

## Curriculum Vitae Tahsin Tabassum

🌐 [tahsintabassum-bd.github.io/tahsin.tabassum/](https://tahsintabassum-bd.github.io/tahsin.tabassum/)

### Education

#### The University of Oklahoma (OU)

OK, USA

*Master's in Regional and City Planning (MRCPL)*

*Fall'23–Spring'25*

**Grade:** 4.00 out of 4.00

**Major Courses:** Traffic Analysis, Design and Control; Transportation Geography and Planning; Intelligent Data Analytics; Advanced GIS and Spatial Analysis; GIS for Land Use Planning

**Course To be taken:** Analytics and Metaheuristics

**Thesis:** Optimizing Oklahoma city's Transit Network for Equity and Efficiency through Exploring Transportation Justice, Transit Deserts, and Multimodal Safety

**Supervisor:** Professor Ladan Mozaffarian

**Projects:**

- Analyzing Factors Influencing Non-Motorist Crash Occurrence and Severity in Oklahoma: A Macroscopic Analysis of Transportation Safety
- Exploring Transportation Justice and Equity through the 'Transportation Justice Threshold Index Framework (TJTIF)' in Municipalities of Oklahoma County, Oklahoma
- Mapping Transit Equity through Identifying the Transit Deserts in the Oklahoma City
- A GIS-based Accessibility Analysis for Parks in the City of Dallas, Texas, United States
- Developing Zoning Framework for Taft, An All Black Town in Oklahoma

#### Bangladesh University of Engineering and Technology (BUET)

Dhaka, Bangladesh

*Bachelor of Urban and Regional Planning (BURP)*

*Spring'17–Spring'22*

**Grade:** 3.47 out of 4.00

**Major Courses:** Traffic and Transportation Study; Transportation Policy and Planning; Operations Research and Systems Analysis; Elements of Civil Engineering Structures; Elements of Solid Mechanics; Construction Materials; Basic Environmental Engineering; Mathematics I (Algebra and Geometry, Matrix Algebra); Mathematics II (Differential Calculus, Integral Calculus, Differential Equation); Statistics for Planners I (Summarizing Data, Basic Probability Distributions, Decision Analysis); Statistics for Planners II (Decision Making, Regression and Correlation Analysis, Forecasting); Programming Techniques

**Thesis:** A Study on the Distribution of and Equity in Accessibility to Health Facilities in Dhaka (North and South) City Corporation, Bangladesh

**Supervisor:** Professor Md. Musleh Uddin Hasan

**Projects:**

- The Impact on Travel Mode Preferences in the Rural Area of Bangladesh During COVID-19
- Impacts of COVID-19 Pandemic on Travel Behavior of People in Dhaka, Bangladesh
- Assessment of Utility and Safety Facilities of Large Scale kutchha bazars (kitchen markets) in Dhaka city, Bangladesh
- A study on the Roles of the Local Government in Tackling COVID-19 Pandemic, Ward-21, Dhaka North City Corporation, Bangladesh

### Professional Experiences

#### Department of Regional and City Planning, OU

OK, USA

*Graduate Teaching Assistant*

*August'24–Present*

**Responsibilities:**

Leading discussion sessions, Facilitating lab, Grading and providing timely feedback, Assisting with course management on Canvas, Holding office hours for student support

*Graduate Research Assistant*

*August'23–Present*

## Projects:

1. Mapping Transit Equity: A Spatial Analysis of Transit Deserts and Infrastructure Gaps in Oklahoma City  
**Supervisor:** Professor Ladan Mozaffarian  
**Responsibilities:** Literature review, Transit demand analysis, Transit supply analysis, Transit gap identification, Mapping and visualization, Writing paper
2. A Study to Analyze the Mental Health Condition and the Accessibility to Resource Centers of LGBTQ Communities in California.  
**Supervisor:** Professor Bryce C. Lowery  
**Responsibilities:** Spatial data collection from Google Earth Pro, Mapping LGBTQ resource centers with provided facilities
3. Affordable Housing in Cities of Oklahoma.  
**Supervisor:** Professor Bryce C. Lowery  
**Responsibilities:** Meetings with stakeholders, Data collection from Zillow, Mapping different type of housing units

## Enertech

### GIS Intern

**Manager:** Robby Howe

I was involved in several projects of the pipeline such as Integrity Management, Public Awareness, Geofencing, Liaison Services.

