

# Shoaib Mahmud

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## Education

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**Iowa State University, Ames, IA**

MS in Transportation, December 2018 | Current GPA: 3.87/4.00

**Iowa State University, Ames, IA**

Master of Community and Regional Planning, December 2018 | GPA: 3.87/4.00

**Iowa State University, Ames, IA**

Geographic Information System Certificate Program, December 2018

**Bangladesh University of Engineering and Technology, Dhaka, Bangladesh**

Bachelor of Urban and Regional Planning, September 2015 | GPA: 3.55/4.00

## Honors and Awards

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**AICP Outstanding Graduate Student Award** | American Planning Association | April 2018

This award recognizes outstanding attainment in the study of planning by a student who is being graduated from an accredited program during the academic year of the award.

**Marvin R. Springer Fellowship** | Department of Community and Regional Planning, ISU | April 2017

A one-time fellowship award for the first year students in the Masters of Community and Regional Planning program which is awarded in recognition of the outstanding academic progress.

## Professional Experience

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**Iowa State University** | Ames, IA | January 2017 – December 2018

*Graduate Teaching Assistant, Introduction to Geographic Information System (Spring 2017, Fall 2017, Spring 2018, Fall 2018)*

- Communicated with students with their lab work to ensure that they have a better understanding
- Collaborated with the instructor improving the teaching material and grading the homework

**Iowa State University** | Ames, IA | January 2017 – December 2017

*Graduate Research Assistant*

- Designing and implementing a questionnaire in a volunteered geographic information (VGI) platform
- Extracting and analyzing the collected geospatial data

**ISU Geographic Information System Facility** | Ames, IA | January 2017 – July 2017

*Geographic Information System Technician*

- Performing digitization for mapping the best management practices in the watersheds of Iowa

**Department of Urban and Regional Planning, BUET** | Urban Planner | October 2015 – August 2016

*Urban Planner in a project funded by UNICEF and UKAID*

- Communicating and organizing consultation meeting with stakeholders
- Organizing training materials and facilities for data collection

**Dhaka Transportation Coordination Authority, Bangladesh** | Internship | January 2015 – February 2015

- Worked as an intern in the project “Clean Air and Sustainable Environment (CASE) Project” and was responsible supervising field survey (Traffic volume and questionnaire survey)

## Technical Skills

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**Programming, Engineering, and Modeling:** R-programming, Python, JMP, SPSS

**GIS and Remote Sensing:** Eris's ArcGIS desktop and Online, Trans CAD, Geo-planner, Collector for ArcGIS

**Web Development and Mapping:** HTML, JavaScript, CSS, jQuery, Leaflet, and Mapbox

**Others:** Microsoft Office Suite, AutoCAD, and LATEX

## Relevant Coursework

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### Iowa State University

Urban Transportation Planning Models

Transportation Data Analytics

Introduction to Web Mapping and Online GIS

Introduction to Geographic Information System

Survey of Remote Sensing Technologies

Statistical Methods for Researchers

GIS programming and automation

### Bangladesh University of Engineering & Technology

Surveying and Cartography

Programming Techniques

GIS and Remote Sensing Studio

Traffic and Transportation Study

## Test Score

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**Graduate Record Examination (GRE):** 310 (Quant:158, Verbal: 152, AWA:3:00, Taken in 2015)

## Journal and Conference Papers

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1. Poplin, A., Andrade, B. A. and **Mahmud, S.** (2018) "Emotional Dimensions of Places in Cities: Analyzing Intangible Landscapes in the City of Vitória in Brazil" *Cities* (Submitted).

2. **Mahmud, S.**, Huq, M. E., Kar, A., Mashraky, R., Khatun, F, Islam, I. and Akther, M. S. (2014) "Managing Development of Fringe Areas in Dhaka City: 'Land Readjustment' as a Technique for Sustainable Future Development Ensuring Environmental and Social Justice" *International Journal of Undergraduate Research and Creative Activities*, Special edition.

3. Debnath A.K., Shams A, **Mahmud S**, Singha S (2015) "Estimating Economic Benefits of On-Street Parking Prohibition in Motijheel Commercial Area" presented at "Development and Democracy in Bangladesh: Problems and Prospects" organized by Bangladesh Development Initiatives at University of California, Berkeley, November 2015

## Thesis Work

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### Graduate Thesis Work

Topic: Evaluating Student Accessibility to Public Parks Using Objective and Subjective Measures: A Case of Ames, Iowa

- Conducted network analysis to evaluate connectivity of the parks of the City of Ames. Additionally, implemented a questionnaire survey and conducted statistical analyses to determine the influence of non-physical variables on accessibility.

### Undergraduate Thesis Work

Topic: Determining Dynamically Optimized parking price in Motijheel Commercial Area, Bangladesh

- Conducted Geospatial and statistical analysis to identify demand sensitive optimized parking price for the central business district of Bangladesh.