

MARGARET L. MCNAMARA, PH.D.

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EDUCATION

Purdue University	Ph.D. in Civil Engineering (Transportation)	May 2017
	Advisor: Darcy Bullock	
	Dissertation: “Probe Data Dashboards for Interstate Performance Measurement and Winter Operations Management”	
University of Virginia	M.S. in Civil Engineering (Transportation)	May 2014
University of Virginia	B.S. in Civil Engineering, Minor in Computer Science	May 2012

PROFESSIONAL EXPERIENCE

Marquette University	Milwaukee, WI
Assistant Professor	August 2019 - Present
Dept. of Civil, Construction, & Environmental Engineering	
University of Alabama	Tuscaloosa, AL
Postdoctoral Researcher in Transportation Engineering	July 2017 – July 2019
Purdue University	West Lafayette, IN
Graduate Research Assistant in Transportation Engineering	June 2014 – May 2017
University of Virginia	Charlottesville, VA
Graduate Research Assistant in Transportation Engineering	June 2012 – May 2014

PUBLICATIONS

- 2017 Mott, John H., **M. L. McNamara**, and D.M. Bullock, “Accuracy Assessment of Aircraft Transponder-Based Devices for Measuring Airport Operations,” Transportation Research Record: Journal of the Transportation Research Board, No. 2626, Transportation Research Board, Washington, D.C., 2017, pp. 9-17.
- 2016 **McNamara, Margaret L.**, J.H. Mott, and D.M. Bullock, “Leveraging Aircraft Avionics for Fleet and Airport Management,” Transportation Research Record: Journal of the Transportation Research Board, No. 2569, Transportation Research Board, Washington, D.C., 2016, pp. 32-41.
- Mekker, M. M., Remias, S., **M., McNamara**, M. L., Bunnell, W. A., Krohn, D. W., Sturdevant, J. R., Cox, E. D., & Bullock, D. M. (2016). Identifying effects and applications of fixed and variable speed limits (Joint Transportation Research Program Publication No. FHWA/IN/JTRP-2016/31). West Lafayette, IN: Purdue University.
- Day, C. M., **McNamara, M. L.**, Li, H., Sakhare, R. S., Desai, J., Cox, E. D., Horton, D. K., & Bullock, D. M. (2016). “2015 Indiana mobility report and performance measure dashboards.” Indiana Mobility Reports, West Lafayette, IN: Purdue University.

- 2015 **McNamara, Margaret L.**, H. Li, S. Remias, L. Richardson, E. Cox, D. Horton, and D. M. Bullock. "Using Real-Time Probe Vehicle Data to Manage Unplanned Detour Routes." *ITE Journal*, Vol. 85, no. 12, December 2015, pp. 32-37.
- Remias, Stephen M., M.M. Mekker, **M.L. McNamara**, J.R. Sturdevant, E.D. Cox and D.M. Bullock, "Assessment of Speed Limit Locations Using Crowdsourced Probe Vehicle Data," Transportation Research Record: Journal of the Transportation Research Board, No. 2484, pp. 10-22, 2015.
- 2014 Day, Christopher, S.M. Remias, H. Li, M.M. Mekker, **M.L. McNamara**, E.D. Cox, D.K. Horton and D.M. Bullock, "2013–2014 Indiana Mobility Report: Full Version," 2014. Indiana Mobility Reports, Purdue University, West Lafayette, IN., 2014.