#### Responsibilities:

Managed data: pulling, cleaning, deduping, and quality control for accuracy; Digitized features, geocoded, and analyzed spatial data using geoprocessing tools; Engaged with stakeholders through meetings and training programs; Created dashboards, published AGOL web layers, and built web apps for data visualization; Involved in rooftopping, versioning and Geofencing

**Kansas, USA**

*June'24–July'24*

## Centre for Climate Change and Environmental Research, BRAC University

**Bangladesh**

### Research Assistant

*January'23–July'23*

**Supervisor:** Professor Ainun Nishat

#### Completed projects:

1. To Reduce Road Traffic Accidents in Relation to Achieve SDG: Challenges and Strategies.
2. Ethnic Communities in Bangladesh: Their Struggle Against Adverse Impact of Climate Change.
3. The Climate Change Impact on Ready-made Garment (RMG) Workers in Bangladesh.
4. Scale-up Adaptation for Resilient Infrastructure, with a Focus on Building Capacity to Integrate Climate Adaptation and Resilience into Infrastructure Projects in Bangladesh.
5. Introducing Climate Resilient Infrastructure.

#### Responsibilities:

Proposal writing for grants; Literature review; stakeholders mapping; Coordinating meetings with stakeholders; Community engagement data collection through questionnaire surveys, key informant interviews, focus group discussion; Conducting workshops; Organizing events; Data analyses using statistical methods and GIS; Report writing.

## WaterAid Bangladesh

**Bangladesh**

### Intern

*July'21–September'21*

**Manager:** Saief Manzoor-Al-Islam

I worked as a part of 'Composite Actions for Climate Migrants in Urban Slums (CACMUS) Project' under 'Climate Resilience Program'. I have got the opportunity to conduct research on developing a Water, Sanitation and Hygiene Poverty Index of the slums under the project areas during my internship.

## Expertise

**Traffic Analysis:** PTV Vissim, PTV Visum

**Programming Language:** Python, R

**GIS and Remote Sensing:** ArcGIS Pro, ArcMap, QGIS, ArcGIS Online, Alteryx

**Auto CAD and 3D Design (Sketchup)**

**Qualitative Analysis:** NVivo

Microsoft Office Suite and Project  
LaTeX  
Graphic Design: Adobe Illustrator, Photoshop

