar, S., Lin, J. (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.
49. Ruan, M., Lin, J., Kawamura, K. (2011) Modeling Commercial Vehicle Daily Tour Chaining using the Texas Commercial Vehicle Survey Data, *90<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 11-3329, Washington, D.C., January 23-27, 2011.

50. Vallamsundar, S., Lin, J. (2011) MOVES versus MOBILE: A comparison of GHG and Criteria Pollutant Emissions, *90<sup>th</sup> Transportation Research Board Annual Meeting*, Washington, D.C., January 23-27, 2011.
51. Szczurek, P., Xu, B., Wolfson, O., 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)*, Lucca, Italy, June 20-24, 2011.
52. Lin, J., Chiu, Y.C., Vallamsundar, S., Bai, S. (2011) Integration of MOVES and Dynamic Traffic Assignment Models for Fine-Grained Transportation and Air Quality Analyses, *the IEEE Forum on Integrated and Sustainable Transportation Systems (FISTS)*, Vienna, Austria, June 29 – July 1, 2011.
53. Ma, S., Wolfson, O., Lin, J. (2011), “A Survey on Trust Management for Intelligent Transportation System”, *the 4th ACM SIGSPATIAL International Workshop on Computational Transportation Science*, Chicago, IL, November 4, 2011.
54. Ayala, D., Wolfson, O., Xu, B., Dasgupta, B., Lin, J. (2011) Parking Slot Assignment Games, *the ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*, Chicago, IL, November 4-7, 2011.
55. Vallamsundar, S., Lin, J. (2012) MOVES and AERMOD Used for PM2.5 Conformity Hot-Spot Air Quality Modeling, *91<sup>st</sup> Transportation Research Board Annual Meeting*, Washington, D.C., January 22-26, 2012.
56. Chen, Q., Lin, J., Kawamura, K. (2012) A Comparison between Urban Cooperative Delivery and Direct Delivery Strategies, *91<sup>st</sup> Transportation Research Board Annual Meeting*, paper no. 12-2173, Washington, D.C., January 22-26, 2012.
57. Szczurek, P., Xu, B., Wolfson, O., Lin, J. (2012) A Platform for the Development and Evaluation of Passive Safety Applications, *2012 IEEE Intelligent Vehicles Symposium (IV 2012)*, Alcalá de Henares, Spain, June 3-7, 2012.
58. Szczurek, P., Xu, B., Wolfson, O., Lin, J. (2012) A methodology for the development of novel VANET safety applications, *the 9th ACM international workshop on Vehicular inter-networking, systems, and applications*, Low Wood Bay, United Kingdom, June 25, 2012.
59. Ayala, D., Wolfson, O., Xu, B., Dasgupta, B., Lin, J. (2012) Stability of Marriage and Vehicular Parking, *2<sup>nd</sup> International Workshop on Matching Under Preferences*, Budapest, Hungary, July 19-20, 2012.
60. Ayala, D., Wolfson, O., Xu, B., Dasgupta, B., Lin, J. (2012) Parking in Competitive Settings: A Gravitational Approach, *IEEE 13th International Conference on Mobile Data Management*, Bengaluru, India, July 23-26, 2012.
61. Ayala, D., Wolfson, O., Xu, B., Dasgupta, B., Lin, J. (2012) Spatio-temporal Matching for Road Networks, *the 20th International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL) 2012*, Redondo Beach, California, November 6-9, 2012.
62. Ayala, D., Wolfson, O., Xu, B., Dasgupta, B., Lin, J. (2012) Pricing of Parking for Congestion Reduction, *the 20th International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL) 2012*, Redondo Beach, California, November 6-9, 2012.
63. Vallamsundar, S., Lin, J. (2013) Sensitivity Test Analysis of MOVES and AERMOD models, *92<sup>nd</sup> Transportation Research Board Annual Meeting*, paper #13-1590, Washington D.C., January 13-17, 2013.
64. Li, Q., Nie, Y., Vallamsundar, S., Lin, J., Homem-de-Mello, T. (2013) Incorporating Environmental Measures into a Reliable Freight Routing Model, *92<sup>nd</sup> Transportation Research Board Annual Meeting*, paper #13-4185, Washington D.C., January 13-17, 2013.
65. Lin, J., Zhou, W. (2013) Urban Commercial Vehicle Trip-Chaining: Regional Comparison between Texas and Idaho, *92<sup>nd</sup> Transportation Research Board Annual Meeting*, paper no.13-3121, Washington D.C., January 13-17, 2013.
66. Li, Q., Nie, Y., Lin, J., Homem-de-Mello, T. (2013) Finding reliable and sustainable routes: an approach using risk constraints, *TRISTAN 8 – Eighth Triennial Symposium on Transportation*

