

Karthik Charan Konduri, Ph.D.

Assistant Professor

Department of Civil and Environmental Engineering

University of Connecticut

261 Glenbrook Road, Unit 3037

Storrs, CT 06269-3037, USA.

Phone: 860-486-2733; Fax: 860-486-2298; Email: kkonduri@engr.uconn.edu

EDUCATION

- Arizona State University, Tempe, AZ, USA
 - Ph.D., Civil Engineering, February 2012
 - University of Kentucky, Lexington, KY, USA
 - M.S., Civil Engineering, 2006
 - Institute of Technology, Banaras Hindu University, Varanasi, UP, India
 - B.S., Civil Engineering, 2004
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PROFESSIONAL EXPERIENCE

- **Assistant Professor,** August 2012 - present
Department of Civil and Environmental Engineering, University of Connecticut, Storrs, CT
 - **Postdoctoral Researcher,** February 2012- August 2012
School of Sustainable Engineering and the Built Environment, Arizona State University, Tempe, AZ
 - **Graduate Research Associate,** January 2007- February 2012
School of Sustainable Engineering and the Built Environment, Arizona State University, Tempe, AZ
 - **Transportation Engineer,** May 2006-December 2006
Strand Associates Inc., Joliet, IL
 - **Graduate Research Assistant,** July 2005-May 2006
Department of Civil Engineering, University of Kentucky, Lexington, KY
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RESEARCH INTERESTS

- Activity-based Travel Behavior and Time Use Analysis
 - Travel Demand Modeling and Forecasting
 - Transportation Planning and Policy Analysis
 - Integrated Models of Land Use and Transportation
 - Econometric and Statistical Modeling Methodologies
 - Planning Software Development and Implementation
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TEACHING INTERESTS

- Undergraduate-level Courses: Introduction to Transportation Engineering, Probability and Statistics
 - Graduate-level Courses: Activity-based Travel Behavior and Time Use Analysis, Transportation Planning and Applications, Modeling Urban Systems and the Built Environment, Statistical and Econometric Methods in Civil Engineering, Sustainable Transportation Systems
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RESEARCH EXPERIENCE

Projects at University of Connecticut

- ❑ **Update of California Statewide Freight Forecasting Model (CSFFM) and California Statewide Travel Demand Model (CSTDM): Synthetic Population Generation** (Sponsor Agency: California Department of Transportation; Role: Project PI; Duration: August, 2016 – December, 2017)
- ❑ **Connecticut Statewide Transportation Study** (Sponsor Agency: Connecticut Department of Transportation; Role: Project Co-PI; Duration: July, 2015 – December, 2016)
- ❑ **Exploration of Human Psychological Factors Underlying Mobile Phone Usage Behaviors while Driving** (Sponsor Agency: New England University Transportation Center; Role: Project PI; Duration: August, 2014 – May, 2017)
- ❑ **A Vision-Based Traffic Monitoring System for Vehicle Detection and Vehicle Classification** (Sponsor Agency: Connecticut Cooperative Transportation Research Program, Role: Project PI; Duration: August, 2014 – December 2016)
- ❑ **Updates to the BMC Population Synthesis Model: Incorporating Controls at Multiple Geographic Resolutions** (Sponsor Agency: Baltimore Metropolitan Council, Role: Project PI; Duration: August, 2014 – February 2015)
- ❑ **Crowdsourcing Real-Time Traveler Information Services: Issues, Challenges and Recommendations** (Sponsor Agency: New England University Transportation Center; Role: Project PI; Duration: August, 2013 – December, 2015)
- ❑ **Modeling Transportation Systems in the Information Era** (Sponsor Agency: New England University Transportation Center; Role: Project PI; Duration: August, 2012 – December, 2015)
- ❑ **Economic Impact of Transportation Projects: Assessing Economic Development Value as a Result of Transportation Projects and Systems** (Sponsor Agency: Connecticut Academy of Science and Engineering; Role: Project PI; Duration: September, 2012 – June, 2013)
- ❑ **SHRP C46: Resource on Advanced Integrated Models and an Implementation Strategy** (Sponsor Agency: Strategic Highway Research Program, Transportation Research Board; Role: Technical Advisor; Duration: March 2013 – May 2014)

Projects at Arizona State University

- ❑ **Modeling the Urban Continuum in an Integrated Framework: Location Choice, Activity-Travel Behavior and Dynamic Traffic Patterns**
The project is aimed at developing methodologies, feedback mechanisms, data structures, and computational and analytical tools that allow the integration of three key dimensions of urban

systems modeling namely – Land Use, Activity-Travel Demand, and Traffic Microsimulation. (2008 – present)

- Part of the team that designed the framework for integrating the component model systems
- Contributed to the development of software interfaces that enable communication across model systems
- Lead student researcher involved in the design and development of the activity-based demand model software dubbed OpenAMOS (see **OpenAMOS** under **Transportation Planning Software** below for additional information)
- Assisted my advisor with project management tasks and coordinated efforts with other project members from University of Arizona, and University of California at Berkeley

□ **Development of an Online Transportation Planning Survey Data Portal for Maricopa Association of Governments**

The project was aimed at designing and developing an online portal to host all transportation and related data sets utilized by Maricopa Association of Governments for their planning studies. Further, the project involved incorporating functionality to conduct basic statistical analysis and GIS mapping capabilities to the online data portal (2011 – 2012).

