

## CURRICULUM VITAE

### **BHUIYAN M. ALAM**

Professor of Urban & Regional Planning  
Department of Geography & Planning  
The University of Toledo, Toledo, OH 43606, USA  
Phone: 419-320-7913; Fax: 419-530-7919  
E-mail: [bhuiyan.alam@utoledo.edu](mailto:bhuiyan.alam@utoledo.edu)

### **EDUCATION**

- 2005 Ph.D. in Urban & Regional Planning  
*Specialization:* Transportation Accessibility, Demand Modeling, and Policy Analysis  
Department of Urban & Regional Planning, Florida State University (FSU), USA  
*Dissertation:* Influence of Transit Accessibility to Jobs on the Employability of the Welfare Recipients: The Case of Broward County, Florida.
- 2005 M.S. in Civil & Environmental Engineering  
*Specialization:* Transportation Engineering (Traffic/Road Safety)  
Department of Civil & Environmental Engineering, Florida State University (FSU), USA  
*Thesis:* Influence of Age as a Contributing Factor for Fatal Traffic Crashes in Florida.
- 1995 M.S. in Regional & Rural Development Planning  
*Specialization:* Water Resources & Environment (Environmental Impact Assessment)  
Human Settlements Development Program, Asian Institute of Technology (AIT), Thailand  
*Thesis:* Socio-Economic and Environmental Effects of Flood Mitigation Measures in Dhaka, Bangladesh.
- 1992 B.S. in Civil Engineering  
Department of Civil Engineering, Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh.

### **TEACHING AND PROFESSIONAL EXPERIENCES / POSITIONS HELD**

- Fall 2019 - Professor, Department of Geography & Planning (GEPL), The University of Toledo (UT), Ohio, USA.
- Fall 2012 - Summer 2019 Associate Professor, Department of Geography & Planning, UT
- January - June 2017 Fulbright U.S. Scholar, Department of City & Regional Planning, King Fahd University of Petroleum & Minerals (KFUPM), KSA
- Fall 2012 - Date Faculty Member, the Asian Studies Institute, UT.
- Fall 2009 - Date Core Faculty, Spatially Integrated Social Science Ph.D. program, UT.
- Fall 2006 - Summer 2012 Assistant Professor, Department of Geography & Planning, UT.
- May 2005 - August 2006 Civil Engineer / Urban Planner, Paradigm Engineers & Consultants, PLCC, Tallahassee, Florida, USA.

## TEACHING AND PROFESSIONAL EXPERIENCES / POSITIONS HELD (CONT'D)

- Fall 2003 – Spring 2005 Graduate Research Assistant, Department of Civil Engineering, FSU.
- Summer 2002 – Spring 2005 Instructor, Department of Urban & Regional Planning (DURP), FSU.
- Fall 2000 – Spring 2003 Graduate Research and Teaching Assistant, DURP, FSU.
- Spring 1998 and Spring 1999 Part-Time Faculty, Department of Civil Engineering, Ahsanullah University of Science & Technology (AUST), Bangladesh
- Fall 1998 - Spring 1999 Part-Time Faculty, Department of Civil Engineering, Int'l University of Business, Agriculture & Technology (IUBAT), Bangladesh
- June 1997 – August 1999 Lecturer, DURP, BUET.
- February 1996 – March 1997 Civil Engineer / Urban Planner, South East Asia Technology Co. (SEATEC), Ltd., Bangkok, Thailand.
- Sept. 1995 – January 1996 Research Associate, Regional Development Planning Field, Human Settlements Development Program, AIT, Thailand.
- October 1992 – October 1993 Civil Engineer, Aqua Consultant & Associates Ltd., Bangladesh.

## BROAD AREAS OF CURRENT ACADEMIC INTERESTS

- ◆ Urban Transportation Planning, Modeling and Policy Analysis
  - \* Built Environment (e.g., Land Use, Urban Design), Transport, and Health
  - \* Spatial Analysis of Transportation Accessibility, Mobility, and Equity
  - \* Spatial and Non-Spatial Analysis of Traffic/Road Crashes
  - \* Impacts of Autonomous Vehicles on Public Transit and Paratransit Systems
  - \* Freight Transportation Analysis and Modeling
  - \* Travel Demand Modeling
- ◆ Environmental Planning (e.g., Storm Water Management Modeling, Impacts of Floods on Transportation Networks)
- ◆ Planning Techniques: GIS, Spatial/Classical Statistics, and Forecasting/Modeling
- ◆ Urban & Environmental Planning and Sustainability Issues in Developing Countries
- ◆ Adaptation and Resiliency to Climate Change Impacts in Mega Cities

## RESEARCH GRANTS (UNDER PREPARATION)

- \_\_\_\_ [PI]. *Spatial Analysis and Users' Level of Service Analysis of Toledo Area Regional Paratransit Systems (TARPS)*. Preparing to submit to Geography and Spatial Sciences program of NSF.
- \_\_\_\_ [PI]. *Accessibility Analysis and Travel Behavior of the Hispanic and African American Populations Living in Transit Deserts in Two Shrinking Cities: The Cases of Toledo, Ohio and Detroit, Michigan*. Preparing to submit to Geography and Spatial Sciences program of NSF.
- \_\_\_\_ [PI]. *Freight Sharing Economy: The Cases of FedEx, USPS and UPS Services in SE Michigan and NW Ohio Regions*. Preparing to submit to Geography and Spatial Sciences program of NSF.

## RESEARCH GRANTS (UNDER REVIEW)

\_\_\_\_\_ [International Consultant. Submitted – Under Review. \$168,650]. *An Integrated Transportation Planning and Geospatial Technological Approach to Reduce Accidents and Traffic Congestions during Flash Flooding of Dammam Metropolitan Area*. King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia. PI: Muhammad T. Rahman at KFUPM.

## RESEARCH GRANTS (FUNDED)

2012 – 2014. [PI. \$60,364]. *Analysis of Transit Travel Demand Change in U.S. Metropolitan Statistical Areas Between 2000 and 2010 Using Two-Stage Least Squares Regression*. Mineta Transportation Institute, San Jose State University.