- Analysis*, San Pedro de Atacama, Chile, June 9 – 14, 2013.
67. Zhou, W., Chen, Q., Lin, J. (2014) Empirical Study of Urban Commercial Vehicle Tour Patterns in Texas, *93<sup>rd</sup> Transportation Research Board Annual Meeting*, paper no. 14-5132, Washington D.C., January 12-16, 2014.
  68. Chen, Q., Lin, J. (2014) A Preliminary Investigation of Sustainable Urban Truck Routing Strategies Considering Cargo Weight and Vehicle Speed, *93<sup>rd</sup> Transportation Research Board Annual Meeting*, paper no. 14-3300, Washington D.C., January 12-16, 2014.
  69. Vallamsundar, S., Lin, J., Chang, Y.T. (2014) Estimating Externality of Population Health Exposure to Emissions From Transportation Sources, *6<sup>th</sup> Asian Logistics Round Table & Conference*, paper no. 109, Bangkok, Thailand, April 1-3, 2014.
  70. Wolfson, O., Lin, J. (2014) A Marketplace for Spatio-temporal Resources and Truthfulness of its Users, *the 7<sup>th</sup> ACM SIGSPATIAL International Workshop on Computational Transportation Science*, Dallas, TX, November 4, 2014.
  71. Chen, Z., Yin, Y., He, F., Lin, J. (2015) Parking Reservation for Managing Downtown Curbside Parking, *94<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 15-5008, Washington D.C., January 11-15, 2015.
  72. Zhou, W., Chen, Q., Lin, J. (2015) Green Vehicle Routing Problem Considering Joint Effect of Vehicle Load and Speed, *94<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 15-1112, Washington D.C., January 11-15, 2015.
  73. Lin, J., Szczurek, P., Wolfson, O., Xu, B. (2015) The Observe-Driver-and-Learn Platform for the Development of VANET Safety Applications, *94<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 15-4657, Washington D.C., January 11-15, 2015.
  74. Lin, J., Zhou, W., Wolfson, O. (2015) EV Routing Problem, *9<sup>th</sup> International Conference on City Logistics*, Tenerife, Spain, June 17-19, 2015.
  75. Vallamsundar, S., Lin, J. (2016) Modeling Air Quality and Population Exposure Levels to PM Emissions from Motor Vehicles in Gold Coast region, Chicago, *95<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 16-1475, Washington D.C., January 10-14, 2016.
  76. O'Shea, W., Mueller, S., Caldwell, I., Lin, J. (2016) Evaluation of the USEPA MOVES Model Sensitivity to Ethanol Fuel Blends: A case study in Cook County, Illinois, *95<sup>th</sup> Transportation Research Board Annual Meeting*, paper no. 16-4146, Washington D.C., January 10-14, 2016.
  77. Lin, J., Sasidharan, S., Ma, S., Wolfson, O. (2016) A Model for Multimodal Ridesharing and Its Analysis, *17<sup>th</sup> IEEE International Conference on Mobile Data Management*, Porto, Portugal, June 13-16, 2016.
  78. Patankar, N.A., Lin, J., Patankar, T.N. (2017) Mileage Efficiency-based Approach to Quantify Energy Consumption and Carbon Emissions of Automotive Vehicles, *96<sup>th</sup> Transportation Research Board Annual Meeting*, Washington D.C., January 8-12, 2017.
  79. Lin, J., Wolfson, O. (2017) A Peer-to-Peer Marketplace for Agent-Resource Matching and Truthfulness in Transportation Services, *96<sup>th</sup> Transportation Research Board Annual Meeting*, Washington D.C., January 8-12, 2017.
  80. Kafle, N., Zou, B., Lin, J. (2017) Crowdsourcing-Enabled System for Urban Parcel Relay and Delivery, *96<sup>th</sup> Transportation Research Board Annual Meeting*, Washington D.C., January 8-12, 2017.
  81. Wolfson, O., Lin, J. (2017) Fairness versus Optimality in Ridesharing, *18<sup>th</sup> IEEE International Conference on Mobile Data Management*, KAIST, Daejeon, South Korea, May 29-June 1, 2017
  82. Ballare, S., Lin, J. (2017) Case Study of a Crowdsourced Package Delivery System, *2017 International City Logistics Conference*, Phuket, Thailand, June 14-16, 2017.
  83. Conlon, J., Ballare, S., Lin, J. (2018) Analysis of Fuel Consumption and Greenhouse Gases of Autonomous Vehicles at a Network Scale, *97<sup>th</sup> Transportation Research Board Annual Meeting*, Washington D.C., January 7-11, 2018.
  84. Conlon J., Lin, J. (2019) Emission Impact of Autonomous Vehicle Introduction in an Urban Network, *98<sup>th</sup> Transportation Research Board Annual Meeting*, Washington D.C., January 13-17, 2019.