- Designed the schema and was involved in the implementation of the MSSQL database supporting the online web portal
- Part of the team involved in the design and development of the GIS functionality on the web portal

□ **Baltimore Metropolitan Council Regional Travel Demand Model Update: Development of A Synthetic Population Generator**

As part of this research effort, PopGen – a synthetic population generator (see **PopGen** under **Transportation Planning Software** for additional information) was modified and customized to be integrated with the current four-step travel demand model environment (supported by **Citilabs Cube** software platform). In addition, a prototype of population evolution model was designed, developed and implemented. The population evolution model mimics various household- and person-level socio-economic and demographic life-cycle processes that individuals experience from one year to the next. The resulting synthetic population can then be used to run microsimulation models of land use and transportation for a forecast year. (2010 – 2011)

- Modified the PopGen software to be integrated with the BMC four-step travel demand model
- Developed a prototype of population evolution model using the OpenAMOS software framework

□ **Activity-based Travel Demand Model Development for the Southern California Association of Governments**

The project is aimed at implementing a state-of-art activity-based travel demand model system for Los Angeles and surrounding counties.

- Generated synthetic populations for 2003, 2008, and 2035 horizon years using PopGen – a synthetic population generator. The generated synthetic population was then used to simulate

activity-travel patterns using a travel demand model system dubbed CEMDAP – Comprehensive Econometric Micro-simulator for Daily Activity-travel Patterns. (2009-present)

□ **Activity-based Travel Demand Model Development for the Maricopa Association of Governments**

The main goal of the project is to implement an activity-based travel demand model system using the CT-RAMP (Coordinated Travel Regional Activity-Based Modeling Platform) framework. A number of enhancements were also envisioned to improve the behavioral realism and policy sensitivity of the travel demand model. One of the enhancements was to better represent and locate the student population of Arizona State University (ASU) – the largest university within the model region. (2010 - present)

- Part of team that designed the framework for synthesizing and locating ASU’s student population in the model region
- Estimated models of key dimensions of interest including, household living arrangement and household location choice

□ **Analysis of Travel Demand and Mode Use Patterns for Arizona State University**

The project was aimed at understanding the travel demand and mode use patterns at Arizona State University and to estimate ridership on the planned light rail that can be attributed to individuals affiliated with the university. (2007 – 2008)

- Involved in the design, pilot testing and administration of Stated Preference-Revealed Preference (SP-RP) travel survey
- Led a team of undergraduate researchers to collect and process travel survey data
- Designed an approach to estimate and analyze existing mode-use patterns and to forecast the university’s contribution to a planned light rail system

Transportation Planning Software

□ **PopGen – Population Generator**

An open-source software for generating synthetic populations for use in microsimulation models of Land Use and Travel Demand (2008 - present)

Link: <http://code.google.com/p/populationsynthesis/>

- Lead programmer involved in the design and development of the software
- Actively involved in enhancing existing features and adding new ones
- Assisted with the implementation of PopGen across United States for research projects - *Federal Highway Administration’s Strategic Highway Research Program (SHRP)*, and *Federal Highway Administration’s Exploratory Advanced Research Program (EARP)* and planning agencies - *Southern California Association of Governments (SCAG)*, *Baltimore Metropolitan Council (BMC)*, *Maricopa Association of Governments (MAG)*, and *Denver Regional Council of Governments (DRCOG)* among others

□ **OpenAMOS – Open-source Activity Mobility Simulator**

An open-source travel demand model system for generating activity-travel patterns for the population in a region. The software framework was primarily developed to implement a

microsimulation-based travel demand model system. However, the software framework is robust enough to accommodate any microsimulation model system (recently the framework was used to implement a prototype of population evolution model for BMC region). (2010 - present)

Link: <http://code.google.com/p/simtravel/>

- Lead programmer involved in the design and development of the software
 - Managed team of developers working on various components of the software system including the core algorithms, graphic user interfaces, and output analysis and visualization
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TEACHING EXPERIENCE

Courses at University of Connecticut

- CE 2210: Decision Analysis and Civil and Environmental Engineering (Fall 2014)
- CE 2211: Engineering Economics (Fall 2015, Fall 2016)
- CE 2110: Applied Mechanics I (Spring 2013, Spring 2015)
- CE 6730: Travel Demand Forecasting (Spring 2014, Spring 2016)
- CE 4730/5730: Transportation Planning (Fall 2013, Fall 2015)
- CE 5090: Statistical and Econometric Methods for Transportation Data Analysis (Spring 2015)
- CE 5030: Seminar in Transportation and Urban Engineering (Spring 2014, Spring 2016)

Courses at Arizona State University

- CEE 598: Travel Behavior Analysis (Spring 2009, Spring 2011)
 - Served as a teaching assistant and was involved in teaching the laboratory portion of the course. The laboratory part involved training students in the use of various statistical and econometric analysis tools including SPSS, LIMDEP, NLOGIT, and SPSS Amos for modeling various dimensions of activity-travel behavior.
- CEE 372: Introduction to Transportation Engineering (Fall 2009)
 - Served as a teaching assistant and lectured few introductory transportation engineering topics including vehicle kinematics, sight distances, horizontal and vertical geometric design, and introduction to transportation planning.