2011 – 2012. [PI. US\$24,000]. *TARTA's Service Quality with Respect to Transportation Accessibility to Public High Schools in Toledo*. Toledo Area Regional Transit Authority (TARTA).

2011 – 2012. [PI. US\$24,000]. *Mapping and Analyzing the Spatial Distribution of Public High Schools and TARTA Bus Stops using GIS and Spatial Statistics*. TARTA.

2010 – 2011. [Co-PI. US\$10,500]. *Urban Expansion, Land Price and the Intra-Country Industrial Relocation in China*. Lincoln Institute of Land Policy. PI: Gene Chang.

2009 – 2012. [Co-I. US\$785,304]. *Monitoring Agricultural Sewage Sludge, 2009*. The U.S. Department of Agriculture (USDA). PI: Kevin Czajkowski.

2009 [PI. US\$11,500]. *Developing the Introductory Course 'World Cities' of Multicultural and Interdisciplinary Nature*. UT.

2008 – 2011. [Co-I. US\$836,503]. *Monitoring Agricultural Sewage Sludge Application, OH*. The U.S. Department of Agriculture. PI: Kevin Czajkowski.

2008 – 2009. [PI. US\$39,619]. *Travel Behavior of U.S. Domestic Airline Passengers and Its Impacts on Infrastructure Utilization*. The U.S. DOT through UTC-ITI, UT.

2007 – 2008. [Co-I. US\$845,017]. *Monitoring Agricultural Sewage Sludge*. USDA. PI: K. Czajkowski.

2007 – 2008. [PI. US\$11,500]. *Transit Ridership Change in US MSAs: A Comparison between 1985–1994 and 1995–2004 Using 2-Stage Least Square Regression*. Summer Research Fellowship, UT.

2006 [PI. US\$400]. *Software Purchase for 'Seminar in Spatial Analysis' Course*. UT.

1998 – 1999. [Co-PI. Taka 20,000]. *A Study of the Disaster Response for Shelters during the 1998 Flood in Dhaka City*. Bangladesh University of Engineering & Technology. PI: K. Maniruzzaman.

1997 – 1998. [Co-PI. Taka 50,000]. *The NGO Experience in Urban Sector Programming in Bangladesh*. Co-operative for American Relief Everywhere (CARE), Bangladesh. PI: Sarwar Jahan.

## PUBLICATIONS

### Journal Articles

- \_\_\_\_\_ Apardian, Rebekka and **Bhuiyan Alam**. Fatal Pedestrian Crash Location Analysis in the state of Ohio using ESDA Techniques. *Transportation Research Record*. Under Review.
- \_\_\_\_\_ Akter, Taslima and **Bhuiyan Alam**. Mode Choice Behavior of a Midwest College Community: The Case of the University of Toledo, Ohio. *TRR*. Under Review.
- 2018 **Alam, Bhuiyan**, Hilary Nixon, and Qiong Zhang. Factors Affecting Transit Ridership by Bus: An Empirical Analysis at U.S. MSA Level. *Transportation Research Record* 2672(8): 817–826.
- 2017 Apardian, Rebekka and **Bhuiyan Alam**. A Study of Effectiveness of Midblock Pedestrian Crossings: Analyzing a Selection of High-Visibility Warning Signs. *Interdisciplinary Journal of Signage and Wayfinding* 1(2): 26-59.
- 2016 Chester, Winston, **Bhuiyan Alam**, and Dwight Haase. “One Slowly Loses Everything”: Development and Debt in San Antonio Aguas Calientes. *World Development Perspectives* 4: 24–29.
- 2016 Gao, Lijun, **Bhuiyan Alam**, Brian Randolph, Douglas Nims, and Richard Martinko. Information Point and Saturation Flow at Signalized Intersections. *Journal of Traffic and Transportation Engineering (English Edition)* 3(4): 336–344.
- 2015 Apardian, Rebekka and **Bhuiyan Alam**. Methods of Crossing at Roundabouts for Visually Impaired Pedestrians: Review of Literature. *International Journal of Transportation Science and Technology* 4(3): 313-336.
- 2013 Gene Chang, Changliu Jiang, Kathryn Chang, and **Bhuiyan Alam**. Land Prices and Intracountry Industrial Relocation in China: Theory and the Yangtze Delta Area Case. *The Chinese Economy* 46(2): 54–73.
- 2012 **Alam, Bhuiyan**, Jeanette Eckert and Peter Lindquist. A Reflection on the Ph.D. Program in Spatially Integrated Social Science at the University of Toledo. *International Journal of Applied Geospatial Research* 3(2): 72-77.
- 2011 **Alam, Bhuiyan**. Are Anglo-American-Style Normative Planning Theories Applicable in South Asian Cities? An Exploratory Study. *The Arab World Geographer* 14(1): 72 – 93.
- 2010 **Alam, Bhuiyan**, Greg Thompson and Jeff Brown. Estimating Transit Accessibility Using an Alternative Method: Evidence from Broward County, Florida. *Transportation Research Record* 2144: 62 – 71.
- 2009 **Alam, Bhuiyan**. Transit Accessibility to Jobs and Employment Prospects of Welfare Recipients without Cars: A Study of Broward County, Florida, using GIS and Econometric Model. *Transportation Research Record* 2110: 78 – 86.

## Journal Articles (Cont'd)

- 2009 **Alam, Bhuiyan** and Lisa Spainhour. Contributing Factors for Young At-Fault Drivers in Fatal Traffic Crashes in Florida. *Journal of Transportation Safety & Security* 1(2): 152-168.
- 2008 **Alam, Bhuiyan** and Lisa Spainhour. Contribution of Behavioral Aspects of Older Drivers to Fatal Crashes in Florida. *Transportation Research Record* 2078: 49 - 56.
- 2004 Stiftel, Bruce, Deden Rukmana and **Bhuiyan Alam**. A Reply to Graduate Planning School Study Responses. *Journal of Planning Education and Research* 24(2): 128 - 130.
- 2004 Stiftel, Bruce, Deden Rukmana and **Bhuiyan Alam**. Faculty Quality at US Planning Schools: An NRC Style Study. *Journal of Planning Education and Research* 24(1): 6 - 22.
- 2002 Rajbhandari, Purna, **Bhuiyan Alam** and Mohammad Akther. Application of GIS for Landslide Hazard Zonation and Mapping Disaster-Prone Area: A Study of Kulekhani Watershed, Nepal. *Plan Plus* 1(1): 117 - 123.
- 1996 **Alam, Bhuiyan**, L. Damole and E. Wickramanayeke. Effects of Flood Mitigation Measures: Lessons from Dhaka Flood Protection Project, Bangladesh. *Asian Profile* 24(6): 511 - 524.