85. Parsa, A., Taghipour, H., Rahimi, E., Lin, J., Mohammadian, A. (2019) A Microsimulation Approach to Access the Environmental Impacts of Different Ramp Metering Scenarios; A Case Study Of Eisenhower Expressway in Chicago, *98<sup>th</sup> Transportation Research Board Annual Meeting*, Washington D.C., January 13-17, 2019.
86. Stinson, M., Lin, J., Mohammadian, A. (2019) Linking Business Strategy to Transportation Energy Consumption and Emissions Estimates: Sensitivity To Automobile Assembly Location Strategies, *98<sup>th</sup> Transportation Research Board Annual Meeting*, Washington D.C., January 13-17, 2019.
87. Ballare, S., Lin, J. (2019) Investigating the use of microhubs and crowdshipping for last mile delivery, *11<sup>th</sup> International Conference on City Logistics*, Dubrovnik, Croatia, June 12-14, 2019.
88. Shen, H., Lin, J. (2019) Investigation of Crowdshipping Delivery Production and Destination Choice Forecasting with Real-world Data, *3rd International Symposium on Multimodal Transportation (ISMT)*, Singapore, December 6-7, 2019.
89. Shen, H., Lin, J. (2020) Deep Learning-based Crowd-shipping Delivery Production Forecasting, *99<sup>th</sup> Transportation Research Board Annual Meeting*, Washington D.C., January 12-16, 2020.
90. Shen, H., Namdarpour, F., Lin, J. (2021) Preliminary investigation of online grocery shopping and delivery preference during COVID-19, *24th EURO Working Group on Transportation Meeting* (virtual), EWGT 2021, 8-10 September 2021.