Professional Workshops

- **Workshop on PopGen - A Synthetic Population Generator for Microsimulation Modeling of Land Use and Transportation**
 - Workshops conducted to date:
 - At Baltimore Metropolitan Council, June 16-17, 2011
 - At Arizona State University, May 12-13, 2010
 - At Arizona State University, November 3, 2009
 - At Southern California Association of Governments, September 8, 2009

One of the main goals of the workshops was to teach practitioners about the motivations, concepts and methodologies for generating a synthetic population in the context of Microsimulation models of Land Use and Transportation. The workshops included a hands-on training module where

participants were taught to use PopGen – An open source Synthetic Population Generator. I was the lead instructor for the hands-on training module and assisted my advisor with other modules.

PUBLICATIONS IN REFEREED JOURNALS

1. Enam, A., Konduri, K.C., Pinjari, A., and Eluru, N. (2017). A Hybrid Multiple Discrete Continuous (HMDC) Model for Examining the Role of Moods on Daily Activity Engagement Choices. *Journal of Choice Modelling*. (Under Review)
2. Enam, A., Konduri, K.C., Eluru, N., and Ravulaparthi, S. (2016). Relationship between Well-Being and Daily Time Use of Elderly: Evidence from the Disabilities and Use of Time Survey. *Transportation*. (Under Review)
3. Enam, A., and Konduri, K.C. (2017). A Continuous Time and Temporally Constrained Tour Pattern Generation System for Jointly Modeling Daily Tours and Stops: Application of a Bi-level Multiple Discrete Continuous Probit (MDCP) Model. *Transportation Research Record, Journal of the Transportation Research Board*. (Accepted)
4. Ravulaparthi, S.K., Konduri, K.C., and Goulias, K.G. (2017). Exploring the Role of Activity Time Frontiers on Emotional Well-being: An Evidence from Disability and Use of Time Survey. *Transportation Research Board and Publication to the Transportation Research Record, Journal of the Transportation Research Board*. (Accepted)
5. Komanduri, A., and Konduri, K.C. (2017). Using Work Location and Industry Classification Information in the Weighting of Household Surveys using Open Source Frameworks. *Transportation Research Record, Journal of the Transportation Research Board*. (Accepted)
6. Angueira, J., Konduri, K.C., Chakour, V., and Eluru, N. (2017). Exploring the Relationship Between Vehicle Type Choice and Distance Traveled: A Latent Segmentation Approach. *Transportation Letters*. (Accepted)
7. Konduri, K.C., You, D., Garikapati, V., and Pendyala, R.M. (2016). Enhanced Synthetic Population Generator That Accommodates Control Variables at Multiple Geographic Resolutions. *Transportation Research Record, Journal of the Transportation Research Board*, 2563, pp. 40-50.
8. Ravulaparthi, S., Konduri, K.C., and Goulias, K. (2016). Fundamental Linkages Between Activity Time-Use and Subjective Well-being for Elderly Population: A Joint Exploratory Analysis Framework for In-home and Out-of-Home Activities. *Transportation Research Record, Journal of the Transportation Research Board*, 2566, pp. 31-40.
9. Vallamsundar, S., Lin, J., Konduri, K.C., Zhou, X., and Pendyala, R.M. (2016). A Comprehensive Modeling Framework for Transportation-induced Population Exposure Assessment. *Transportation Research Part D: Transport and Environment*, 46, pp. 94-113.
10. Wang, K., Yasmin, S., Konduri, K.C., and Eluru, N. (2015). A Copula-based Joint Model of Injury Severity and Vehicle Damage in Two-Vehicle Crashes. *Transportation Research Record, Journal of the Transportation Research Board*, 2514, pp. 158-166.
11. Angueira, J., Faghieh-Imani, A., Enam, A., Konduri, K.C., and Eluru, N. (2015). Exploration of Short Term Vehicle Utilization Choices in Households with Multiple Vehicle Types. *Transportation Research Record, Journal of the Transportation Research Board*, 2493, pp. 39-47.
12. Ye, X., Pendyala, R.M., Shankar, V.N., and Konduri, K.C. (2013). A Simultaneous Equations Model of Accident Frequency by Severity Level for Freeway Sections. *Accident Analysis and Prevention*, 57, pp. 140-149.