## Current Unfunded Article/Research (In-progress)

- \_\_\_\_\_ Traffic Crash Severity in Dhaka, Bangladesh: A Multinomial Logit Approach. Preparing to submit to *Accident Analysis & Prevention*.
- \_\_\_\_\_ Network Restructuring Benefits of TARTA Downtown Transit Hub, Toledo, Ohio. Preparing to submit to the *Journal of Public Transportation*.
- \_\_\_\_\_ Freight Flow Analysis in the Midwest Region of the United States. Preparing to submit to *Transportation Research E: Logistics and Transportation Review*.
- \_\_\_\_\_ Impacts of Urban Form on Travel Demand by Bus Transit in the U.S.: A Regional Analysis at MSA Level. Preparing to submit to the *Journal of Urban Design*.
- \_\_\_\_\_ Riders' Attitudes toward Toledo Area Regional Paratransit System: A Survey-Based Exploratory Study. Preparing to submit to the *Journal of Public Transportation*.

## Conference Proceedings

- 2018 **Alam, Bhuiyan**, Hilary Nixon, and Qiong Zhang. What Determines Transit Ridership by Bus?: An Empirical Analysis at U.S. MSA Level. Proceedings of the 97<sup>th</sup> TRB Annual Meeting, Washington, D.C.
- 2015 Apardian, Rebekka and **Bhuiyan Alam**. Methods of Crossing at Roundabouts for Visually Impaired Pedestrians: Review of Literature. Proceedings of the 7<sup>th</sup> International Symposium on Travel Demand Management, Tucson, AZ.

## Conference Proceedings (Cont'd)

- 2015 Gao, Lijun and **Bhuiyan Alam**. Optimal Discharge Speed and Queue Discharge Headway at Signalized Intersections. Proceedings of the 94<sup>th</sup> *Transportation Research Board (TRB) Annual Meeting*, Washington, D.C.
- 2014 **Alam, Bhuiyan** and Lisa Spainhour. Logit and Case-Based Analysis of Drivers' Age as a Contributing Factor for Fatal Traffic Crashes on Highways and State Roads in Florida. Proceedings of the 93<sup>rd</sup> *TRB Annual Meeting*, Washington, D.C.
- 2010 **Alam, Bhuiyan** and Greg Thompson. Estimating Transit Accessibility Using an Alternative Method: Evidence from Broward County, Florida. Proceedings of the 89<sup>th</sup> *TRB Annual Meeting*, Washington, D.C. (Revised version was published in *TRR* 2144: 62 – 71).
- 2009 **Alam, Bhuiyan**. Transit Accessibility to Jobs and Employment Prospects of Autoless Welfare Recipients: A GIS Assisted Case Study of Broward County, FL. Proceedings of the 88<sup>th</sup> *TRB Annual Meeting*, Washington, D.C. (Revised version published in *TRR* 2110: 78–86).
- 2009 **Alam, Bhuiyan** and Lisa Spainhour. Behavioral Aspects of Young At-Fault Drivers in Fatal Traffic Crashes in Florida. Proceedings of 88<sup>th</sup> *TRB Annual Meeting*, Washington, D.C.
- 2008 **Alam, Bhuiyan** and Lisa Spainhour. Contribution of Behavioral Aspects of Older Drivers to Fatal Traffic Crashes in Florida. Proceedings of the 87<sup>th</sup> *TRB Annual Meeting*, Washington, D.C. (Revised version was published in *TRR* 2078: 49 – 56).

## Book Chapters

- 2019 Aspacher, Monica and **Bhuiyan Alam**. Stormwater Best Management Practices: Green Infrastructure in Rural Communities. In: *Smart Village Technology: Concepts and Developments*. Springer: Germany. In-press.
- 2011 **Alam, Bhuiyan M.** Case-Based Analysis of Age and Sex Distribution of Drivers Causing Fatal Crashes: Evidence from Florida, USA. In: *ICTIS 2011: Multimodal Approach to Sustained Transportation System Development: Information, Technology, Implementation*. Xinping Yan, Ping Yi, Chaozhong Wu and Ming Zhong (eds.), pp. 1113 – 1121, ASCE: VA.
- 2010 Kevin Czajkowski, April Ames, **Bhuiyan Alam**, and others. Application of GIS in Evaluating the Potential Impacts of Land Application of Biosolids on Human Health. In: *Geotechnologies and the Environmental Management*, Nancy Hoalst-Pullen and Mark Patterson (eds.), pp. 165 – 186, Springer Science+Business Media: NY.
- 2002 Maniruzzaman, Khandakar and **Bhuiyan Alam**. A Study of the Disaster Response for Shelters during the 1998 Flood in Dhaka City. In: *Engineering Concerns of Flood, 1998 Perspective*, M. Ashraf Ali, Salek M. Seraj, and Sohrabuddin Ahmed (eds.), pp. 187 – 200, Bangladesh University of Engineering & Technology: Dhaka, Bangladesh.

## Books

- \_\_\_\_\_ **Alam, Bhuiyan** and Muhammad Rahman (Eds., In-progress). *Adaptation and Resiliency to Climate Change Impacts in Mega Cities*. (Lexington Books, Rowman & Littlefield Publishing).
- \_\_\_\_\_ Uddin, Kamal and **Bhuiyan Alam**. Public Participation Process in Urban Planning: Evaluation Approach of Fairness and Effectiveness Criteria of Planning Advisory Committee. Routledge: Taylor & Francis (Planning & Urban Design series). Under Review.
- 2012 **Alam, Bhuiyan** (Ed.). *Application of Geographic Information System* (ISBN: 978-953-51-0824-5). Intech Open Access Publisher, Rijeka, Croatia  
(<https://www.intechopen.com/books/application-of-geographic-information-systems>).

