

Konstantina Gkritza

PhD 2006, Purdue University

MS 2003, Virginia Polytechnic and State University

BS 2001, National Technical University of Athens, Greece

Academic Experience:

- Associate Professor, Lyles School of Civil Engineering, Department of Agricultural and Biological Engineering, Purdue University. August 2013 – present.
- Postdoctoral Researcher, Purdue University, January 2007 – July 2007.
- Assistant Professor, Department of Civil, Construction, and Environmental Engineering, Iowa State University, August 2007 – August 2013.

Other:

- Director, Sustainable Transportation Systems Program, Institute for Transportation, Iowa State University, August 2011 – August 2013.
- Associate Director, Mid-American Transportation Center, Region 7 University Transportation Center, US Department of Transportation, January 2012 – August 2013.

Certifications: Licensed Civil Engineer, Greece (since 2002); Graduate Certificate in Public Transportation Systems, Virginia Polytechnic Institute and State University, 2003.

Professional Organizations: American Society of Civil Engineers; American Society for Engineering Education; Institute of Transportation Engineers; International Road Federation; North American Colleges & Teachers of Agriculture; Society of Women Engineers; Transportation Research Forum; Transportation Research Board; Tau Beta Pi; Women's Transportation Seminar

Honors and Awards:

- Best Reviewer Award, International Journal of Transportation Science and Technology, 2017
- Greek Diaspora Fellow, Institute of International Education, Stavros Niarchos Foundation and Fulbright Foundation in Greece, 2017
- College of Engineering Faculty of Excellence Award in Leadership Award, Purdue University., 2017
- Jane F. Garvey/UMass ITE Transportation Leadership Award, 2016
- Outstanding Engineering Graduate Student Mentor, Lyles School of Civil Engineering, 2016
- National Academy of Engineering Frontiers of Engineering Education Symposium Attendee, 2014
- Early Career Engineering Faculty Research Award, College of Engineering, Iowa State University, 2013

Service Activities (past five years):

Internal:

- Lyles School of Civil Engineering, Graduate Committee member, Transportation Area Representative, since August 2013.
- Lyles School of Civil Engineering, Strategic Plan Subcommittee Member, Theme 3: Increase accessibility to high quality, flexible and affordable higher education, since May 2014.

- Lyles School of Civil Engineering, Faculty Governance Committee (FGC), at-large representative, 2014-2016.
- Lyles School of Civil Engineering, Advisory Council, Faculty Representative, 2017-2020.
- Lyles School of Civil Engineering, FGC, Transportation Area Representative, 2017-2019.

External:

- National Science Foundation proposal reviewer for the Civil Infrastructure Systems program in Transportation, December 4–5, 2013.
- Guest Editor, Special Issue on Transportation and Economic Development of the Journal Research in Transportation Economics, Elsevier (2015-2016).
- Editorial Board, The International Journal of Transportation Science and Technology (IJTST), Elsevier (effective January 2016).
- Indiana Department of Transportation, Indiana Statewide Rail Plan, Key Stakeholder, 2016-2017.
- National Science Foundation, Graduate Research Fellowship Program Panelist, Sociology & Geographic Sciences, January 2017.
- Indiana's Federal Highway Administration Every Day Counts (EDC) Subject Matter Expert (SME) Team member, 2017.
- National Institute of Health, Federal Highway Administration, Invited Expert on Workshop on Identifying Infrastructure-Based Motorcycle Crash Countermeasures, February 13, 2018.

Select Publications (past five years):

1. Lavrenz*, S., and K. Gkritza, "Environmental and Energy Impacts of Automated Electric Highway Systems," *Journal of Intelligent Transportation Systems*, 17 (2), 221–232 (2013).
2. Mudgal*, A., S. Hallmark, A. Carriquiry, K. Gkritza, Driving Behavior at a Roundabout: A Hierarchical Bayesian Regression Analysis, *Transportation Research Part D: Transport and Environment*, 26: 20–26 (2014).
3. Troutner*, T.J., K. Gkritza, "Impacts of Extended Interstate Closures to Regional Freight Logistics: Case Study of 2011 Interstate 29 Closure," *Transportation Research Record, Journal of the Transportation Research Board*, Volume 2410: 113–122 (2014).
4. Shaheed*, M., K. Gkritza. A Latent Class Analysis of Single-Vehicle Motorcycle Crash Severity Outcomes. *Analytic Methods in Accident Research 2*: 30–38 (2014).
5. Cerwick*, D., K. Gkritza, M. Shahee, Z. Hans, "A Comparison of the Latent Class and Mixed Logit Methods by Crash Data," *Analytic Methods in Accident Research 3–4*: 11–27 (2014).
6. Krishnan*, V., E. Kastrouni, V. D. Pyrialakou, K. Gkritza, J.D. McCalley, "An Optimization Model of U.S. Energy and Transportation Systems: Assessing the Impact of High-Speed Rail on Passenger Transportation Investment," *Transportation Research Part C*, 54: 131–156 (2015).
7. Kastrouni*, E., K. Gkritza, S. Hallmark, W.R. Stephenson, "Fuel Tax Versus. Vehicle-Miles Traveled Fee: Identifying Vulnerable Households via a Three-Stage Least Squares Analysis," *Transportation Research Record, Journal of the Transportation Research Board* Volume 2531: 161–169 (2015).
8. Pyrialakou*, V.D., K. Gkritza, Fricker, J. "Accessibility, Mobility, and Realized Travel Behavior: Assessing Rural Disadvantage from a Policy Perspective," *Journal of Transport Geography*, 51:251–169 (2016).
9. Chacón-Hurtado *, D., V.D. Pyrialakou*, K. Gkritza, "Investigating the Spatial Distribution of Manufacturing Employment: An Indiana Case Study", *Transportation Research Record, Journal of the Transportation Research Board* 2606: 122–129 (2017).
10. Lavrenz*, S., E. Vlahogianni, K. Gkritza, Y. Ke "Time Series Modeling in Traffic Safety Research," *Accident Analysis and Prevention*, 117: 368–380.