



# NUZHAT TABASSUM NAWSHIN

Ph.D. Student

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📁 <https://ntnawshin.github.io/Portfolio/>

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## Research Interest

Cartographic design, Visual storytelling, 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:** Formulating design recommendations for location-based stories in augmented reality

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

### B.Sc. in Geography and Environment

January 2012 – August 2016

*University of Dhaka, Bangladesh*

**Final Group Project:** Depicting Land use Pattern of Kurigram Municipality, BD by collection of land use and socio-economic data and creation of maps using ArcGIS Desktop

## Work Experience

### Teaching Assistant

August 2022 – present

*Dept. of Geography, University of Wisconsin-Madison*

Course: GEOG370 – Introduction to Cartography (with Dr. William Gartner, Dr. Bill Limpisathian)

- 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 with Dr. Christian Murphy

### 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”

### IELTS Instructor

November 2016 – September 2017

*Mentors' Bangladesh*

- teaching basic communicative English and preparing students for the IELTS test

### 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:** ESRI ArcGIS software suite (Pro, Desktop, Online, Storymaps), QGIS, Mapbox Studio, ERDAS Imagine

**Software and tools:** Adobe Illustrator, Adobe Photoshop, MS Office suite (Word, Excel, PowerPoint, Access), Scribus, Visual Studio Code, Brackets, Android Studio, Pycharm, RSudio

**Programming languages:** Fundamental knowledge of PostgreSQL, HTML, CSS, JavaScript, Python, R and Java

**Languages:** English (C1), German (A2), Bengali (native), Hindi (conversational)

## Selected Projects

Available at- <https://ntnawshin.github.io/Portfolio/>

## Other Projects

> participated in “Design Challenge 2023 – Visualizing the evolution of the Great Plains” organized by the UW Cartography Lab (February 2023) and attempted to create shaded terrain maps in ArcGIS Pro and Photoshop showing the changes of the plains over time (with a team)

> participated in “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

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

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

## Achievements and Activities

**Erasmus Mundus Scholarship** - E+ JMD Cartography by Erasmus+: Erasmus Mundus consortium under European Commission for Cartography M.Sc. program (2017-2019)

**Merit scholarship** for excellent performance in undergraduate program at the University of Dhaka (2015-2016)

**Participation certificate for the workshop on Art and Practice of Leadership and Professional Development** at Bangladesh Youth Leadership Center (2016)

**First (2014) and third (2015) place holder for group project display** at National Environment Fair under the Ministry of Environment and Forestry, Bangladesh

**Executive member, event organizer and photographer** at Dhaka University Environment Club and National Environment Olympiad (2012-2016)

**Volunteer/Actioneer** at Community Action Bangladesh, a social service organization (2012-2016)

## References

Available upon request