## Book Reviews

- 2010 **Alam, Bhuiyan** and AbdulKaleem Mohammed. Transportation Statistics. Sloboda, Brian W. (ed.). *Journal of Transportation Research Forum* 49(3): 159 – 161.
- 2009 **Alam, Bhuiyan**. Road Congestion Pricing in Europe: Implications for the United States. Harry W. Richardson and Chang-Hee Christine Bae (eds.). *Journal of the American Planning Association* 75(4): 495 – 496.
- 2005 **Alam, Bhuiyan**. Cities, Transport and Communications: The Integration of Southeast Asia since 1850. Howard Dick and Peter J. Rimmer. *Cities* 22(1): 77 – 78.
- 2005 **Alam, Bhuiyan**. Urbanization in India: Sociological Contributions. Ranvinder S. Sandhu (ed.). *Cities* 22(1): 78 – 79.
- 2004 **Alam, Bhuiyan**. Metropolitan Railways: Rapid Transit in America. William D. Middleton. *Journal of the American Planning Association* 70(4): 488 – 489.
- 2004 **Alam, Bhuiyan**. Fundamentals of Intelligent Transportation Systems Planning. Mashrur Chowdhury and Adel Sadek. *Journal of Planning Education and Research* 24(2): 225 – 226.

## Reports, Monographs, Entries, and Features

- 2016 Akter, Taslima and **Bhuiyan Alam**. Bangladesh Railway: A Short Overview. In: *Minicars, Maglevs, and Mopeds: Modern Modes of Transportation around the World*, ABC-CLIO Publisher.
- 2016 Akter, Taslima and **Bhuiyan Alam**. Kolkata Metro Railway: A Short Note. In: *Minicars, Maglevs, and Mopeds: Modern Modes of Transportation around the World*, ABC-CLIO Publisher.
- 2015 Investigating the Determining Factors for Transit Travel Demand by Bus Mode in US Metropolitan Statistical Areas. *Mineta Transportation Institute*, San Jose State University.
- 2015 Investigating the Determining Factors for Transit Travel Demand by Bus Mode in US Metropolitan Statistical Areas (Brief). *Mineta Transportation Institute*, San Jose State University.
- 2009 Travel Behavior of U.S. Domestic Airline Passengers and Its Impacts on Infrastructure Utilization. *University Transportation Center*, UT.
- 2007 Long-Range Land Use Planning Implications of Some Recent Technologies. Fall 2007 Issue, *Institute of Transportation Engineers (ITE) Newsletter*.
- 2005 Evaluation of Traffic Crash Fatality Causes and Effects: A Study of Fatal Traffic Crashes in Florida from 1998–2000 Focusing on Heavy Truck Crashes. *Florida Department of Transportation*. PI: Lisa Spainhour. (My contribution is mentioned in the report).

## CONFERENCE PRESENTATIONS

- 2019 (with Rebekka Apardian). Exploring Spatial Patterns of Pedestrian Crash Fatalities in Ohio. *The 58<sup>th</sup> Meetings of the Southern Regional Science Association*, Arlington, VA.
- 2019 (with Rebekka Apardian). Pedestrian Fatal Crash Location Analysis in Ohio using ESDA Techniques. *American Association of Geographers (AAG) Annual Meeting*, Washington, D.C.
- 2019 (with Solaiman Khan). Urbanization and Density Pattern in Bangladesh: A Study Using Spatial Statistics and Tools. *AAG Annual Meeting*, Washington, D.C.
- 2018 (with Panini Chowdhury). Landscapes of Fear: A Comprehensive Traffic Accident Severity Analysis of Dhaka Metropolitan Area, Bangladesh. *AAG Annual Meeting*, New Orleans, LA.
- 2018 (with Hilary Nixon and Qiong Zhang). What Determines Transit Ridership by Bus?: An Empirical Analysis at U.S. MSA Level. *The 97<sup>th</sup> Transportation Research Board (TRB) Annual Meeting*, Washington, D.C.
- 2017 (with Panini Chowdhury and Bayes Ahmed). Analyzing Spatial Distribution of the Accident Locations - A Case Study of Mirpur Corridor, Dhaka, Bangladesh. *East Lakes Division of the American Association of Geographers Annual Meeting*, Ypsilanti, MI.
- 2016 (with Hilary Nixon and Qiong Zhang). Impacts of Urban Form on Travel Demand by Bus Transit in the United States: A National Study at Metropolitan Statistical Area Level. *Urban Affairs Association Conference*, San Diego, California.
- 2015 (with Qiong Zhang and Hilary Nixon). What Determines Travel Demand by Bus in the United States? A National Study at Metropolitan Statistical Areas Level. *ACSP Annual Conference*, Houston, TX.
- 2015 Spatial Analysis of Poverty Cluster and Green Space Locations in Urban Communities: The Case of Toledo, Ohio. *Applied Geography Conference*, San Antonio, TX.
- 2015 Analyzing the Spatial Distribution and Neighborhood Demographics of Community Gardens in Toledo, Ohio. *Applied Geography Conference*, San Antonio, TX.
- 2015 Evolution of World Cities and Adaptation to Climate Change: Historical and Current Perspectives. *International Geographical Union Regional Conference*, Moscow, Russia.
- 2015 (with Lijun Gao). Information Point and Saturation Flow at Signalized Intersections. *The 6<sup>th</sup> Annual Midwest Graduate Research Symposium*, the University of Toledo, OH.
- 2015 Sustainable Community Development through Urban Planning Workshop Class. *AAG Annual Meeting*, Chicago, IL.
- 2015 (with Rebekka Apardian). Methods of Crossing at Roundabouts for Visually Impaired Pedestrians: Review of Literature. *The 7<sup>th</sup> International Symposium on Travel Demand Management*, Tucson, AZ.