## Publications

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- Journal.....
1. **T. Tabassum**, L. Mozaffarian "Mapping Transit Equity: A Spatial Analysis of Transit Deserts and Infrastructure Gaps in Oklahoma City" - To be submitted in *Journal of Transport Geography*
  2. **T. Tabassum**, L. Mozaffarian "Exploring Transportation Justice and Equity through the Transportation Justice Threshold Index Framework (TJTIF) in Oklahoma, USA" - To be submitted in *Transportation Research Interdisciplinary Perspectives*
  3. **T. Tabassum**, L. Mozaffarian "A Systematic Literature Review on Transportation Equity and Justice" - To be submitted in *Transport Reviews*
  4. **T. Tabassum**, L. Mozaffarian "Analyzing Factors Influencing Non-Motorist Crash Occurrence and Severity in Oklahoma: A Macroscopic Analysis of Transportation Safety" - In preparation
- Conference.....
5. **T. Tabassum**, L. Mozaffarian "A Spatial Analysis of Transit Deserts and Infrastructure Gaps in Oklahoma City" - In *International Conference on Transportation & Development (ICTD 2025)*, *American Society of Civil Engineers (ASCE)*
  6. **T. Tabassum** "Exploring Transportation Justice and Equity through the 'Transportation Justice Threshold Index Framework (TJTIF)' in Municipalities of Oklahoma County, Oklahoma" - In *Association of Collegiate Schools of Planning (ACSP) Annual Conference 2024* - **Ed McClure Award for Best Master's Paper**
  7. **T. Tabassum**, L. Mozaffarian "[A GIS based Accessibility and Equity Analysis of Urban Parks in Dallas, Texas, USA](#)" - In *Association of Collegiate Schools of Planning (ACSP) Annual Conference 2024* - [Abstract available in conference proceedings - Track 5 : Research in Motion (RiM)]
  8. **T. Tabassum**, F. Zohora, S. Manzoor-Al-Islam, N. Tahsin "Developing Evidence on Water, Sanitation and Hygiene Facilities in the Climate Vulnerable Slums through WASH Poverty Index: A Case Study on Slums in Rajshahi City Corporation, Bangladesh" - In *9th International Conference on Water and Flood Management (ICWFM), 2023* - [Abstract available in conference proceedings]
  9. **T. Tabassum**, M. Mahjib Hossain, S.N. Nipa, R. Khanum, A. Nishat "Assessment of Vulnerability and Identification of Adaptation Strategies in Haor Region, Bangladesh: A Case Study on Tahirpur Upazila, Sunamganj district, and Itna Upazila, Kishoreganj district" - In *9th International Conference on Water and Flood Management (ICWFM), 2023* - [Abstract available in conference proceedings]
- Poster.....
10. **T. Tabassum** (Presenting Author), L. Mozaffarian "Mapping Transit Equity: A Spatial Analysis of Transit Deserts and Infrastructure Gaps in Oklahoma City" - In [Oklahoma Transportation Research Day, Organized by Oklahoma Department of Transportation \(October 2024\)](#)
  11. **T. Tabassum** (Presenting Author), S. Roy Chowdhury "A Study on the Distribution of and Equity in Accessibility to Health Facilities in Dhaka (North and South) City Corporation, Bangladesh" - On [GIS DAY, Organized by Center for Spatial Analysis, University of Oklahoma \(November 2023\)](#)

## Awards and Honours

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Gilbert Ludeman Memorial Scholarship, OU

2024-2025

Christopher C. Gibbs Endowed Enrichment Scholarship, OU	2024-2025
<a href="#">Ed McClure Award for Best Master's Paper</a> , ACSP	2024
Robberson Travel Grant, OU	2024
'Top 10' teams of Green Inclusive Business Champion, Greentech Foundation,BD	2021
Champion of Commonwealth ICT and Telecommunication's Global Competition, UK	2020

## Extracurricular Involvement

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Student Member, American Planning Association	<i>Fall'24 - Present</i>
Secretary, Student Planning Association (SPA) - OU Chapter	<i>Spring'24 - Present</i>
Member, Institute of Transportation Engineers (ITE) - OU Chapter	<i>Spring'24 - Present</i>
Vice-President, BUET Photographic Society	<i>February'21 - May'22</i>
Director, BUET Career Club	<i>February'21 - May'22</i>
Co-Campus Ambassador, Bangladesh Youth Climate Network	<i>July'20 - July'21</i>

## Blogs and Newspaper Articles

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1. **T. Tabassum**, "[Mental Health in Slums – the Case of Bangladesh Among Other Developing Countries](#)" (July 2021)
2. **T. Tabassum**, R. Khanum, S. N. Nipa, "[Ethnic communities in Bangladesh: Their struggle against the adverse impact of climate change](#)" (April 2023)

## References

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### **Prof. Ladan Mozaffarian**

*Assistant Professor, Division of Planning, Landscape Architecture and Design, OU*

**Email:** ladan.mozaffarian@ou.edu

### **Prof. Charles G. Warnken**

*Associate Professor, Division of Planning, Landscape Architecture and Design, OU*

**Email:** cwarnken@ou.edu

### **Prof. John C. Harris**

*Director & Associate Professor, Division of Planning, Landscape Architecture and Design, OU*

**Email:** johncharris@ou.edu