REFEREED CONFERENCE PAPERS

- 2017 **McNamara, Margaret L.**, R. Sakhare, H. Li, M. Baldwin, and D.M. Bullock, "Integrating Connected Vehicle Traffic Speeds into Winter Operations Performance Measures," Transportation Research Board Annual Meeting, January 8-12, 2017. Paper No. 17-00161.
- McNamara, Margaret L.**, Z. Knoll, C. Voss, and D.M. Bullock, "Commercial Driver Behavioral Analysis Using Real-Time Mirror Check Monitoring Tools," Transportation Research Board Annual Meeting, January 8-12, 2017. Paper No. 17-00162.
- Mekker, Michelle M., H. Li, **M.L. McNamara**, J.D. McGregor, M. Kachler, and D.M. Bullock, "Implementation of a Connected Data Smart Work Zone Management System to Provide Queue Alerts to Stakeholders," Transportation Research Board Annual Meeting, January 8-12, 2017. Paper No. 17-00104.
- Ortega-Alvarez, J. D., R. A. Streveler, A. W. Fentiman, H. W. Aggarwal, W. Biswas, B. S. Coventry, A. Hassan, **M.L. McNamara**, and S. N. Paul. "From Graduate Students to Faculty: Portraits of Balance in the Professional Development Plans of Engineering Graduate Students." 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. June 25-28, 2017.
- 2016 Mott, John H., **M.L. McNamara**, and D.M. Bullock, "Estimation of Aircraft Operations at Airports Using Nontraditional Statistical Methods." 2016. IEEE Aerospace Conference. Big Sky, Montana, Mar 5-12, 2016.
- McNamara, Margaret L.**, H. Li, S.M. Remias, D.K. Horton, E. D. Cox, and D.M. Bullock, "Real-Time Probe Data Dashboards for Interstate Performance Monitoring During Winter Weather and Incidents," Transportation Research Board Annual Meeting, January 10-14, 2016. Paper No. 16-0622.
- Mekker, Michelle M., S.M. Remias, **M.L. McNamara**, and D.M. Bullock, "Characterizing Interstate Crash Rates Based on Traffic Congestion Using Probe Vehicle Data," Transportation Research Board Annual Meeting, January 10-14, 2016. Paper No. 16-1194.

- 2015 Day, Christopher M., S.M. Remias, H. Li, M.M. Mekker, **M.L. McNamara**, and E.D. Cox, "Performance Ranking of Arterial Corridors Using Travel Time and Travel Time Reliability Metrics." Transportation Research Board Annual Meeting, January 11-15, 2015. Paper No. 15-0063.

CONFERENCE PRESENTATIONS

- 2018 "Route-Based Travel Time Analysis of Hospital Access in Alabama." Southern District ITE Annual Meeting, Mobile, AL. April 8-11, 2018.
- 2017 "Effect of Crashes on Intersection Delay: High-Resolution Signal Data Visualization." ITS Midwest Annual Meeting, Columbus, OH, September 28-29, 2017.
- "Winter Operations." 103rd Purdue Road School, West Lafayette, IN, March 6-8, 2017.
- "Emerging Tools for After-Action Review." 103rd Purdue Road School, West Lafayette, IN, March 6-8, 2017.
- "Integrating Connected Vehicle Traffic Speeds into Winter Operations Performance Measures." TRB Annual Meeting 2017. Washington, D.C., January 8-12, 2017.
- 2016 Panelist, Student Leadership Development Panel. Institute of Transportation Engineers Annual Meeting, Anaheim, CA, August 14-17, 2016.
- "Analysis of a University Bike-Sharing Program and Lessons Learned." 102nd Purdue Road School. West Lafayette, IN, March 8-10, 2016.
- "Traffic Ticker: A Statewide Operations Dashboard." 102nd Purdue Road School. West Lafayette, IN, March 8-10, 2016.
- "Leveraging Aircraft Avionics for Fleet and Airport Management." TRB Annual Meeting 2016. Washington, DC. January 10-14, 2016.
- 2015 "Development of a Real-Time Web-Based Dashboard for Interstate Performance Monitoring." ITS America, 25th Annual Meeting and Exposition. Pittsburgh, PA, June 1-3 2015.
- "Implementation of Real-Time Traffic Operations Dashboards Using Commercial Probe Data." GIS Day 2015. Indianapolis, IN. September 22, 2015.