## CONFERENCE PRESENTATIONS (CONT'D)

- 2015 (with Lijun Gao). Optimal Discharge Speed and Queue Discharge Headway at Signalized Intersections. *The 94<sup>th</sup> TRB Annual Meeting*, Washington, D.C.
- 2014 Developing Revitalization Plan of UpTown District of a Legacy City through Urban Planning Studio Class: The Case of Toledo, Ohio. *Historic Preservation in America's Legacy Cities*, Cleveland, Ohio.
- 2014 Measuring Walk Accessibility of High-School Students to Public Transit: Case of Toledo Area Regional Transit Authority. *AAG Annual Meeting*, Tampa, FL.
- 2014 (with Lisa Spainhour). Logit and Case-Based Analysis of Drivers' Age as a Contributing Factor for Fatal Traffic Crashes on Highways and State Roads in Florida. *The 93<sup>rd</sup> TRB Annual Meeting*, Washington, D.C.
- 2013 (with Ryne Sundvold). Land Use Classification and Suitability Analysis for the UpTown District in Toledo, Ohio. *Joint Annual Meeting of East Lakes Division of AAG and Canadian Association of Geographers – Ontario Division*, Toledo, OH.
- 2013 Investigation of TARTA's Service Quality and Transportation Accessibility to Public High Schools in Toledo, Ohio. *Urban Affairs Association Annual Meeting*, San Francisco, CA.
- 2012 (with Karen Gallagher and Lauren Maziarz). Engaging Students in the Assessment of Walkability & Bikeability at a Mid-Western Institute. *Sustainable U Conference*, Toledo, OH.
- 2012 (with Jeanette Eckert). Greening the Rustbelt: Exploring the Spatial Distribution and Neighborhood Demographics of Community Gardens in Toledo, Ohio. *AAG Annual Meeting*, New York, NY.
- 2011 Air Travel Demand and Airport Level of Service: Evidence from Some Regional Airports in the Mid-West. *AAG Annual Meeting*, Seattle, WA.
- 2010 Recent U.S. Research on Younger Drivers' Driving Behavior Causing Fatal Crashes. *ACSP Annual Conference*, Minneapolis, MN.
- 2010 (with Shakil Akther). GIS as a Method of Transit Planning: Lessons from Recent Literature. *ACSP Annual Conference*, Minneapolis, MN.
- 2010 Implications of U.S. – Mexico River Water Sharing on Ganges Water Dispute Resolution: A Bangladeshi Perspective. *AAG Annual Meeting*, Washington, D.C.
- 2010 Invited Presentation. Resiliency and Adaptation Preparedness of Dhaka City to Climate Change: A Critical Analysis. *National Planning Conference*, APA, New Orleans, LA.
- 2010 (with Gregory Thompson). Estimating Transit Accessibility Using an Alternative Method: Evidence from Broward County, Florida. *The 89<sup>th</sup> TRB Annual Meeting*, Washington, D.C.

## CONFERENCE PRESENTATIONS (CONT'D)

- 2010 (with Jeanette Eckert). Spatial Distribution and Neighborhood Demographics of Community Garden Locations in Toledo, OH: Discounting the "Elitism" Stigma. *East Lakes Division of the AAG Annual Conference, Grand Rapids, Michigan.*
- 2009 City Planning and Urbanization History in Emerging Megacities in South Asia: The Case of Dhaka City, Bangladesh. *The 13th National Conference on Planning History, Oakland, CA.*
- 2009 Transit (Corridor!) Dispute between Bangladesh and India: Constraints and Opportunities. *ACSP Annual Conference, Crystal City, VA.*
- 2009 Age Distribution of At-Fault Drivers in Fatal Traffic Crashes in Florida. *The 35th International Forum on Traffic Records & Highway Safety Information Systems, Phoenix, AZ.*
- 2009 People's Perception about Contributing Factors for Arsenicosis in Rural Bangladesh. *AAG Annual Meeting, Las Vegas, NV.*
- 2009 Transit Accessibility to Jobs and Employment Prospects of Autoless Welfare Recipients: GIS Assisted Case Study of Broward County, FL. *88th TRB Annual Meeting.*
- 2009 (with Lisa Spainhour). Behavioral Aspects of Younger At-Fault Drivers in Fatal Traffic Crashes in Florida. *The 88th TRB Annual Meeting, Washington, D.C.*
- 2008 (with Lisa Spainhour). Contribution of Behavioral Aspects of Older Drivers to Fatal Crashes in Florida. *The 87th TRB Annual Meeting, Washington, D.C.*
- 2005 Influence of Transit Accessibility to Jobs on Employability of the Welfare Recipients: The Case of Broward County, Florida. *ACSP Annual Conference, Kansas City, Missouri.*
- 2004 Assessing the Influence of Transit Accessibility to Jobs on Employability of the TANF Recipients: The Case of Broward County, Florida. *ACSP Annual Conference, Portland, OR.*
- 2004 Evaluation of Age as a Contributing Factor in Fatal Crashes in the State of Florida. *The 30th International Traffic Records Forum, Nashville, TN.*

## DISSERTATIONS/THESES/CO-OP RESEARCH SUPERVISION (COMPLETED)

- 2019 Monica Aspacher. *Urban Stormwater Management in NW Ohio: Problems with Current Strategies and Promise of Green Infrastructure as an Alternative.* Geography & Planning. (Master's Project).
- 2018 Panini Amin Chowdhury. *Modeling Pedestrian Fatal Crashes in Dhaka, Bangladesh, using Multinomial Logistic Regression.* Geography & Planning. (Master's Thesis).
- 2017 Md Shakhawat Hossen. *Freight Flow, Pattern and Variable Magnitudes: Ins and Outs of Midwest.* Geography & Planning. (Master's Thesis).
- 2016 Steven Meyers. *Analysis of Flint, MI, Water Crisis.* Civil Engineering. (Co-Op. Research).
- 2016 Taslima Akter. *Examining the Active Travel Behavior in a Mid-western College Campus: The Case of the University of Toledo Main Campus.* Geography & Planning. (Master's Thesis).
- 2015 Lijun Gao. *Impact Analysis of Information Points on Optimal Discharge Speed: Evidence from Toledo, Ohio.* Civil & Environmental Engineering. (Ph.D. Dissertation)
- 2014 Winston Chester. *Impacts of Microfinance on Villagers' Overall Wellbeing: Evidence from A Guatemalan Village.* Geography & Planning. (Master's Thesis).

