



Mahnoor Ahmed

M.SC. GEO-INFORMATION SCIENCE AND EARTH OBSERVATION

Department of Applied earth Sciences, Faculty of Geo-Information Science and Earth Observation (ITC),
University of Twente, The Netherlands

UNIVERSITY OF TWENTE

Personal statement

Landslide analysis enthusiast. Current direction for research: Connecting landslide modelling outputs (mainly using R) to community vulnerability in the form of early warning systems. Interested in developing a deeper understanding in natural hazards, particularly landslides, and using immense amount of geospatial data (mainly using Google Earth Engine) to produce useful outputs.

Education

University of Twente

The Netherlands

MSc in GEOINFORMATION SCIENCE AND EARTH OBSERVATION, SPECIALIZATION: NATURAL HAZARDS AND DISASTER RISK
REDUCTION

August 2020–August 2022

- Thesis: "Towards near real-time spatial forecasting of rainfall-induced landslides"
- Main subjects: *Data-driven Hazard Modelling, Physically-based Hazard Modelling, Weather Impact Analysis, Big Geo-data Processing, Global Challenges and Local Action*
- Grade: 7.99/10 [MSc Thesis yet to be graded]

Forman Christian College University

Pakistan

BSc in GEOGRAPHY (MAGNA CUM LAUDE)

January 2016–June 2019

- Thesis: "Another Perspective of Collaborative Techniques of GIS Towards Crime Hotspot analysis (A case study of Lahore District, Pakistan)"
- Main subjects: *Fundamentals of Geography, Digital Cartography, Basic Statistic, Natural Hazards and Management Issues, Fundamentals of Remote Sensing, Regression Analysis*
- Grade: 3.764/4

Research experience

King Abdullah University of Science and Technology (KAUST)

Thuwal, Saudi Arabia

RESEARCH INTERN

Jan 01 2022 to May 01 2022

Project title: Statistical Modelling Techniques using Geospatial Data.

Supervisor: Raphael Huser

University of Twente (ITC)

Enschede, Netherland

SUMMER INTERN

Jul 20 2021 to Aug 20 2021

- Project title: Mapping of Retrogressive Thaw Slumps on Svalbard in Arctic.
- Supervisor: Dr. Luigi Lombardo and Dr. Lena Rubensdotter

Awards

Mobility Fund for doing research internship at KAUST in 2022.

ITC Excellence Scholarship of 30,885 Euros and tuition waiver of 11,994 Euros for the best students with a very good academic track record for studying Master's degree programme at ITC 2020-2022.

Aziz and Shaheen Haque Medal for securing the highest CGPA in the Department of Geography for BSc session ending in 2019.

Magna Cum Laude award at BSc graduation in 2019.

Technical skills

Programming languages: R, JavaScript (GEE), python (basics).

GIS: QGIS, SAGA GIS, ArcGIS, ILWIS.

Languages

Urdu: Mother tongue; English: full proficiency; Punjabi: limited working fluency but skilled daily-life communication.

Online courses

'Getting Started with GIS' Esri Training (2018)

'Introduction to Green Infrastructure' Esri Training (2018)

'Telling Stories with GIS Maps' Esri Training (2018)

'Using GIS to Solve Problems' Esri Training (2018)

'Getting Information from a GIS Map' Esri Training (2018)

References

- Name: Asst. Prof. **Dr. Luigi Lombardo**
Email: *l.lombardo@utwente.nl*
Topic: Data Driven Hazard Modelling
Relation: M.Sc. Thesis Supervisor
- Name: Asst. Prof. **Dr. Hakan Tanyas**
Email: *h.tanyas@utwente.nl*
Topic: Earthquake triggered landslides
Relation: M.Sc. Thesis Supervisor
- Name: Dr. **Raphaël Huser**
Email: *raphael.huser@kaust.edu.sa*
Topic: Statistical Modelling of Natural Hazards
Relation: Internship Supervisor