13. Archer, M., Paleti, R., Konduri, K.C., Pendyala, R.M., and Bhat, C.R. (2013). Modeling the Connection Between Activity-Travel Patterns and Subjective Well-Being. *Transportation Research Record, Journal of the Transportation Research Board*, 2382, pp. 102-111.
14. Bhat, C.R., Paleti, R., Pendyala, R.M., Lorenzini, K., and Konduri, K.C. (2013). Accommodating Immigration Status and Self Selection Effects in a Joint Model of Household Auto Ownership and Residential Location Choice. *Transportation Research Record, Journal of the Transportation Research Board*, 2382, pp. 142-150.
15. Volosin, S., Paul, S., Christian, K., Konduri, K.C., Pendyala, R. M. (2013). Exploring the Dynamics of Travel Time Frontiers. *Transportation Research Record, Journal of the Transportation Research Board*, 2382, pp. 20-27.
16. Pendyala, R.M., Konduri, K.C., Chiu, Y., Hickman, M., Noh, H., Waddell, P., Wang, L., You, D., and Gardner, B. (2012). Integrated Land Use-Transport Model System with Dynamic Time-Dependent Activity-Travel Microsimulation. *Transportation Research Record, Journal of the Transportation Research Board*, 2303, pp. 19-27.
17. Pendyala, R.M., Bhat, C.R., Goulias, K.G., Paleti, R., Konduri, K.C., Sidharthan, R., Hu, H., Huang, G., and Christian, K.P. (2012). Application of Socioeconomic Model System for Activity-Based Modeling. *Transportation Research Record, Journal of the Transportation Research Board*, 2303, pp. 71-80.
18. Konduri, K.C., Ye, X., Sana, B., and Pendyala, R.M. (2011). Joint Model of Vehicle Type Choice and Tour Length. *Transportation Research Record, Journal of the Transportation Research Board, Journal of the Transportation Research Board*, 2255, 28-37.
19. Konduri, K.C., Astroza, S., Sana, B., Pendyala, R.M., and Jara-Díaz, S.R. (2011). Joint Analysis of Time Use and Consumer Expenditure Data. *Transportation Research Record, Journal of the Transportation Research Board*, 2231, 53-60.
20. Ferdous, N., Pendyala, R.M., Bhat, C.R., Konduri, K.C. (2011). Modeling the Influence of Family, Social Context, and Spatial Proximity on Non-Motorized Transport Mode. *Transportation Research Record, Journal of the Transportation Research Board*, 2230, 111-120.
21. Goulias, K.G., Bhat, C.R., Pendyala, R.M., Chen, Y., Paleti, R., Konduri, K.C., Huang, G., and Hu, H. (2011). Simulator of activities, greenhouse emissions, networks, and travel (SimAGENT) in Southern California: Design, implementation, preliminary findings, and integration plans. 2011 IEEE Forum on Integrated and Sustainable Transportation Systems, Article Number 5973624, pp. 164-169.
22. Konduri, K.C., Ye, X., and Pendyala, R.M. (2010). Probit-based Discrete Continuous Model of Activity Choice and Duration with History Dependency. *Transportation Research Record, Journal of the Transportation Research Board*, 2156, 17-27.
23. Plotz, J., Konduri, K.C., and Pendyala, R.M. (2010). To What Extent Can High-Occupancy Vehicle Lanes Reduce Vehicle Trips and Congestion? *Transportation Research Record, Journal of the Transportation Research Board*, 2178, 170-176.
24. Sana, B., Konduri, K.C., and Pendyala, R.M. (2010). Quantitative Analysis of Impacts of Moving Towards a Vehicle Mileage-Based User Fee. *Transportation Research Record, Journal of the Transportation Research Board*, 2187, 29-35.
25. Ziems, S.E., Konduri, K.C., Sana, B., and Pendyala R.M. (2010). Exploration of Time Use Utility Derived by Older Individuals from Daily Activity-Travel Patterns. *Transportation Research Record, Journal of the Transportation Research Board*, 2156, 111-119.

26. Eluru, N., Bhat, C.R., Pendyala, R.M., and Konduri, K.C. (2010). A Joint Flexible Econometric Model System of Household Residential Location and Vehicle Fleet Composition/Usage Choices. *Transportation*, 37(4), 603-626.
27. Pendyala, R.M., Verma, A., Konduri, K., and Sana, B. (2009). Socio-economic and Transportation Trends in India and the United States: A Preliminary Comparative Study. *Transportation Letters*, 1(2), 121-146.
28. Ye, X., Konduri, K.C., Pendyala, R.M., and Sana, B. (2009). Formulation of an Activity-Based Utility Measure of Time Use: An Application to Understanding the Influence of Constraints. *Transportation Research Record, Journal of the Transportation Research Board*, 2135, 60-68.
29. Ye, X., Pendyala, R.M., Washington, S.P., Konduri, K., and Oh, Juttaek. (2009). A Simultaneous Equations Model of Accident Frequency by Collision Type for Rural Intersections. *Safety Science*, 47(3), 443-452.