## DISSERTATIONS/THESES/CO-OP RESEARCH SUPERVISION (COMPLETED - Cont'd)

- 2013 Vanishravan Katta. *Development of Crash Severity Model for Predicting Risk Factors in Work Zones in Ohio*. Civil & Environmental Engineering. (Master's Thesis).
- 2013 Qiong Zhang. *Analysis of Transit Travel Demand Change for Bus-Only Mode in U.S. Metropolitan Statistical Areas between 2000 and 2010 Using Two-Stage Least Squares Regression*. Geography & Planning. (Master's Thesis).
- 2012 Hong Zhuo. *GIS-based Spatial Accessibility Analysis to High Schools by Transit in Toledo Area in 2010*. Geography & Planning. (Master's Thesis).
- 2011 Abdul Kaleem Mohammed. *Application of GIS and GPS for Utilities and Infrastructure Mapping and Management*. Civil & Environmental Engineering. (Master's Thesis).

## DISSERTATIONS/THESES/PROJECTS SUPERVISION (IN-PROGRESS)

- Christopher Black. *Return on Investment of Introducing Positive Train Control System in the United States*. Geography & Planning. (Ph.D. Dissertation).
- Rajesh Nagisetty. *Relationships between Personal and Travel Behavior with Obesity: A County Level Spatial Analysis of the United States of America*. Geography & Planning. (Ph.D. Dissertation).
- Daniel Serfas. *What Makes Urban Areas Healthy? Impacts of Urban Design, Environmental, and Climatological Factors on Health of US MSAs*. Geography & Planning. (Ph.D. Dissertation).
- SM Ahsanullah. *Land Use Land Cover (LULC) Change in Two Border Cities: Cases of Detroit, MI, USA and Windsor, ON, Canada*. Geography & Planning. (Master's Thesis).
- Abby Curtis. *Spatial Analysis of Emergency Siren Locations in Lucas County, Ohio*. Geography & Planning. (Master's Thesis).
- Solaiman Khan. *Inequity Analysis in Economic Development in Bangladesh*. Geography & Planning. (Master's Thesis).
- Modabbir Rizwan. *Spatial and Time Series Analysis of Bicycle Fatal Crashes in the State of Ohio*. Civil & Environmental Engineering. (Master's Thesis).
- Atika Jabin. *Developing Safety Performance Functions for the Interstate Highways in the State of Ohio*. Civil & Environmental Engineering. (Master's Thesis).
- Justin Koralewski. *Exploring Transit Desert Locations in TARTA (Toledo Area Regional Transit Authority) Service Areas, Ohio*. Geography & Planning. (Master's Thesis).
- Adam Jurski. *Accessibility Analysis of Fire Stations in Lucas County, Ohio*. Geography & Planning. (Master's Thesis).
- Lance Dasher. *Creating an Optimal Planning Process for the Transportation Improvement Program at an MPO*. Geography & Planning. (Master's Thesis).
- Ryne Sundvold. *Using GIS to Measure Accessibility and Analyze Suitability of Current Bicycle Network in Toledo, Ohio*. Geography & Planning. (Master's Thesis).

## GRADUATE THESIS/DISSERTATION COMMITTEE MEMBERSHIP

- ◆ Serving on two Master's thesis and two Ph.D. dissertation committees, Dept. of GEPL, UT.
- ◆ Serving on one Ph.D. dissertation committee, Department of Information Operations and Technology Management, College of Business and Innovation (COBI), UT.
- ◆ Served on a Ph.D. dissertation committee, Department of Information Operations and Technology Management, College of Business and Innovation (COBI), UT.
- ◆ Served on thirteen completed Master's thesis committees, Department of GEPL, UT.
- ◆ Served on four completed Master's thesis committees, Dept. of Civil Engineering, UT.

## COURSES TAUGHT

### Department of Geography & Planning, University of Toledo

Built Environment, Transport & Health (G/D - L) Seminar in Spatial Analysis (G - L)  
Transport Geography/Planning (U/G - L+DL) Travel Demand Modeling (D - L)  
Land Development and Planning (U/G - L+DL) Spatial Statistics (D - L)  
Quant. Methods (Statistics) in Geog. Research (U/G - L) GIS Applications (U/G/D - L)  
Quantitative Methods and Mapping (U - L) Applied Geographic Workshop (G - L)  
Seminar on Research Methods (G - L) World Regional Geography (U - L)  
Environmental Geography (U - L+DL) World Cities (U - L+DL)  
Urban & Regional Planning Techniques (G - L) Introduction to Asian Studies (U - L)  
Seminar on Environmental Planning (G - L) Research Design (G - L)

Community Planning Workshop/Studio (U/G/D - L). The projects are:

- 2019 *Level of Service (LOS) Analysis Toledo Area Regional Paratransit Service (TARPS): Evidence from Users' Satisfaction Survey.*
- 2018 *Supply and Demand Analysis of Toledo Area Regional Paratransit Service (TARPS).*
- 2016 *Role of Urban University on City & Regional Revitalization and Revival: The Case of the University of Toledo, Ohio.*
- 2015 *Network Restructuring of Downtown Hub of Toledo Area Regional Transit Authority.*
- 2013 *An Investigation into the Predicted Impacts of Pickett and Robinson Community Hub Schools on Their Students, Parents and Surrounding Communities in Toledo, Ohio.*
- 2012 *Landuse Analysis, and Walkability & Bikability Plan for UpTown District in Toledo, Ohio.*
- 2011 *Assessing the Brownfield Redevelopment in Toledo, Ohio.*
- 2010 *Viva South Streetscape Project, Toledo, Ohio.*

### Department of Urban & Regional Planning, Florida State University

Transportation Planning & Policy Analysis (U/G) World Cities (U)  
Collective Decision Making (Engineering Economics - U)

### Department of Urban & Regional Planning, Florida State University

Quant. Methods (Forecasting) of Planning Analysis (G) Transport & Land Use Planning (G)

### Department of Civil Engineering, AUST, Dhaka, Bangladesh

Engineering Survey (U) Transportation Engineering (U)

### Department of Civil Engineering, IUBAT, Dhaka, Bangladesh

Civil Engineering Materials (U) Engineering Survey (U)

