

Md Mintu Miah, MS
 University of Texas at Arlington
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 Transportation Research Laboratory, B24
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ACADEMIC APPOINTMENTS

University of Texas at Arlington, USA Doctoral Research Assistant, Department of Civil Engineering	June 2019-Present
University of Texas at Arlington, USA STEM Graduate Teaching Assistant, Department of Civil Engineering	Jan 2019-August 2019
University of Hawaii at Manoa, USA Graduate Research Assistant	Aug 2017-Dec 2018
Rajshahi University of Engineering and Technology, Bangladesh Assistant Professor	Apr 2017-July 2017
Rajshahi University of Engineering and Technology, Bangladesh Lecturer	Feb 2014-Mar 2017
Stamford University, Bangladesh Lecturer	Sep 2013-Jan 2014
World University, Bangladesh Lecturer	May 2013-Aug 2013

EDUCATION

Ph.D. in Civil Engineering (Transportation) University of Texas at Arlington, Texas, USA Dissertation: Data Fusion for Non-Motorized Volume Estimation: A Machine Learning Approach Advisor: Stephen P. Mattingly, Co-Advisor: Kyung Kate Hyun	In progress
M.S. in Civil and Environmental Engineering (Transportation) University of Hawaii at Manoa, Hawaii, USA Dissertation: Effects of Reading Text While Driving Analysis of 200 Honolulu Taxi Drivers on a VS500m Simulator Advisor: Panos D. Prevedouros	Dec2018
B.S. in Civil Engineering	Oct 2012

Rajshahi University of Engineering and Technology, Rajshahi, Bangladesh

Dissertation: Numerical Analysis of Coupled Shear Wall for Drift Control

Advisor: Tohur Ahmed

RESEARCH EXPERIENCE

Graduate Student Researcher

June 2019-Present

University of Texas at Arlington, Texas, USA

- ❖ Exploring Data Fusion Techniques to Derive Bicycle Volumes on a Network, PI: Hyun Kate, Co-PI: Stephen Mattingly, Sponsor: USDOT/ National Institute for Transportation and Communities
- ❖ Analyze the Use of Green Pavement Markings - Intersection Safety for Non-Motorized Users, PI: Stephen Mattingly, Co-PI: Hyun Kate, Sponsor:TXDOT
- ❖ Characterizing Handitran and Via Users: A Comparative Analysis of the Riders and Their Travel Patterns, PI: Hyun Kate, Co-PI: Stephen Mattingly, Sponsor: City of Arlington
- ❖ Exploring the Use of Crowdsourced Data Sources for Pedestrian Count Estimations, PI: Hyun Kate, Co-PI: Stephen Mattingly, Sponsor: USDOT/ National Institute for Transportation and Communities
- ❖ Air Quality Monitoring Strategies and Modeling of Chronic Health Risks Related to Traffic-Related Air Pollution, PI: Stephen Mattingly, Co-PI: Hyun Kate, Sponsor: orth Central Texas Council of Governments

Graduate Student Researcher

Aug 2017-Dec 2018

University of Hawaii at Manoa, Hawaii, USA

- ❖ Assessment of Transportation Safety Equity for Hawaiians, part-Hawaiians and Pacific Islanders in RITI Communities, PI: Panos D. Prevedouros, Co-PI: Guohui Zhang, Sponsor: U.S. Department of Transportation

Assistant Professor and Lecturer

Feb 2014-July 2017

Rajshahi University of Engineering and Technology, Bangladesh

- ❖ Scope of utilizing recycled materials in construction and renovation of pavements, PI: Md Mintu Miah, Sponsor: Rajshahi University of Engineering and Technology

PUBLICATIONS

- 7 Journal published and 1 journal paper currently under review
- 1 book chapter, 6 conference proceeding and 6 peer-reviewed conference presentation and 1 invited talk

Journal Papers

Under Review

- **Miah, M.**, Hyun K., Mattingly, S., Khan, H., (2022), Estimation of Daily Bicycle Traffic Using Machine and Deep Learning Techniques, *Journal of Transportation*, Springer nature (Revised)
- **Miah, M.**, Hyun K., Mattingly, S., Khan, H., (2022), A Review of Bike Volume Estimation Studies, *Transport Reviews* (Submitted)