PUBLICATIONS IN REFEREED CONFERENCE PROCEEDINGS

1. Konduri, K.C., Enam, A., Ritter, C., Lownes, N.E., and Raymond, J. (2016). Exploring the Implications of Item Non Response Treatment on Survey Expansion and Weighting: Experience from the Connecticut Statewide Transportation Study. *Proceedings of the 96th Annual Meeting of the Transportation Research Board*, Washington, D.C.
2. Enam, A., Konduri, K.C., Pinjari, A., and Eluru, N. (2016). A Hybrid Multiple Discrete Continuous (HMDC) Model for Examining the Role of Moods on Daily Activity Engagement Choices. *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, Washington, D.C.
3. Enam, A., Konduri, K.C., Eluru, N., and Ravulaparthi, S. (2014). Relationship between Well-Being and Daily Time Use of Elderly: Evidence from the Disabilities and Use of Time Survey. *Proceedings of the 94th Annual Meeting of the Transportation Research Board*, Washington, D.C.
4. Doran, D., Gokhale, S.S., and Konduri, K.C. (2014) Participatory Paradigms: Promises and Challenges for Urban Transportation. *Proceedings of the 93rd Annual Meeting of the Transportation Research Board*, Washington, D.C.
5. Goulias, K.G., Ravulaparthi, S., Konduri, K.C., and Pendyala, R.M. (2014). Using Synthetic Population Generation to Replace Sample and Expansion Weights in Household Surveys for Small Area Estimation of Population Parameters. *Proceedings of the 93rd Annual Meeting of the Transportation Research Board*, Washington, D.C.
6. Konduri, K.C., Pendyala, R.M., You, D., Chiu, Y, Hickman, M., Noh, H., Waddell, P., Wang, L., and Gardner, B. (2013). A Network-Sensitive Transport Modeling Framework for Evaluating Impacts of Network Disruptions on Traveler Choices under Varying Levels of Information Provision. *Proceedings of the 92nd Annual Meeting of the Transportation Research Board*, Washington, D.C.
7. You, D., Garikapati, V.M., Konduri, K.C., Pendyala, R.M., Vovsha, P.S., and Livshits, V. (2013) A Multiple Discrete-Continuous Model of Activity Type Choice and Time Allocation for Home-Based Non-Work Tours. *Proceedings of the 92nd Annual Meeting of the Transportation Research Board*, Washington, D.C.
8. Paleti, R., Pendyala, R.M., Bhat, C.R., and Konduri, K.C. (2012). A Joint Tour-Based Model of Tour Complexity, Passenger Accompaniment, Vehicle Type Choice, and Tour Length. *Proceedings of the 91st Annual Meeting of the Transportation Research Board*, Washington, DC.

9. Goulias, K.G., Bhat, C.R., Pendyala, R.M., Chen, Y., Konduri, K.C., Paleti, R., and Hu, H. (2012). Simulator of Activities, Greenhouse Emissions, Networks, and Travel (SimAGENT) in Southern California. *Proceedings of the 91st Annual Meeting of the Transportation Research Board*, Washington, DC.
10. Konduri, K.C., Paleti, R., Pendyala, R., and Bhat, C. (2010). A Joint Tour-Based Model of Vehicle Type Choice, Tour Length, Passenger Accompaniment, and Tour Type. *Proceedings of the 12th World Conference on Transport Research*, Lisbon, Portugal.
11. Ye, X., Konduri, K.C., Sana, B., and Pendyala, R.M. (2009). A Methodology to Match Distributions of Both Household and Person Attributes in the Generation of Synthetic Populations. *Proceedings of the 88th Annual Meeting of the Transportation Research Board*, Washington, DC.
12. Bar-Gera, H., Konduri, K.C., Sana, B., Ye, X., and Pendyala, R.M. (2009). Estimating Survey Weights with Multiple Constraints Using Entropy Optimization Methods. *Proceedings of the 88th Annual Meeting of the Transportation Research Board*, Washington, DC.
13. Ye, X., Pendyala, R.M., Al-Rukaibi, F.S., and Konduri, K.C. (2008). A Joint Model of Accident Type and Severity for Two-Vehicle Crashes. *Proceedings of the 87th Annual Meeting of the Transportation Research Board*, Washington, DC.
14. Rose, J.G., and Konduri, K.C. (2006). Kentrack - A Railway Trackbed Structural Design Program. *Proceedings of the 2006 Annual Conference of the American Railway Engineering and Maintenance-of-Way Association*, Louisville, KY.

PUBLICATIONS IN BOOKS

1. Ivan, J.N., and Konduri, K.C. (2016). Crash Severity Methods. Transport and Sustainability Book Series - Safe Mobility: Methodology and Crash Data Analysis, Volume 9, Chapter 11. (*Under Review*)
2. Konduri, K.C., Pendyala, R.M., You, D., Chiu, Y., Hickman, M., Noh, H., Waddell, P., Wang, L., and Gardner, B. (2013). An Examination of Alternative Paradigms for the Integration of Activity-Travel Demand and Dynamic Network Models. In E. Miller and M. Roorda (eds.) *The 13th International Conference on Travel Behavior Research*, Lulu.com Publishers, USA, pp. 321-344.
3. Konduri, K.C., Pendyala, R.M., You, D., Chiu, Y., Hickman, M., Noh, H., Waddell, P., Wang, L., and Gardner, B. (2013). Reflecting the Impacts of System-wide Pricing Strategies in an Integrated Continuous-Time Prism-Constrained Activity-Travel Simulator of Demand and Supply. In D. Janssens, A. Yasar, and L. Knäpen (eds.) *Data Science and Simulation in Transportation Research*, IGI Global, Hershey, PA, pp. 86-102.
4. Miller, E.J., and Konduri, K.C. (2012). Workshop Report: Computational Algorithms and Procedures for Microsimulation Models. In C.R. Bhat and R.M. Pendyala (eds.) *Travel Behaviour Research in an Evolving World*, Lulu.com Publishers, USA, pp. 339-340.
5. de Palma, A., Jayakrishnan, R., and Konduri, K.C. (2012). Workshop Report: Advances in Network Modelling Network Dynamics: Incorporating Behavioral Considerations. In C.R. Bhat and R.M. Pendyala (eds.) *Travel Behaviour Research in an Evolving World*, Lulu.com Publishers, USA, pp. 339-340.
6. Pendyala, R.M. and K.C. Konduri (2011) An Activity-Based Analysis of Time Use to Assess the Influence of Information and Communication Technologies for Mobility Patterns. In J.A. Carrasco, S. Jara-Díaz, and M. Munizaga (eds.) *Time Use Observatory*, Universidad de Chile, Santiago, Chile, pp. 71-84.
7. Pendyala, R.M., Konduri, K.C., and Plotz, J. (2009). Non-Motorized Transportation. In *the 94th Arizona Town Hall: Background Report*, Tucson, AZ, April 19-22, 2009.