### Department of Urban & Regional Planning, BUET, Dhaka, Bangladesh

Quantitative Techniques (Statistics) for Planners - I (U) Land Economics (U)  
Surveying & Cartography for Planners - Studio (U) Urban & Regional Economics (U)  
Programming Techniques and Database Management Systems (U)

**Note:** U = Undergraduate; G = Graduate; D = Doctoral; L = Lecture; DL = Distance Learning

## NEW COURSES DEVELOPED

Built Environment, Transport & Health (G/D)	Travel Demand Modeling (D)
Community Planning Workshop/Studio (U/G/D)	Spatial Statistics (D)
Land Development & Planning (U/G)	Seminar on Spatial Analysis (G)
Urban and Regional Planning Techniques (G)	World Cities (U)
Seminar on Environmental Planning (G)	

## SERVICES TO THE DEPARTMENT, COLLEGE AND UNIVERSITY

2019	Invited Member, Department Personnel Committee, Department of Economics, UT.
2019 – 2020	Member, Faculty Search Committee, Department of Disability Studies, UT.
2019 – Date	Member, Department Personnel Committee, Department of GEPL, UT.
2018 – Date	Member, Area of Research Excellence in Smart Transportation, UT.
2018 – Date	Member, College Faculty Council, College of Arts & Letters, UT.
2018 – Date	Internship Coordinator, Department of GEPL, UT.
2018 – 2019	Co-Chair, College Curriculum Committee, College of Arts & Letters, UT.
2017	Member, Selection Committee, Fulbright Student Program, UT.
2016	Member, Graduate Council, UT.
2015 – 2016	Member, LLSS College Reorganization Committee, UT.
2015 – 2018	Chair, Department Personnel Committee, Department of GEPL, UT.
2015	Member, Faculty Search Committee, Department of GEPL, UT.
2014 – 2015	Member, Faculty Search Committee, Department of Criminal Justice, UT.
2012 – 2015	Member, Department Personnel Committee, Department of GEPL, UT.
2012 – Date	Member, Graduate (Master’s) Admissions Committee, Department of GEPL, UT.
2012 – Date	Member, Doctoral Admissions Committee, Spatially Integrated Social Sciences, UT.
2012 – 2014	Member, Presidents Commission on the River, UT.
2012 – 2014	Founding Member, Complete Streets Committee, UT.
2011	Member, Curriculum Committee, College of LLSS (CLLSS), UT.
2010 – 2014	Member, College Faculty Council, CLLSS, UT.
2010 – Date	Member, Alumni Relations Committee, Department of GEPL, UT.
2007 – 2009	Member, Strategic Plan. Subcom. on Research, Col. of Arts & Sciences (CA&S), UT.
2007 – 2009	Member, Instructional Equipment & Technology Oversight Committee, CA&S, UT.

## OUTREACH ACTIVITIES / SERVICES TO THE PROFESSION

### External Reviewer, Editorial Activity, Chairing Professional Conferences/Events

2019	Member, Peer Review Committee, Public Affairs Committee (encompassing urban and regional planning, and public policy and administration), <i>Fulbright U.S. Scholar Program</i> .
2018	Member, Regional Peer Review Committee, MENA Region, <i>Fulbright U.S. Scholar Program</i> .
2017 – 2019	Co-Chair, Transportation and Infrastructure Planning track. <i>Association of Collegiate Schools of Planning (ACSP)</i> conferences.
2016	Faculty Mentor, <i>Preparing Future Faculty Seminar</i> (Mentee: Sara Meerow, School of Natural Resources & Environment, The University of Michigan, Ann Arbor).

## External Reviewer, Editorial Activity, Chairing Professional Conferences/Events (Cont'd)

- 2015 - 2016 Co-Chair, Transportation & Infrastructure Planning track, *World Planning Schools Congress (WPSC)*, Rio de Janeiro, Brazil.
- 2015 - 2016 Member, Scientific Committee, *WPSC*, Rio de Janeiro, Brazil.
- 2009 - 2017 Member, Editorial Review Board. *International Journal of Applied Geospatial Research*.
- 2009 - 2011 Chair, Analytical Methods and Computer Application track. *ACSP* conferences.

## Reviewer of Journal Articles, Book Proposals, and Book Chapter Proposal

- |  |                                  |
|--|----------------------------------|
| Journal of Planning Education and Research           | Journal of Public Transportation |
| Journal of Transportation and Land Use               | Transportation Research Record   |
| Journal of Transportation Engineering                | Transportation Research Part F   |
| International Journal of Applied Geospatial Research | Journal of Applied Geography     |
| The Arab World Geographer                            | Geographical Review              |
| Water Policy   | Urban Studies                    |
| Accident Analysis & Prevention                       | Journal of Transport Geography   |
| Journal of Transport Policy                          | Transactions in GIS              |

International Journal of Environmental Research and Public Health

Book Proposal: *Cities of the World: Regional Patterns and Urban Environments* (7<sup>th</sup> Edition), Jessica Graybill, Maureen Hays-Mitchell, and Donald Zeigler (Eds.), Publisher: Rowman & Littlefield, Review Period: Fall 2017 - Summer 2018.

Book Proposal: *Spatial Analysis Theory and Practice: Describe - Explore - Explain through GIS for Enhanced Decision Making and Planning*, by George Grekousis. Publisher: Springer. Review Period: Summer 2018.

Book Proposal: *An Introduction to Sustainable Transportation: Policy, Planning and Implementation* (2<sup>nd</sup> Edition), by Preston L. Schiller, Eric C. Bruun, and Jeffrey R. Kenworthy. Publisher: Earthscan from Routledge, Review Period: Fall 2014 - Summer 2015.

Book Chapter Proposal: *Selecting the Right Statistical Test* (Chapter 16). In: *Using and Interpreting Statistics: A Practical Text for the Behavioral, Social and Health Sciences*, (2<sup>nd</sup> Edition), by Eric W. Corty. Publisher: Worth Publisher, Review Period: Fall 2012 - Spring 2013.