**(c) with abstract submission only**

91. Srinivasan, S., Lin, J., Rogers, P. (2004) Comparing air quality, land use and transportation characteristics in urban China and India: Making the case for integrated transit planning, *American Association of Geographers Annual Meeting*, Philadelphia, PA, March 7-9, 2004.
92. Lin, J., Long, L. (2005) Travel Patterns of People in CMSA: Effects of neighborhood lifestyle, CMSA location and travel characteristics. *52<sup>nd</sup> Annual North American Meeting of the Regional Science Association International*, Las Vegas, NV, November 10-12, 2005.
93. Srinivasan, S., Lin, J., Rogers, P. (2006) Multivariate Analysis of Air Quality and Urbanization Characteristics: A Comparative Study of Cities in China and India. *2006 Technical Symposium on Important Issues of Transportation Development in China, Taiwan, and Neighboring Regions*, Washington, D.C., January 22, 2006.
94. Lin, J., Long, L. (2006) A Hierarchical Logit Model Analysis of Transferability of National Household Travel Survey Data. *53<sup>rd</sup> Annual North American Meeting of the Regional Science Association International*, Toronto, ON, Canada, November 15-18, 2006.
95. Auld, J., Lin, J., Kawamura, K., Rashidi, T.H. (2007) Analysis of National County-level Heavy-duty Freight Truck Emissions. *Transport Chicago 2007*, Chicago, IL, June 1, 2007.
96. Pu, W., Lin, J. (2008) Urban Street Travel Time Prediction Using Real Time Bus Tracker Data. *Transport Chicago 2008*, Chicago, IL, June 6, 2008.
97. Ruan, M., Lin, J. (2008) An Investigation of Bus Headway Regularity and Service Performance in Chicago Bus Transit System. *Transport Chicago 2008*, Chicago, IL, June 6, 2008.
98. Long, L., Lin, J., Prousaloglou, K. (2008) Investigating Contextual Variability in Mode Choice: Accounting for Residential Neighborhood Type. *Transport Chicago 2008*, Chicago, IL, June 6, 2008
99. Pu, W., Lin, J. (2008) Simulating Bus Probes in VISSIM. *2008 Midwestern District Institute of Transportation Engineers (ITE) Conference*, Chicago, IL, July 6-8, 2008.
100. Ruan, M., Lin, J. (2008) Generating County-level Freight Data Using Public Data Sources, *Mid-Continent Transportation Research Forum*, Madison, Wisconsin, August 14-15, 2008.
101. Erdal, S., Freeman, J.L., Lin, J. (2008) Comparative Analysis of Human Exposure Profile of Ethanol-Based Biofuels and Oxygenated Gasolines, *Annual Meeting of Society for Risk Analysis*, Boston, MA, December, 2008.
102. Lin, J., Ruan, M., (2009) A multilevel model for generating county-level freight data, presented *Workshop on the Data and Tools for Understanding the Goods Movement-Air Quality Connection*, Irvine, CA, June 2-3, 2009.