WORKING PAPERS

1. Enam, A., Konduri, K.C., and Lownes, N.E. Exploring the Relationship between Perceived Quality of Service and Frequency of Transit Ridership: Evidence from Metropolitan-North Railroad Customer Satisfaction Survey.
2. Enam, A., and Konduri, K.C. Comparison of Activity Engagement Behaviors among Five Birth Cohorts: GI Generation, Silent Generation, Baby Boomers, Generation X, and Millennials.
3. Enam, A., Konduri, K.C., and Dalal, D. A Psycho-social Examination of Mobile Internet Usage during Driving.
4. Severin, K., and Gokhale, SS., and Konduri, K.C. Automated Quantitative Analysis of Open-Ended Survey Responses for Transportation Planning.
5. Enam, A., and Konduri, K.C. Exploring the Psychological Factors that Underlie Participation and Engagement in Crowdsourced Traveler Information Solutions.
6. Konduri, K.C., Ning, Y., Pendyala, R.M., and Zhou, X. Modeling Behavioral Response to Real Time Traveler Information: An Application of a Continuous-Time Integrated Modeling Framework.
7. Konduri, K.C., Rehan, A., and Lownes, N. A Crowdsourced Real-Time Traveler Information System
8. Enam, A., Konduri, K.C., Eluru, N., and Pinjari, A. An Integrated Framework for Modeling Budget and Multiple Discrete Continuous Choices.

RESEARCH REPORTS

1. Konduri, K.C., Lownes, N.L., and Angueira, J. (2013) Analyzing the Economic Impacts of Transportation Projects. A Technical Report Prepared for the Connecticut Department of Transportation through the Connecticut Academy of Science and Engineering.

PRESENTATIONS

Conferences

1. You, D., Garikapati, V., Konduri, K.C., and Pendyala, R.M. A Continuous-Time Integrated Transport Model System for Simulating the Impacts of Dynamic and Active Mobility Management Strategies. Presented at the *2016 Conference on Innovations in Travel Demand Forecasting*, Denver, CO, May 1-4, 2016.
2. Konduri, K.C., You, D., Garikapati, V., and Pendyala, R. Exploring the Implications of Alternative Household- and Person-level Constraints at Multiple Spatial Resolutions in Synthetic Population Generation. Presented at the *2016 Conference on Innovations in Travel Demand Forecasting*, Denver, CO, May 1-4, 2016.
3. Konduri, K.C., and Rehan, A. Trajectory-based Regression Approach to Predict Real-Time Traveler Information Using Crowdsourced Location Traces. Presented at the *2016 Conference on Innovations in Travel Demand Forecasting*, Denver, CO, May 1-4, 2016.
4. Enam, A., Konduri, K.C., Pinjari, A., and Eluru, N. Exploring the Role of Subjective and Physical Well-being on Daily Activity Engagement Choices of Individuals: Evidence from the American Time Use Survey. Presented at the *14th International Conference on Travel Behaviour Research*, Windsor, UK, July 19-23, 2015.
5. Konduri, K.C., Ning, Y., Pendyala, R.M., Zhou, X., You, D., Garikapati, V.M. Modeling Behavioral Response to Real Time Traveler Information: An Application of a Continuous Time Integrated Transport Modeling Framework. Presented at the *14th International Conference on Travel Behaviour Research*, Windsor, UK, July 19-23, 2015.