## Moderator, Panel Discussant, and Discussant at Professional Meetings/Conferences

- 2018 Public Transportation and Autonomous Vehicles. *Technology Takes The Wheel - Bi-Monthly Seminars on Autonomous Vehicles*, College of Engineering, UT. (Invited Panel Discussant).
- 2014 Urban Resource Use and Decision Making session. *AAG Annual Meeting*, Tampa, FL.
- 2013 Geospatial and Quantitative Methods session. *Joint Annual Meeting of East Lakes Division of AAG and Canadian Association of Geographers - Ontario Division*, Toledo, OH.
- 2011 Air Traffic and Air Networks session. *AAG Annual Meeting*, Seattle, WA.
- 2010 Transportation, Land Use and Spatial Analysis session of the Analytical Methods and Computer Applications track. *The 51<sup>st</sup> ACSP Annual Conference*, Minneapolis, MN.
- 2009 Spatial Analysis and Modeling session of the Analytical Methods and Computer Applications track. *The 50<sup>th</sup> Anniversary ACSP Annual Conference*, Crystal City, VA.
- 2007 Agent Based Modeling session of the Analytical Methods and Computer Applications track. *The 48<sup>th</sup> ACSP Annual Conference*, Milwaukee, WI.
- 2006 *The East Lakes Division of AAG Conference*, Toledo, Ohio.

## **Reviewer of Conference Abstracts/Papers and Research Grants**

Manuscripts. *TRB Annual Meetings*. I review 4-6 articles per year for TRB Annual Meeting.  
Abstracts. *ACSP Annual Conferences*. As one of the co-chairs of transportation and infrastructure track of ACSP, I have been reviewing around 90+ abstracts each year for 2017-2019.  
Research Grants. *Mineta Transportation Institute*, San Jose State University, CA.  
Manuscripts. *International Conference on Road Safety & Simulation*.  
Abstracts. *International Conference on Traffic Records & Highway Safety*.

## **OUTREACH ACTIVITIES/SERVICES TO THE COMMUNITY**

2019 - Date Member, Autonomous Vehicle Steering Committee, Toledo Metropolitan Area Council of Governments (TMACOG).  
2018 - Date Member, Education Caucus, TMACOG.  
2018 - Date Member, Transportation Advisory Committee, Toledo-Lucas County Health Department.  
2018 - Date Member, Transportation Planning Committee, TMACOG.  
2015 - Date Member, Urban Waters Partners, Toledo, Ohio.  
2011 - 2013 Member, Executive Board, Toledo Design Center, Toledo, Ohio.  
2011 - 2012 Member, North-West Ohio Passenger Rail Association.  
2010 - Date Involved with the local community through Community Planning Workshop class.  
2007 Member, Stormwater Advisory Committee, City of Toledo, Ohio.

## **PROFESSIONAL MEMBERSHIPS**

2012 - Date Friend, TRB Committee on Bicycle Transportation (ANF20)  
2012 - Date Friend, TRB Committee on Pedestrian Transportation (ANF10)  
2009 - Date Friend, TRB Committee on Travel Demand Forecasting (ADB40)  
2008 - Date Member, American Association of Geographers (AAG)  
2008 - Date Research Associate, Mineta Transportation Institute (MTI)  
2007 - 2012 Member, American Society of Civil Engineers (ASCE)  
2007 - 2012 Member, Institute of Transportation Engineers (ITE)  
2006 - Date Member, Association of Collegiate Schools of Planning (ACSP)  
2011 - 2013 Member, World Society on Transport and Land Use Research  
2011 - 2012 Member, Transportation Statistics Interest Group, American Statistical Association  
2009 - 2015 Friend, TRB Committee on Geographic Information Science (ABJ60)

## MEDIA COVERAGE

- 2018 TARTA Bringing Autonomous Vehicle Program to Toledo Next Year.  
<http://www.wtol.com/story/38477512/tarta-bringing-autonomous-vehicle-program-to-toledo-next-year>
- 2018 Lessons on Ridership, from the National Literature.  
<http://transitcenter.org/2018/01/29/lessons-on-ridership-from-the-national-literature/>
- 2015 TARTA Inks Deal for Garage Solar Array. *The Blade*.  
<http://www.toledoblade.com/local/2015/05/09/TARTA-inks-deal-for-garage-solar-array.html>
- 2013 *Professor Edits First Book, Plans to Write Another*. *UT News*, Vol. 13, Issue 22, The University of Toledo. [http://utnews.utoledo.edu/index.php/02\\_15\\_2013/professor-edits-first-book-plans-to-write-another](http://utnews.utoledo.edu/index.php/02_15_2013/professor-edits-first-book-plans-to-write-another)
- 2012 Students Suggest Renovations to Toledo's UpTown District. *UT News*, Vol. 12, Issue 36, The University of Toledo. [http://utnews.utoledo.edu/index.php/05\\_30\\_2012/students-suggest-renovations-to-toledos-uptown-district](http://utnews.utoledo.edu/index.php/05_30_2012/students-suggest-renovations-to-toledos-uptown-district)

## AWARDS, FELLOWSHIPS, TRAVEL GRANTS

- 2019 *Visiting Faculty Researcher Award*, UT (to invite Dr. Mohammad Shakil Akther to UT and start a collaborative research project on climate change and travel behavior).
- 2017 *Fulbright U.S. Scholar* to King Fahd University of Petroleum & Minerals, Saudi Arabia.
- 2016 *Innovations in Teaching Award* for Redesigning the Transportation Geography Course Development, UT.
- 2015 *Edith Rathbun Outreach and Engagement Excellence Award* (nominated), UT.
- 2014 *Diversity Champion*, based on the University of Toledo Campus Climate Survey.
- 2009 *Summer Faculty Teaching Fellowship*, Center for Teaching and Learning, UT.
- 2008 *Kohler Junior Faculty International Travel Grant*, UT.
- 2007 *University Research Award Fellowship*, UT.
- 2004 *Journal of Planning Education and Research (JPER) Writing Workshop Award for New Scholars*, UC Berkeley.
- 2003 *Book Scholarship*, Institute of Transportation Engineers, Big Bend Florida Chapter.
- 2003 *Doctoral Dissertation Fellowship*, DeVoe Moore Center for Land Policy, FSU.
- 1999 – 2001 *Transit Fellowship Award* from Florida DOT to pursue doctoral study at FSU.
- 1994 – 1995 *Government of Japan Scholarship* for pursuing graduate study at AIT.