103. Ruan, M., Lin, J. (2009) Generating county-level freight data using freight analysis framework (FAF 2) for regional truck emissions estimation, *Transport Chicago*, June 5, 2009.
104. Ruan, M., Lin, J., Kawamura, K. (2009) Comparing the Efficiency of Commercial Vehicle Daily Tours in Star and Loop Trip Chaining Patterns in Texas Urban Areas, *2009 National Urban Freight Conference (NUFC)*, Long Beach, CA, October 21-23, 2009.
105. Lin, J., Ruan, M., Linquist, P., Kawamura, K. (2010) National County-Level Commodity Flow Data Viewer System, *Mississippi Valley Freight Coalition Annual Meeting*, Cincinnati, Ohio, April 27-29, 2010.
106. Ruan, M., Lin, J., Linquist, P., Kawamura, K. (2010) National County-Level Commodity Flow Database, *Transport Chicago 2010*, Chicago, IL, June 4, 2010.
107. Lin, J. (2010) National County-level Commodity Flow Data Generation and Analysis, *2010 Mid-Continent Transportation Research Forum*, invited, Madison, WI, August 19-20, 2010.
108. Vallamsundar, S., Lin, J., Chiu, YC, Bai, S., Eisinger, D. (2010) Linking MOVES and Dynamic Traffic Assignment Model: Integration Framework and Methodology, *1<sup>st</sup> International Symposium on Advances in Transport Sustainability*, Tempe, AZ, November 17-19, 2010.
109. Chen, Q., Adida, E., Lin, J. (2010) An Investigation in Real-time Bus Holding Policy, *15<sup>th</sup> HKSTS International Conference on Transportation and Urban Sustainability*, Hong Kong, December 11-14, 2010.
110. Chiu, YC, Lin, J., Vallamsundar, S., Bai, S. (2011) Enhancing MOVES Transportation and Air Quality Analysis by Integrating with Simulation-Based Dynamic Traffic Assignment, *13<sup>th</sup> TRB Transportation Planning Applications Conference*, Reno, NV, May 8-12, 2011.
111. Vallamsundar, S., Lin, J. (2011) Transportation Conformity Particulate Matter Hot-Spot Air Quality Modeling, *Conference on Transportation Planning, Land Use and Air Quality*, San Antonio, TX, May 9-10, 2011.
112. Chen, Q., Lin, J. (2011) Urban freight consolidation and routing, *National Urban Freight Conference*, Long Beach, CA, October 12-14, 2011.
113. Chen, Q., Lin, J. (2011) The Costs and Benefits of Urban Cooperative Delivery, *INFORMS "Cooperation and Coordination in Supply Chains" session*, Charlotte, NC, November 13-18, 2011.
114. Outwater, M.L., Smith, C., Sana, B., Chen, J., Yoder, S., Wies, K., Lin, J., Mohammadian, A., Kawamura, K. (2012) Tour-based and Supply Chain Modeling for Freight, *Innovations in Travel Modeling 2012*, Tampa, FL, Apr 30 – May 2, 2012.
115. Li, Qianfei, Chen, Q., Nie, Y., Lin, J., Homem-de-Mello, T. (2012) Optimal Routing for EcoDriving Under Uncertainties, *2012 Mid-Continent Transportation Research Forum*, Madison, Wisconsin, September 6-7, 2012.
116. Chen, Q., Lin, J. (2012) How Carbon Pricing Affects the Efficiency of Urban Delivery Cooperation? *INFORMS "City Logistics Impact Evaluations" session*, Phoenix, AZ, October 14-17, 2012.
117. Chen, Q., Lin, J. (2013) Environmental and cost-benefit evaluation of urban delivery consolidation, *2013 CFIRE Student Symposium*, University of Memphis, TN, February 5-6, 2013.
118. Zhou, W., Lin, J. (2014) Empirical Study of Urban Commercial Vehicle Tour Patterns in Texas, *Logistics, Trade and Transportation (LTT) Symposium*, Gulfport, Mississippi, February 26-27, 2014.
119. Vallamsundar, S., Lin, J. (2014) Characterizing Local Health Effects Due to PM Exposure from Mobile Sources, *2014 Transportation Planning, Land Use and Air Quality Conference*, Charlotte, NC, March 3-4, 2014.
120. Vallamsundar, S., Lin, J. (2014) Using Activity Based Travel Data to Quantify Emissions-to-Population Exposure Relationship from Transportation Sources, *2014 A&WMA Annual Conference & Exhibition*, Long Beach, CA, June 24-27, 2014.
121. Zhou, W., Lin, J. (2014) The Dynamic Pollution-Routing Problem with time-dependent travel time, *INFORMS Annual Meeting 2014*, San Francisco, CA, November 9-12, 2014.