Published/In Print

- **Miah, M.**, Hyun, K., Mattingly, S., Joseph, B., Nathan, M., & Sirisha, K. (2021). Challenges and Opportunities of Emerging Data Sources to Estimate Network-wide Bike Counts. *Journal of Transportation Engineering, Part A: Systems*, 148(3), 1–8. <https://doi.org/10.1061/JTEPBS.0000634>
- **Miah, M.**, Naz, F., Hyun, K., Mattingly, S., Cronley, C., Fields, N (2020) Barriers and Opportunities for Paratransit Users to Adopt On-Demand Micro Transit, *Journal of Research in Transportation Economics*, Elsevier, Vol 84, p. 101001
- Dipu Sutradhar , **Mintu Miah** , Golam Jilany Chowdhury , Mohd. Abdus Sobhan , Effect of Using Waste Material as Filler in Bituminous Mix Design, *American Journal of Civil Engineering*. Vol. 3, No. 3, 2015, pp. 88-94. doi: 10.11648/j.ajce.20150303.16
- Mamun, M.M.H., **Miah, M.M.** and Islam, M.I., 2015. Present condition of road traffic accident: A Case study of Rajshahi City, Bangladesh. *International Journal of Computer Applications*, vol. 111, issue 7, pp. 36-41
- Tanzim, S.M.Z. and **Miah, M.M.**, 2016. Study of Parking Accumulation in Major on Street Parking Spots in Rajshahi City, Bangladesh. *Journal of Construction and Building Materials Engineering*, 2(1), pp.1-15, e-ISSN: 2581-6454.
- **Miah, M.M.**, Asad, M.A., Serker, N.K. and Ahmed, T., 2013. Numerical Analysis of Coupled Shear Wall for Drift Control, *Current Advances in Civil Engineering (CACE)*, American V-Kin g Scientific Publishing, Volume 1, Issue 1, pp.27-32
- **MM Miah**, MTI Tanoy, MS Rana., 2016, " Performance Evaluation of Household Waste Plastic as Additive in the Bituminous Mix Design" *International Journal of Scientific & Engineering Research*, Volume 7,PP 1495-1500, Issue 1, January-2016, ISSN 2229-5518

Book Chapter

- Nathanail E.G., Prevedouros P.D., **Mintu Miah M.**, De Melo Barros R. (2019) Predicting the Impact of Text-Reading Using Decision Trees. In: Moura Oliveira P., Novais P., Reis L. (eds) *Progress in Artificial Intelligence. EPIA 2019. Lecture Notes in Computer Science*, vol 11804. Springer, Cham. https://doi.org/10.1007/978-3-030-30241-2_57

Peer Reviewed Conference Proceedings

- **Miah, M.**, Hyun, K., Mattingly, S., Khan, H., (2022) Estimation of Daily Bicycle Traffic Using Machine and Deep Learning Techniques, *Proceedings of the Annual Meeting of the Transportation Research Board, TRB 2022*
- **Miah, M.**, Naz, F., Hyun, K., Mattingly, S., Cronley, C., Fields, N (2020) Barriers and Opportunities for Paratransit Users to Adopt On-Demand Micro Transit, *Proceedings of the Annual Meeting of the Transportation Research Board, TRB 2020*
- **Md Mintu Miah**, Kate (Kyung) Hyun, Stephen P. Mattingly, Joseph Broach, Nathan McNeil, Sirisha Kothuri, (2021), “Challenges and Opportunities of Emerging Data Sources to Estimate Network-wide Bike Counts”, *International Symposium on Transportation Data and Modelling, June 21~23, 2021 @University of Michigan, Ann Arbor, USA.*
- Panos D Prevedouros, Eftihia G Nathanail, **Md Mintu Miah**, Rafaela De Melo Barros (2020). Analysis of Professional Drivers while Text-Reading, and Prediction of Driving Behavior Using Cluster Modeling, *Proceedings of the Annual Meeting of the Transportation Research Board, TRB 2020.*
- **Md. Mintu Miah**, Panos D Prevedouros,(2019). Effects of Reading Text While Driving: Analysis of 200 Honolulu Taxi Drivers on a Simulator, *Proceedings of the Annual Meeting of the Transportation Research Board, TRB 2019.*
- Das, B.K. and **Miah, M.M.**,(2017). Present Conditions of Most Hazardous Road Intersections: A Case Study of Rajshahi City, Bangladesh. *International Conference on Planning, Architecture and Civil Engineering (ICPACE 2017), Volume-1, Issue-1, Pp-265-270, ISBN: 978-984-34-2154-8*

