

10/10/2019 10:00 AM

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Carnegie Mellon University, Pittsburgh, PA

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PROFESSIONAL APPOINTMENT

Associate Professor

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Postdoctoral Fellow

Department of Civil and Environmental Engineering, Northwestern University

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Visiting Scholar

Oak Ridge National Laboratory

Worked on Project "Data Analysis for Plug-In Electric Vehicle Studies" funded by the ORNL, as a key researcher.

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HONORS & AWARDS

11. Research "SWEET SIXTEEN" 2017\*, American Association of State Highway and Transportation Officials (AASHTO) 2017

\* For 2016 TxDOT-funded project "Proactive Traffic Signal Timing and Coordination for Congestion Mitigation on Arterial Roads", worked as PI.

10. ASCE ExCEED Fellowship, American Society of Civil Engineers (ASCE) 2017

9. University Merit Award, Lamar University 2017

8. Larry Lawson Faculty Fellowship, Lamar University 2017-2019

7. Presidential Faculty Fellowships for Undergraduate Research, Lamar University 2014-2015



3. Assessing Energy Use and Charging Facility Investment for Plug-in Hybrid Electric Vehicles based on Longitudinal Travel Data. **D=**, \$5,000, funded by *the Research Enhancement Grants (REG) of Lamar University*, September 2013 – August 2014.
2. Quantitative Risk Analysis of Vessel Accidents in Southeast Texas Waterways. **D=**, \$5,000, funded by *the Texas A&M Transportation Institute*, March 2013 – August 2013.
1. Projecting Plug-in Vehicle Demand and Impact with Detailed Market Segmentation. **D=**, \$5,000, funded by *Vehicles Technologies Program of the U.S. Department of Energy*, 2011-2012.

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## REFERRED PUBLICATIONS

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**✉** [cb@uakron.edu](mailto:cb@uakron.edu) (\* = corresponding author)

40. Li, Y., Li, Y., **K i ž L**", and Craig, B. "Investigation of contributing factors to traffic crashes severity in Southeast Texas using multiple correspondence analysis", *The Australasian College of Road Safety Journal and Conference*, under the 2<sup>nd</sup>-round review.
39. Haselbach, L., Adesina M., Muppavarapu, N., and **K i ž L**" (2022) "Spatially estimating flooding depths from damage reports", *Frontiers in Water, section Water and Built Environmen*, under review.
38. Qian, Q, Su, L. Zaloom, V., Jao, M., **A**

28. Roy, U. and K i ž L "\*" (2019) "AIS-data based vessel traffic's characteristics and travel behavior analysis: a case study"

9. K i ž'L " and Nie, Y. (2009) "Implementation issues in approximate algorithms for reliable a priori shortest path problem", *Transportation Research Record*, No. 2091, pp. 51-60.
8. K i ž'L ", Akinci, B. and Davidson, C. (2007). "Modeling graywater in residences: use of shower effluent in the toilet reservoir", *Journal of Green Buildings*, Vol. 2, pp. 111-120, 2007
7. Zhang, Z., K i ž'L " and Yang, X. (2006) "BAPAS – a life cycle building environmental performance assessment model",

*Annual Meeting*, Washington DC, January 8-12, 2017.

5. Hu, Y., Chen, Z. and K i žL ""(2017) "Station allocation model for electric bicycle-sharing



11. Finding reliable shortest paths in dynamic stochastic networks. *The 92nd Annual Meeting of Transportation Research Board (TRB)*, Washington DC, January 2013.
10. Solving multi-class percentile user equilibrium traffic assignment problem: a computational study.



3. Nie, Y., K i ž L", Li, Q., Dillenburg, J. and Nelson, P. (2011) Developing Travel Reliability Inventory for the Chicago Region. Prepared for the Illinois Department of Transportation.
2. Nie, Y., K i ž L", Zissman, J., Lee, C., Haynes, M., Nelson, P. and Dillenburg, J. (2010) Providing Reliable Route Guidance: Phase II, Technical Report # 2010-001. Prepared for the Center for the Commercialization of the Innovative Transportation Technology, Northwestern University.
1. Nie, Y., K i ž L", Nelson, P. and Dillenburg, J. (2009) Providing Reliable Route Guidance using Chicago Data, Technical Report # 2009-001. Prepared for the Center for the Commercialization of the Innovative Transportation Technology, Northwestern University.

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## HIGHER EDUCATION EXPERIENCE

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### I bXYf[ fUXi UHY 7ci fgY:

1. CVEN 2272 Introduction to CAD and Surveying, Spring 2020 - present
2. CVEN 2270 Mechanics of Solid, core course, Spring 2018 - present
3. CVEN 3290 *Engineering Probability and Statistics*, core course, Fall 2012 - 2016, 2018
4. CVEN 4365 *Introduction to Transportation Engineering*, core course, Fall 2012 - present

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Current:

1. CVEN 5320 *Engineering Project Management*
2. CVEN 5364 *Transportation Engineering and Traffic Analysis*, graduate elective
3. CVEN 5370 *GIS Applications in Engineering*
4. CVEN 5366 *Travel Demand Analysis*

Previous:

5. CVEN 5347 *Statistical Principal Engineering Systems* (2012 - 2016)
6. CVEN 5375 *Risk Analysis and Decision Making in Engineering* (2013 - 2017)
7. CVEN 5365 *Urban Transportation System Analysis* (2013)

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## STUDENT ADVISING

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### 8cVfcU`Ghi XYbhj fgYfj Y`Ug`8]ggYfhUj]cb`5Xj ]gYfL.

3. Mubarak Adesina, 2020 - present.
2. Shahin Sajjadi, 2019 - present.
1. Uttara Roy, 2017 - 2020,

**8]ggYfhUj]cb:** *Study of the Travel Time of Vessels and Their Delays Based on AIS Data: a case study in Houston Ship Channel*

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8. Bipil Mainali, graduated in May 2018.

*HA Yglg. Implementation of Proactive Signal Control in Arterial Corridor with Multi-Intersections Equipped with Loop Detectors*

7. Benjamin Kolkmeie, graduated in May 2017.

*HA Yglg. Study of Wake Wash in Sabine-Neches Waterways*

6. Afifa Rahman, graduated in May 2017.

*HA Yglg.*