122. Vallamsundar, S., Lin, J. (2015) A Holistic Evaluation Tool for Assessing Transportation Externalities, *2015 A&WMA Annual Conference & Exhibition*, Raleigh, NC, June 22-25, 2015.
123. Lin, J., Zhou, W. (2015) Electric Vehicle Routing Problem, *Vehicle Routing and Logistics Optimization (VeRoLog) 2015*, Vienna, Austria, June 8-10, 2015.
124. Lin, J., Wolfson, O. (2016) A Peer-to-Peer Marketplace for Spatio-temporal Transportation Resources and Truthfulness of its Users, *Session on "Working with transportation data from both public and private transportation services"*, *Convening on Urban Data Science*, Organized by University of Chicago, Chicago, IL, April 27-29, 2016.
125. Lin, J., Zhou, W. (2016) Is Electric Commercial Vehicle a Cost-effective Alternative to Diesel Commercial Vehicle in Urban Delivery? *28<sup>th</sup> EURO (European Conference on Operational Research)*, *session on Routing in Practice*, Poznan, Poland, July 3-6, 2016.
126. Ballare, S., Lin, J. (2017) Case Study of A Crowdsourced Package Delivery System. *58<sup>th</sup> Transportation Research Forum Annual Conference*, Chicago, IL, April 20-21, 2017.
127. Zhou, W., Lin, J. (2017) An On-demand Same-Day Delivery Service Using Direct Peer-to-Peer Transshipment Strategies, *1<sup>st</sup> Triennial TSL INFORMS Conference*, Chicago, IL, July 26-29, 2017.
128. Lin, J., Ballare, S. (2018) A Last Mile Delivery Paradigm Using Microhubs with Crowdshipping, *29<sup>th</sup> EURO (The European Operational Research)*, Valencia, Spain, July 8-11, 2018.
129. Miglionico, M., Lin, J., Wolfson, O. (2018) A Deep Learning Framework for Fine Grained Air Quality Prediction, *NASA Health and Air Quality Applied Sciences Team (HAQAST) meeting*, Madison, WI, July 16-17, 2018.
130. Zhang, L., Qiu, R., Lin, J. (2019) Comparison of Real-world Emissions of LDGVs of Different Vehicle Emission Standards on Both Mountainous and Level Roads in China, the *2019 A&WMA Annual Conference & Exhibition*, Quebec City, Quebec, June 25 – 28, 2019.
131. Ballare, S., Lin, J. (2019) A Many-to-many with Split Load Routing Problem, *INFORMS 2019*, Seattle, WA, October 20-23, 2019.
132. Shen, H., Lin, J. (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.
133. Ballare, S., Lin, J. (2021) A Many-to-Many Vehicle Routing Problem with Split Loads, *the International Symposium on Transportation Data & Modelling* (virtual), June 21-23, 2021.
134. Shen, H., Lin, J. (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.
135. Shen, H., Zou, B., Lin, J., 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.
136. Shen, H., Lin, J. (2021) The behavior prediction of senders and couriers in a real-world crowdshipping system, *INFORMS*, Anaheim, CA, October 24-27, 2021.

#### 14. 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.

### 15. Edited Meeting Proceedings

1. Lin, J., W. Pu, 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., W.G. Zyznieuski, W. Pu (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.

### 16. Published Technical Reports

1. Lin, J., W. Pu, 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, 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., 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.

### 17. Funding History

1. PI, “Development of Commercial Vehicle Emission Inventory and Analysis”, Illinois Center for Transportation (ICT), \$500,000 (including \$125,000 cost share), August 16, 2021 – August 15, 2023
2. PI, “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-August 15, 2023.
3. 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 – August 15, 2021.

4. Co-PI, "Human Health Impacts of Higher Ethanol Blends in 5 Capitals", PI: S. Mueller, the U.S. Grains Council, \$110,000, July 2018 – December 2018.
5. Co-I, "Higher Blend Level Impacts on Emissions and Climate in Five Cities", PI: Mueller, the US Grains Council, \$210,000, May 2017 – September 2018.
6. PI (UIC subward), "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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. PI, "Transportation Conformity Particulate Matter Hot-Spot Air Quality Modeling", Illinois Center for Transportation (ICT), \$73,739, November 2010 – June 2013.
14. 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.
15. Co-PI, "IIS-0957394: EAGER: The IntelliDrive Database Management System", PI: O. Wolfson, National Science Foundation (NSF), \$100,000, January 2010 – December 2010.
16. 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.
17. 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.
18. 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.
19. PI, "Mississippi Valley Commodity Flow Project", co-PI: K. Kawamura, Midwest Freight Coalition (formerly Mississippi Valley Freight Coalition), \$49,887, August 2009-February 2011.
20. 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.
21. Co-PI, "Post-Implementation Evaluation of Emissions Benefits of CMAQ Projects, Phase I", PI: P. Thakuria, Chicago Metropolitan Agency for Planning (CMAP), \$122,304, July 2008 – June 2009.
22. 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.
23. Co-PI, "Design of a Travel Time Information System for Dynamic Content Dissemination & Management", PI: P. Thakuria, NAVTEQ (now Here.com), \$35,000, September 2007-December 2007.