Technical Reports

- Kothuri, S., Broach, J., McNeil N., Hyun, K., Mattingly S., **Miah, M.**, Proulx, F., Nordback, K., (2022). Exploring Data Fusion Techniques to Estimate Network-Wide Bicycle Volumes, National Institute for Transportation and Communities (NITC).
- Kate Hyun, Stephen Mattingly, Courtney Cronley, Noelle Fields, **Md Mintu Miah**, Farah Naz, Shamsun Nahar (2019), *Characterizing Handitrans Users and Their Travel Pattern*, City of Arlington, Texas
<https://drive.google.com/file/d/1wjJ08e9L24LF4Qv1auMR4iTHhSHB08a/view?usp=sharing>
- Prevedouros, Panos; **Miah, M. Mintu**; Nathanail, Eftihia (2020). Effects of Reading Text While Driving: A Driving Simulator Study. Published in *Transportation Research information Database*, Subject Areas: Highways; Safety and Human Factors; Report/Paper Numbers: INE/CSET 20.05; Files: UTC, TRIS, ATRI, USDOT; Accession Number: 01741882; <https://trid.trb.org/view/1708998>
- Prevedouros, Panos D; Bhatta, Kishor; **Miah, M Mintu** (2019). 2007–2016 Fatal Traffic Crashes in Alaska, Hawaii, Idaho, and Washington and Characteristics of Traffic Fatalities Involving Hawaiians and CSET Minorities. Published in *Transportation Research information Database*, Subject Areas: Highways; Safety and

Human Factors; Society; Report/Paper Numbers: INE/CSET 19.06; Files: UTC, TRIS, ATRI, USDOT; Accession Number: 01705745;

<https://scholarworks.alaska.edu/handle/11122/10041>

- **Miah, M.M.**, 2018. Effects of Reading Text While Driving Analysis Of 200 Honolulu Taxi Drivers On A VS500M Simulator, MS Dissertation, University Of Hawai'i at Mānoa, Scholar Space And Proquest.
<https://scholarspace.manoa.hawaii.edu/handle/10125/62045>

CONFERENCE PRESENTATION

- **Miah, M.**, Hyun, K., Mattingly, S., Khan, H., (2022) Estimation of Daily Bicycle Traffic Using Machine and Deep Learning Techniques, *Transportation Research Board* Washington D.C., January 2022
- **Md Mintu Miah**, Kate (Kyung) Hyun, Stephen P. Mattingly, Joseph Broach, Nathan McNeil, Sirisha Kothuri, (2021), "Challenges and Opportunities of Emerging Data Sources to Estimate Network-wide Bike Counts", International Symposium on Transportation Data and Modelling, June 21~23, 2021 @University of Michigan, Ann Arbor, USA.
- **Miah, M.**, Naz, F., **Hyun, K.**, Mattingly, S., Cronley, C., Fields, N (2020) Barriers and Opportunities for Paratransit Users to Adopt On-Demand Micro Transit, *Transportation Research Board* Washington D.C., January 2020
- Panos D Prevedouros, Eftihia G Nathanail, **Md Mintu Miah**, Rafaela De Melo Barros (2020). Analysis of Professional Drivers while Text-Reading, and Prediction of Driving Behavior Using Cluster Modeling, Proceedings of the Annual Meeting of the Transportation Research Board, TRB 2020.
- **Md. Mintu Miah**, Panos D Prevedouros,(2019). Effects of Reading Text While Driving: Analysis of 200 Honolulu Taxi Drivers on a Simulator, Proceedings of the Annual Meeting of the Transportation Research Board, TRB 2019.
- Das, B.K. and **Miah, M.M.**,(2017). Present Conditions of Most Hazardous Road Intersections: A Case Study of Rajshahi City, Bangladesh. International Conference on Planning, Architecture and Civil Engineering (ICPACE 2017), Volume-1, Issue-1, Pp-265-270, ISBN: 978-984-34-2154-8