6. Konduri, K.C., Rehan, A., Rahman, A., and Lownes, N. Crowdsourcing Real-Time Traveler Information Services: An Exploratory Analysis of Data Quality. Presented at the *2014 Conference on Innovations in Travel Demand Forecasting*, Baltimore, MD, April 27-30, 2014.
7. Konduri, K.C., Ning, Y., Pendyala, R.M., and Zhou, X. Modeling Behavioral Response to Real Time Traveler Information: An Application of a Continuous-Time Integrated Modeling Framework. Presented at the *2014 Conference on Innovations in Travel Demand Forecasting*, Baltimore, MD, April 27-30, 2014.
8. Konduri, K.C., Ning, Y., Angueira, J., and Pendyala, R.M. Transportation System Modeling in the Information Era: An Application of a Continuous-Time Integrated Transport Modeling Framework for Capturing Activity-Travel Behaviors in Response to Real-Time Traveler Information. Presented at the *Conference on Agent-Based Modeling in Transportation Planning and Operations*, Blacksburg, Virginia, September 30 – October 2, 2013.
9. Konduri, K.C., Ye, X., and Pendyala, R.M. (2012). Challenges and Solutions in the Development of Population Evolution Models for Microsimulation of Land-Use and Activity-Travel Patterns. Presented at the *13th International Conference on Travel Behaviour Research*, Toronto, Canada, July 15-20, 2012.
10. Pendyala, R.M., Konduri, K.C., Chiu, Y., Hickman, M., Noh, H., Waddell, P., Wang, L., You, D., and Gardner, B. (2012). An Integrated Land-Use Transport Model Application: Simulating the Impact of Network Disruptions on Activity-Travel Engagement Patterns. Presented at the *4th Transportation Research Board Conference on Innovations in Travel Modeling*, Tampa, FL, April 30-May 2, 2012.
11. Konduri, K.C., Paleti, R., Pendyala, R.M., and Bhat, C.R. (2011). A Simultaneous Equations Choice Model System of Tour Type, Vehicle Type, Accompaniment, and Tour Length. Presented at the *2nd International Choice Modeling Conference*, Leeds, UK, July 4-6, 2011.
12. Konduri, K.C. (2011). The Development of an Integrated Model of Urban Dynamics: Land Use, Activity-Travel Demand, and Traffic Networks. Presented at the *1st Annual Graduate Student Research Symposium*, March 20, 2011.
13. Sana, B., Konduri, K.C., Pendyala, R.M., and Ye, X. (2009) An Evolutionary Model of Population Synthesis that Controls for Household- and Person-level Attribute Distributions. Presented at the *12th International Conference of the Travel Behaviour Research*, Jaipur, India, December 13-18, 2009.
14. Konduri, K.C., Ye, X., and Pendyala, R.M. (2008). A Time Use Analysis of Work, Play, and Other Activities to Assess the Role of Information of Communication Technologies (ICT) in Promoting Sustainable Mobility Patterns. Presented at the *2008 Graduates in Earth, Life, and Social Sciences (GELSS) Symposium*, Tempe, AZ, February 1, 2008.
15. Ye, X., Konduri, K.C., and Pendyala, R.M. (2007). A Time Use Analysis of Work, Play, and Other Activities to Assess the Role of Information and Communication Technologies (ICT) in Promoting Sustainable Mobility Patterns. Presented at the *International Association of Time Use Researchers Conference*, Washington, DC, October 17-19, 2007.

Invited

1. “Enhancing Behavioral Processes in Travel Forecasting Models” at the Joint CT ITE/CT APA Spring Meeting, Manchester, CT, April 7, 2015.
2. “Discussion Panel 2: Agent Based Modeling Techniques in Travel Demand Modeling” at the Conference on Agent-Based Modeling in Transportation Planning and Operations, Blacksburg, Virginia, September 30 – October 2, 2013.

3. "Recent Advances in Activity-Based Modeling: A Network-Sensitive Transport Modeling Framework for Evaluating Impacts of Network Disruptions on Traveler Choices under Varying Levels of User Information Provision" at the University of Connecticut, Storrs, October 1, 2012.
4. "A Network-Sensitive Transport Modeling Framework for Evaluating Impacts of Network Disruptions on Traveler Choices under Varying Levels of User Information Provision" at the University of Illinois, Chicago, August 17, 2012.
5. "Population Generation for Microsimulation of Land-Use and Activity-Travel Patterns" at Cambridge Systematics, August 10, 2012.
6. "Synthetic Population for Travel Demand Forecasting" at Introduction to UrbanSim workshop conducted at the University of California at Berkeley, May 25-26, 2010.

AWARDS AND ACCOMPLISHMENTS

- ❑ Recipient of the **2015 Transportation Research Board's Committee ANB20 (Safety Data Analysis and Evaluation) Young Researcher Paper Award** along with co-authors Kai Wang, Shamsunnahar Yasmin, Dr. Naveen Eluru, and Dr. John Ivan. The criteria for this award include a requirement that the first author (Kai Wang) be 35 years or younger at the deadline for paper submission for the 2014 Annual Meeting.
- ❑ Recipient of the **2012 Transportation Research Board's Pyke Johnson Award** for the best paper in the field of transportation systems planning and administration along with co-authors Dr. Xin Ye, Dr. Ram Mohan Pendyala, and Bhargava Sana.
- ❑ Recipient of the **University Graduate Fellowship** in Spring 2011 at Arizona State University
- ❑ Awarded a travel grant to attend the International Association of Time Use Researchers Conference, Washington, DC, October 17-19, 2007

PROFESSIONAL AFFILIATIONS

- ❑ Member, Transportation Research Board
 - Committee on Traveler Behavior and Values (ADB 10)
 - Paper Review Coordinator, 2015- Present
 - Member, 2017-present
 - Young Member, 2014-2017
 - Subcommittee Co-Chair, Time Use and Activity Patterns (ADB10 (1)), 2014-Present
- ❑ Member, Institute of Transportation Engineers
 - Faculty Advisor, Student Chapter of the Institute of Transportation Engineers at University of Connecticut, 2013-present
 - Secretary, Student Chapter of the Institute of Transportation Engineers at Arizona State University, 2008-2010
- ❑ Board of Directors, Intelligent Transportation Society of Connecticut
- ❑ Member, World Conference on Transport Research Society
- ❑ Member, International Association for Travel Behaviour Research
- ❑ Member, Association of American Transportation Professional of Indian Origin

PROFESSIONAL SERVICE

University of Connecticut

- Member, School of Engineering: Computing, 2012 - present
- Member, Department of Civil and Environment Engineering: Website and Brochure, 2012 - present
- Member, Search Committee: Sustainable and Robust Transportation Infrastructure Position, 2015-2016
- Member, Search Committee: Hybrid Structures Position, 2013 - 2014

