



# NUZHAT TABASSUM NAWSHIN

Ph.D. Student

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## Research Interest

Cartographic design, Visual storytelling, User-centered design, GIS

## Education

### Ph.D. Student (Cartography/GIS)

August 2022 – present

*University of Wisconsin-Madison*

**Advisor:** Prof. Dr. Robert E. Roth

### M.Sc. in Cartography

October 2017 – March 2021

*Technical University of Munich (TUM), Technical University of Vienna (TUW), Technical University of Dresden (TUD) and University of Twente (UT)*

**Thesis:** A systematic approach to formulate design recommendations for location-based stories in augmented reality

**Supervisor:** Dr.-Ing. Mathias Jahnke

([https://cartographymaster.eu/wp-content/theses/2021\\_Nawshin\\_Thesis.pdf](https://cartographymaster.eu/wp-content/theses/2021_Nawshin_Thesis.pdf))

### B.Sc. in Geography and Environment

January 2012 – August 2016

*University of Dhaka, Bangladesh*

## Work Experience

### Project Assistant

May 2023 – present

*University of Wisconsin Sea Grant Institute*

- Development of locative audio tours for green infrastructure practices in Milwaukee

### Cartographer/Student Assistant

May – August 2023, present

*Cartography Laboratory, Dept. of Geography, UW-Madison*

- producing maps for several client projects

### Reader/Grader

May – August 2023, present

*Course: GEOG 370 – Introduction to Cartography, Dept. of Geography, UW-Madison*

- grading student assignments and projects

### Teaching Assistant

August 2022 – May, 2023

*Course: GEOG 370 – Introduction to Cartography, Dept. of Geography, UW-Madison*

- teaching lab session and guiding students to use ArcGIS Pro and Adobe Illustrator for mapping

### Geoinformation Tutor

November 2019 – February 2020

*Geoinformation lab, Cartography Chair, TUM, Germany*

- designing exercise tutorials for ArcGIS Pro and helping students with technical issues in lab

### Research Data Coordinator

February 2017 – March 2017

*Nazrul Islam Urban Studio, University of Dhaka, Bangladesh*

- entering, verifying and interpreting spatial and socio-economic data using SPSS for preparing ArcGIS maps for a government funded project on “Adaptation of Climate Change Induced Internally Displaced People of Dhaka City”

### GIS and Data Entry Associate

March 2016 – October 2016

*House of Consultants Ltd. (HCL), Bangladesh*

- managing physical attribute, digitizing and compiling mouza maps and producing land use maps from satellite images for “Upazilla Town Infrastructure Development Plan (UTIDP)” undertaken by the Urban Development Directorate (UDD) of Bangladesh

## Skills

**Mapping tools:** ArcGIS (Pro, Desktop, Online, StoryMaps, Experience Builder), QGIS, Mapbox Studio, Carto, Tableau, ERDAS Imagine

**Software and tools:** Visual Studio Code, Brackets, Pycharm, RSudio, Android Studio, Adobe Creative Cloud (Illustrator, Photoshop, InDesign), Scribus, SPSS, MS Office suite

**Programming languages:** HTML, CSS, JavaScript, PostgreSQL, Python

**Languages:** English (C1), German (B1), Bengali (native), Hindi (speaking)

## Conference Presentations

**AAG 2024, Honolulu** – Abstract: *User-Centered Design of Locative Audio for Mobile Cartography: A Preliminary Study*

**WLIA 2024, Green Bay** – Cartography for Adaptive Coastal Management in Wisconsin - Shorewood's Locative Audio Water Walk

**ICC 2023, Cape Town** – Abstract: *Design Recommendations for Map-based Storytelling in Augmented Reality: A Preliminary Study*

## Other Projects

> developing a map-based Android application (group) for tourists in Vienna using Java at TUD (2019)

> "Alpine Cartography Field School 2018" by TU Dresden including outdoor lectures, workshops and field presentations on georelief, geology, glaciology, navigation and orientation, and projects on preparing Croqui (sketch maps) and panoramic maps using QGIS and Adobe Illustrator

> mapping project on creating aesthetic printable maps (*Bewitching Bangladesh*) using ArcGIS, Adobe Illustrator and Adobe Photoshop at TUW (2018)  
available at -<https://cartography.tuwien.ac.at/great-student-projects-summer-2018/>

> creating a map-based website (group) for *Environmentally Endangered Animals* of the world using HTML+CSS and Javascript (2018)

> B.Sc. final project on the Land use Pattern of Kurigram Municipality, BD including collection of land use and socio-economic data and creation of maps using ArcGIS Desktop (2016)

## Scholarships & Achievements

**NSF scholarship (2024)** - Geospatial Cyberinfrastructure Workshop: Building High-Performance, Ethical, and Secured Geospatial Software at the 2024 AAG Annual Meeting (Honolulu)

**ICA Scholarship (2023)**– 31<sup>st</sup> International Cartographic Conference (Cape Town)

**Trewartha Conference Travel Awards (2023 & 2024)** – for ICC 2023 and AAG 2024

**Erasmus Mundus Scholarship (2017-2019)** - Cartography M.Sc. program

**Merit scholarship (2016)** - Excellent academic performance at University of Dhaka

**Certification workshop (2016)**– Leadership & Professional Development at Bangladesh Youth Leadership Center

**Winner (2014) and runner-up (2015)** - group project display at National Environment Fair, Bangladesh

**Event organizer and photographer (2012-2016)** - Dhaka University Environment Club

**Volunteer (2012-2016)** - Community Action, Bangladesh