POSTER PRESENTATIONS

- 2019 "Accessibility Analysis of Labor & Delivery Services in Alabama." Institute of Transportation Engineers Annual Meeting, Austin, TX. July 21-24, 2019.
- 2018 "Route-Based Travel Time Analysis of Hospital Access in Alabama." 19th Annual Rural Health Conference, Tuscaloosa, AL. April 25-26, 2018. Judge's Choice Winner – 3rd place, professional division.
- 2017 "Commercial Driver Behavioral Analysis Using Real-Time Mirror Check Monitoring Tools." 103rd Purdue Road School, West Lafayette, IN, March 6-8, 2017.
- "Commercial Driver Behavioral Analysis Using Real-Time Mirror Check Monitoring Tools." TRB Annual Meeting 2017. Washington, D.C., January 8-12, 2017.
- 2016 "Analysis of a University Bike-Sharing Program." Institute of Transportation Engineers Annual Meeting, Anaheim, CA, August 14-17, 2016.

“Real-Time Probe Data Dashboards for Interstate Performance Monitoring.” Institute of Transportation Engineers Midwest/Great Lakes District Meeting. Chicago, IL, June 27-28, 2016.

“Characterizing Interstate Crash Rates Based on Traffic Congestion Using Probe Vehicle Data.” ITE Midwest/Great Lakes District Meeting. Chicago, IL, June 27-28, 2016. Poster. Best Student Poster Award Winner, with Michelle Mekker

“Leveraging Aircraft Avionics for Fleet and Airport Management.” 102nd Purdue Road School. West Lafayette, IN, March 8-10, 2016.

“Real-Time Probe Data Dashboard for Monitoring Detour Route During I-65 N Road Closure.” 102nd Purdue Road School. West Lafayette, IN, March 8-10, 2016.

INVITED TALKS

- 2018 “Route-Based Travel Time Analysis of Hospital Access in Alabama.” College of Community Health Sciences Winternitz Lecture Series, University of Alabama. Tuscaloosa, AL. September 4, 2018.
- 2016 “Real-Time Mobility Dashboards: Statewide Data at a Glance.” Department of Civil, Construction, and Environmental Engineering, University of Alabama. Tuscaloosa, AL. May 25, 2016.

PATENT (PENDING)

Mott, John H., D.M. Bullock, & M.L. McNamara. “Estimating Aircraft Operations at Airports Using Transponder Data.” Application No. 15/248581.

GRANTS, AWARDS AND HONORS

- 2019 Grant awarded for “Measuring Access to Services by Multiple Transportation Modes: A Case Study of Milwaukee” by Opus College of Engineering at Marquette University, PI, \$10,000
- 2018 Grant awarded for “Transportation Needs Assessment for Pickens County” by the University of Alabama-Pickens County Partnership, Co-PI, \$22,400
Grant awarded for “Using AlgoTraffic Data to Improve Traffic Incident Management” by ALDOT, Co-PI, \$182,000
Judge’s Choice – 3rd Place Poster in Professional Division, Alabama Rural Health Conference, University of Alabama
- 2016 Edward J. Cox Memorial Scholarship, Indiana ITE Section
Best Student Poster Award, ITE Midwest-Great Lakes Meeting
International Collegiate Traffic Bowl Champion, ITE Annual Meeting
- 2014 Purdue Doctoral Fellowship

UNIVERSITY SERVICE

Departmental Involvement:

Graduate Students Committee, Member	2019-Present
Institute of Transportation Engineers (ITE) Student Chapter Advisor	2019-Present

PROFESSIONAL SERVICE

Member	Institute of Transportation Engineers (ITE) Tau Beta Pi (Engineering Honor Society) American Society of Civil Engineers (ASCE)		
Involvement	Co-chair	ITE International Women in ITE Subcommittee	2018-Present
	Member	ITE International Membership Committee	2017-18
		Women in ITE Subcommittee	2017-Present
		Student Membership Subcommittee	2017
	President	Purdue ITE Student Chapter	2016-17
Secretary	Purdue ITE Student Chapter	2015-16	
Reviewer	Transportation Research Board (TRB) Annual Meeting Transportation Research Record (TRB)		

ONLINE SCHOLAR PROFILES

ORCID:	orcid.org/0000-0003-3008-229X
Scopus Author ID:	https://www.scopus.com/authid/detail.uri?authorId=57189899449
Google Scholar:	https://scholar.google.com/citations?user=6RFNOA0AAAAJ