24. PI, "Project level PM2.5 and PM10 hotspot analysis: a peer exchange", Illinois Center for Transportation (ICT), \$45,000, July 2007 – February 2008.
25. 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.
26. 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.
27. Co-I, "Center for Supply Chain Management and Logistics", PI: Pagano, UIC 2010 Seed Grant, \$75,000, January 2006 – December 2006.
28. 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.
29. 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.
30. 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 of Environmental Science and Policy, UIC, \$15,000, June 2004 – June 2005.
31. PI, "Incorporation of metacognitive learning in transportation engineering curriculum", University of Illinois at Chicago 2003-2004 Curriculum and Instructional Grants, \$10,000, June 2004 – June 2005.
32. 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.

## 18. Teaching Experience

### Undergraduate required course:

#### 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 course:

#### 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 494 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 course:

#### 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.

**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.

## **19. 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.

## **20. 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 (October 2018-present): Infrastructure/Transport/Mobility Expert, Boston Consulting Group (BCG), Washington D.C.

*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): Data Scientist, HERE (formerly Navteq), Chicago, IL.

*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): 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; previous employments: Operations Research Analyst, JD.com R&D Center, Silicon Valley, CA (JD.com is China's largest e-commerce logistics company).

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

- Thesis title: "Investigation in Crowdshipping Enabled Urban/Last-mile Delivery Paradigms",
- Current employment (January 2021 – present): Postdoc researcher, University of Maryland.

### **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): assistant 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 2019- present): assistant professor, Compute Science, Trinity International University, Deerfield, IL.

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

*Hui Shen* (August 2017 – present), thesis research on crowdshipping two-sided market.

### **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): Senior Transportation Engineer/Project Manager, IBI Group, Boston, MA.

*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 (January 2017-present): Research engineer - autonomous driving research laboratory, Ford Motor Company, Dearborn, MI.

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

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

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

*Marco Miglionico* (Computer Science, 2018):

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

*Luca Dibattista* (Computer Science, expected 2021):

- Thesis title: "Deep learning inference of personalized air pollution intakes" (primary advisor: Dr. Ouri Wolfson).

#### **g) Visiting students supervised**

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

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

- 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* (December 2019, Fujian University of Forestry and Agriculture):

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



**h) Other thesis committees**

<b>Name</b>	<b>Thesis chair</b>	<b>Year</b>	<b>Degree</b>	<b>Program</b>
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 (U. 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
Ali Shamshiripour	A. Mohammadian	2021	Ph.D.	Civil Engineering
Ehsan Rahimi	A. Mohammadian	2021	Ph.D.	Civil Engineering

#### **i) Non-thesis MS students supervised**

Bui Lien, Civil Engineering, UIC (MS, 2006)  
Tom Brecheisen, Civil Engineering, UIC (MS, 2008)  
Ragheed Alfarra, Civil Engineering, UIC (MS, 2017)  
Vinay Indrajit Chavan, Computer Science, UIC (MS, 2021)  
Mitchell Horn, Civil Engineering, UIC (MS, 2021)

#### **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 “Environmental 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

## 21. Professional Service

### External Reviewer/Expert:

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 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. Environmental Modeling & Software
9. Environmental Pollution
10. Environmental Research
11. Environmental Science & Technology
12. Geoinformatica
13. Information & Management
14. International Journal of Sustainable Transportation
15. IEEE Transactions on Automation Science and Engineering
16. IEEE Transactions on Mobile Computing
17. IEEE Transactions on Vehicle Technology
18. IEEE Transactions on Intelligent Transportation Systems
19. Journal of Advanced Transportation
20. Journal of Applied Statistics
21. Journal of Atmospheric Pollution Research
22. Journal of Cleaner Production
23. Journal of Environmental Management