Conference Activities

- Organizing Committee, *Tenth Annual Transportation Student Research Symposium*, Storrs, CT, April 2, 2014.
- Student volunteer involved in organizing the *First International Symposium on Advances in Transport Sustainability*, Tempe, Arizona, November 17-19, 2010
- Student Volunteer involved in planning and organizing the *3rd Conference on Innovations in Travel Modeling*, Tempe, Arizona, May 10-12, 2010
- Student volunteer involved in organizing the *12th International Conference on Travel Behaviour Research*, Jaipur, India, December 13-18, 2009

Referee

□ Journals

- Accident Analysis and Prevention
- International Journal of Sustainable Transportation
- International Journal of Environmental Research and Public Health
- Journal of Planning Education and Research
- Journal of Transport and Land Use
- Journal of Transport Geography
- Journal of Urban Planning and Development
- Transport
- Transport Policy
- Transportation Letters
- Transportation Research Part A: Policy and Practice
- Transportation Research Part B: Methodological
- Transportation Research Part C: Emerging Technologies
- Transportation Research Part D: Transport and Environment
- Transportation Research Record (and Annual Meeting of the Transportation Research Board)
- Transportation: Planning – Policy – Research – Practice
- Transportmetrica A: Transport Science
- Transportation in Developing Economies: A Journal of the Transportation Research Group of India

□ Conferences

- 6th Transportation Research Board Conference on Innovations in Travel Modeling, Denver, CO, May 1-4, 2016.
- 3rd Conference of Transportation Research Group of India, Kolkata, India, December 17-20, 2015.
- 13th International Conference on Travel Behaviour Research, Windsor, UK, July 19-23, 2015.
- 1st International Conference on Transport & Health, London, UK, July 6-8, 2015.
- 11th Transportation Planning and Implementation Methodologies for Developing Countries, Bombay, India, December 10-12, 2014.

- 5th Transportation Research Board Conference on Innovations in Travel Modeling, Baltimore, MD, April 27-30, 2014
 - 4th Transportation Research Board Conference on Innovations in Travel Modeling, Tampa, FL, April 30 – May 2, 2012
 - 13th International Conference on Travel Behaviour Research, Toronto, Canada, July 15-19, 2012
 - 12th World Conference on Transport Research, Lisbon, Portugal, July 11-15, 2010
- Proposal Reviewer
- University of California Transportation Center, 2013
 - National Center for Transportation Systems Productivity and Management, Georgia Institute of Technology, 2013

Moderator

- Session titled “ABM innovations: Part 2 (A Hard Day’s Night)” at the 2016 *Conference on Innovations in Travel Demand Forecasting*, Denver, CO, May 1-4, 2016.
- Session titled “Methodological Advances in Travel Behavior Research, Part 2” at the 95th *Annual Meeting of the Transportation Research Board*, Washington, D.C, January, 2016.
- Session titled “Activity and Travel: New Understandings and Models” at the 94th *Annual Meeting of the Transportation Research Board*, Washington, D.C, January, 2015.
- Session titled “Social Networks and Social Influence” at the 93rd *Annual Meeting of the Transportation Research Board*, Washington, D.C, January, 2014.
- Session titled “Population Synthesis” at the 13th *International Conference on Travel Behaviour Research*, Toronto, Canada, July 15-20, 2012.
- Session titled “Understanding Sustainable Transportation Systems” at the *First International Symposium on Advances in Transport Sustainability*, Tempe, Arizona, May 17-19, 2010

STUDENT ADVISING

Committee Chair	Committee Member
<p>PhD Advising <i>University of Connecticut</i></p> <ul style="list-style-type: none"> ▪ Annesha Enam (In progress) ▪ Alireza Sohrabi (In progress) ▪ Jingyue Zhang (In progress) <p><i>Arizona State University</i></p>	<ul style="list-style-type: none"> ▪ Fatema Parvez (In progress) ▪ Qixing (Jason) Wang (In progress) ▪ Ashrafur Rahman (In progress) ▪ Kai Wang (In progress) ▪ Kelly Bertolaccini (Fall 2015) ▪ Saidul Islam (Fall 2014) ▪ Ellie Volosin (Fall 2014) ▪ Daehyun You (Fall 2014)
<p>MS Advising University of Connecticut</p> <ul style="list-style-type: none"> ▪ Raymond Gerte (In progress) 	<ul style="list-style-type: none"> ▪ Brett Decker (Spring 2016)

- Asif Rehan (Summer 2015)
- Yihong Ning (Fall 2014)
- Jaime (Ricky) Angueira (Summer 2014)

- Brian McClanahan (Fall 2015)
- Jingyue Zhang (Fall 2015)
- Sina Kahrobaei (Fall 2015)
- Neil Olinski (Spring 2015)
- Khademul Haque (Spring 2015)
- Chenhao Wang (Spring 2014)
- Kelly Bertolaccini (Fall 2012)

SKILLS

Programming languages: Python, C/C++, R

Data Analysis Tools: LIMDEP, SPSS, Amos, working knowledge of SAS

Mapping Tools: ArcGIS, PostGIS, QGIS

Modeling Software: GAUSS

Databases: PostgreSQL, MySQL

Operating Systems: Windows - XP, Vista, 7, and 10; Linux - Ubuntu