Invited Talks

- 'International Workshop on Sustainable Protection and Restoration of Soil and Groundwater Environment' - organized by National Cheng Kung University, Tainan, Taiwan, August 23 to August 31, 2015

TEACHING EXPERIENCE

Graduate Teaching Assistant**University of Texas at Arlington, Texas, USA**

- ❖ CE 3302: Transportation Engineering Spring 2019/Summer 2019

Assistant Professor**Rajshahi University of Engineering and Technology (RUET), Bangladesh**

- ❖ CE 4105: Transportation Engineering-II Spring 2017
- ❖ CE 4111: Structural Analysis & Design-III Spring 2017
- ❖ CE 2203: Geology and Geomorphology Spring 2017

Lecturer**Rajshahi University of Engineering and Technology, Bangladesh**

- ❖ CE 3205: Transportation Engineering-I Spring/ Fall 2015/2016
- ❖ CE 1101: Surveying Spring 2014/2015/2016/2017
- ❖ CE 2121: Fluid Mechanics-I Fall 2014/2015/2016
- ❖ CE 2122: Fluid Mechanics Sessional -1 Fall 2014/2015/2016
- ❖ CE 3122: Engineering Hydraulics Sessional Fall 2016
- ❖ CE 3221: Hydrology Fall 2016

Lecturer**Stamford University, Bangladesh**

- ❖ CE 415: Prestressed Concrete Fall 2013/Spring 2014
- ❖ CE 411: Structural Analysis and Design II Fall 2013/Spring 2014

Lecturer**World University, Bangladesh**

- ❖ CE 351: Transportation Engineering-I Summer/Fall 2013
- ❖ CE 451: Transportation Engineering-II Summer/Fall 2013
- ❖ CE 431: Environmental Engineering -III Summer/Fall 2013

Honors

- TexITE Dallas Scholarship-2022
- Prime Minister Gold Medal Award for scoring faculty highest CGPA, UGC, Bangladesh -2012
- University Gold Medal Award for 1st position, RUET, Bangladesh-2011
- Dr. Nazrul Islam Gold Medal for excellent performance in academic records, RUET, Bangladesh-2011
- Best Student Award, RUET, Bangladesh-2011
- Best Student Award, RUET, Bangladesh-2010
- University Merit Scholarships, RUET, Bangladesh-2009/2010/2011

MEDIA

- Student Spotlight: Md Mintu Miah, University of Texas at Arlington, <https://nitc.trec.pdx.edu/news/student-spotlight-md-mintu-miah-university-texas-arlington>

PROFESSIONAL SERVICE AND AFFILIATIONS

- Reviewer, Transportation Engineering, Elsevier, Science Direct Journal 2020-Present
- Reviewer, Transportation Research Board (TRB) Conference Proceedings 2020-Present
- Reviewer, Transportation Research Record (TRR), Sage Journals 2021-Present
- Reviewer, ASCE's Journal of Transportation Engineering, Part A: Systems 2021-Present
- Member: American Society of Civil Engineering #000011424635 2017-Present
- Member: Institute of Transportation Engineers (ITE), University of Texas at Arlington 2019-Present
- Member: Institute of Transportation Engineers (ITE), TexITE, member ID: 1089923 2021-Present

PROGRAMMING AND SOFTWARE SKILL

- Developed Automatic Python Scripts to collect wide range of data using API
- Experienced with Econometric and statistical methods for transportation data analysis using Python and R
- Experienced with travel demand modeling
- Experienced with big data mining, analysis, visualization, and interpretation
- Traffic Analysis and simulation using VISSIM
- Transportation Network planning using GIS and TransCAD
- Data Base Design using SQL
- Statistical modeling using SPSS
- High quality report, journal and conference writing using Latex and Microsoft office

Important link

- Google Scholar: <https://scholar.google.com/citations?user=tYNG1aQAAAAJ&hl=en>
- Research Gate: https://www.researchgate.net/profile/Mdmintu_Miah
- LinkedIn: [linkedin.com/in/md-mintu-miah-9194a3166](https://www.linkedin.com/in/md-mintu-miah-9194a3166)
- Personal Website: <https://mintu07ruet.github.io/>
- Kaggle: <https://www.kaggle.com/mintumiah/>
- RUET Faculty Page: <https://www.ruet.ac.bd/mintu07ruetce>