24. Journal of the Air & Waste Management Association
25. Journal of Transport Geography
26. Journal of Transport & Health
27. Transportation Research Record: Journal of the Transportation Research Board
28. Networks and Spatial Economics
29. Public Transport
30. Science of the Total Environment
31. Sustainable Cities and Society
32. Transport Policy
33. Transportmetrica A Transport Science
34. Transportmetrica B Transport Dynamics
35. Transportation
36. Transportation Letters
37. Transportation Research Part A: Transportation Planning and Policy
38. Transportation Research Part B: Methodological
39. Transportation Research Part C: Emerging Technologies
40. Transportation Research Part D: Transportation and the Environment
41. Transportation Research Part E: Transportation Review and Logistics
42. Transportation Science
43. 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. International Association on Travel Behavior Research Conference (IATBR 2006)
4. IEEE Conference on Intelligent Transportation Systems
5. ISTTT 2017
6. ITS World Congress
7. Transportation Research Board (TRB) annual meetings and summer conferences
8. World Conference on Transportation Research (WCTR)
9. 11th International Conference of Chinese Transportation Professionals (ICCTP2011)
10. 15th IEEE International Conference on Networking, Sensing and Control (ICNSC 2018)
11. ASCE International Conference on Sustainable Infrastructure (ICSI 2021)

Proposal reviewer:

1. National Science Foundation (NSF)
2. Department of Defense (DoD)
3. National Cooperative Highway Research Program (NCHRP)
4. Canadian Natural Sciences and Engineering Research Council
5. Canada Foundation for Innovation (CFI)
6. Canada Research Chairs Program
7. Canada New Frontiers in Research Fund (NFRF)
8. Chilean National Commission for Scientific & Technological Research
9. Chinese Natural Science Foundation
10. Harvard University China Fund
11. UCCONNECT (UC Berkeley)

12. PATH (UC Berkeley)
13. Research Grant Council of Hong Kong (RGC)
14. University of California Transportation Center (UCTC)
15. UC Davis University Transportation Center (UTC)
16. OTREC (Oregon State University)
17. UTRC (City University of New York)
18. UDUTC (University of Delaware)
19. MATS UTC (University of Virginia)
20. Campus Research Board (UIC)

Conference/workshop organizing 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.

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 - present.
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.

## 22. 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. CS head search committee (2009 – 2010)
3. UTC director search committee (2008-2011)
4. Faculty Research Award Committee (2010-2011)
5. COE Student Awards Committee, Spring 2011 – August 2012
6. Host of the COE Paul-Chung Distinguished Lecture, March 2<sup>nd</sup> 2010
7. UTC executive director search committee (2015-2016)
8. COE Executive Committee (2019-2020)

### Departmental level:

1. Recurring committee service: graduate committee, undergraduate committee, computer and lab committees, recruitment committee
2. Faculty search committees (6), Civil and Materials Engineering at UIC
3. Symposium committee, Urban Transportation Center at UIC (Spring 2004)
4. Departmental advisory committee (2009-2010)
5. Host of CME Wisest Visitor Scholar Seminar, March 17<sup>th</sup>, 2010
6. CME 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)

## 23. Media coverage

1. 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>
2. Interviewed by NPR on ASCE's 2013 infrastructure report card.
3. Illinois Center for Transportation (ICT) Principal Investigator Spotlight (November 2011): <http://ict.illinois.edu/2011/11/17/ict-principal-investigator-spotlight-jane-lin-uic/>
4. Featured research profile on TR News by TRB, November-December 2020 issue, <https://drive.google.com/file/d/1Izeg-0KhHK7vz6fqXIGAZeZaJRet04-3/view?usp=sharing>.