

FARIA YEASMIN RAHA

Email: rahafaria2@gmail.com

Personal Website: <https://fariaraha.com>

Linkedin: [fariaraha](https://www.linkedin.com/in/fariaraha)

RESEARCH INTERESTS

- Transportation Safety
- Transportation Planning
- Pavement Engineering
- Pavement Design
- Transportation Data Analytics

RESEARCH EXPERIENCE

An Appraisal of Hydroplaning Surface Improvement Materials and Assessment Models – Conference paper April 2022

Accepted for publication in Annual Conference of the Canadian Society for Civil Engineering (CSCE), 2022.

Pandemic induced changes in motor vehicle crash rates and characteristics Jan. 2022 - Present

I am working with Dr. Alyssa Ryan, Ass. Prof, UArizona, and we are researching the effects of the COVID-19 pandemic on the demographic characteristics of drivers in motor vehicle crashes. Regression models with interaction terms have been developed using California vehicle crash data to assess the effect of pandemic.

Detection of FRP debonding in I-Girder by vibration monitoring Oct. 2017 – Oct 2018

For my undergraduate thesis, three non-destructive methods such as frequency analysis, stiffness analysis, and MAC factor analysis were carried out to detect FRP debonding in I beam using the Finite Element Modeling.

. Tools: Abaqus- Finite Element Software, MATLAB 15a

WORK EXPERIENCE

ARMAN Engineering Ltd.- Junior Structural Engineer Oct. 2020 – Aug. 2021

- Responsibilities: Façade design with analysis
- Selected projects: Designing of skylight and windows of Dhaka Metro Rail development project, BRAC University façade design, Faujian Glass roof, Exterior facade design of Exim Bank
- Tools: STAAD Pro, SketchUp, AutoCAD, Glass Wizard

Global Research and Marketing Consultancy Firm – Research Intern May 2020 – Sep. 2020

- Responsibilities: Data collection from respondents, analysis, and providing reviews.
- Project: I was a part of orange door research commissioned by The World Bank to identify the effect of the COVID-19 pandemic in the lives of Bangladeshi people.

EDUCATION

Bangladesh University of Engineering and Technology Aug. 2014 – Sep. 2019

B.Sc. in Civil Engineering

- . Credits completed: 160
- . Selected Courses: Transportation Engineering I: Transportation Planning & Traffic Engineering, Transportation Engineering II: Pavement Design and Railway Engineering, Applied Mathematics for Engineers, Differential Equations and Statistics

STANDARDIZED TEST SCORES

- GRE General Test (Dec. 2019)
Quant – 160, Verbal – 149, Writing – 3.0
- The TOEFL iBT Test (Dec. 10, 2021)
Listening – 27, Reading – 24, Speaking – 22, Writing – 23

TECHNICAL SKILLS

- Programming language and mathematical packages: R Programming, Python, MATLAB
- Structural analysis and design: Abaqus ,STAAD Pro, SAP, ETABS
- Computer Aided Design: AutoCAD, Sketch Up
- Others: Microsoft Office, LaTeX

EXTRA-CURRICULAR ACTIVITIES, AWARDS

- Compensatory Scholarship from Bangladesh University of Engineering and Technology
- Designer in Civil Fest 2017 organized by Civil Engineers Society Associations, BUET