

Faisal Ahmed

Ph.D. Student

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ResearchGate ; LinkedIn

Education

- Ph.D. Student** Department of Civil Engineering at University of North Dakota (Fall 2023 –Present)
Area: Environmental Engineering
Advisor: Dr. Mahmut S. Ersan
- M.S.** GIScience and Geo-environment at Western Illinois University (2021- 2023)
Thesis title: A Comparative Study of Environmental Education in Conventional versus Alternative Schools in Bangladesh: A Case Study.
Advisor: Dr. Sunita George
- M.S.** Environmental Sciences, Jahangirnagar University, Bangladesh (2010-2012)
Thesis title: Sanitation and environmental status of nearby village around the industrial activities of Dhaka Export Processing Zone (DEPZ), Bangladesh.
Advisor: Dr. Abdu Kadir Ibne Kamal
- B.S.** Environmental Sciences, Jahangirnagar University, Bangladesh (2005-2010)

Research Interests

Unknown PFAS detection, Biofuels, Wastewater treatment, Remote Sensing, Geoinformatics (GIS).

Awards

- Dennis Lubbs Memorial Geography Scholarship, awarded by the Department of Earth, Atmospheric, and GIS, Western Illinois University, 2022 – 23
- President Huang International Scholarship, awarded by Western Illinois University Foundation 2022 – 23
- International Commitment Scholarship, awarded by Western Illinois University Foundation 2021-22 & 2022-23
- UND Angel Fund Scholarship, Fall 2023
- UND Open Door Scholarship, Fall 2023

Publication

- Mohammad Hossain Bin Idrish, & Faisal Ahmed (2024). Deconstructing the nexus between the influx of Rohingya refugees and the economy (Labor) in Cox's Bazar, Bangladesh. *GSC Advanced Research and Reviews*, 18, 290-298. <https://doi.org/10.30574/gscarr.2024.18.1.0016>
- **Ahmed F**, Idrish MHB, and Kamal AKI. (2023). A review of current water governance in Bangladesh: A Case study on administrative and performance of water policy by Faisal Ahmed, Abdul Kadir Ibne Kamal, Mohammad Hossain Bin Idrish *published at:* "Scientific Research Journal (Scirj), Volume XI, Issue XII, December 2023 Edition, Page 1-10.
- **Ahmed F**, Bahauddin KM, and Kamal AKI. (2023). Exploring health problems among lead acid storage battery workers in Dhaka city, Bangladesh. *Am. J. Pure Appl. Sci.*, 5(1), 1-12. <https://doi.org/10.34104/ajpab.023.001012>
- Hasnat MF., and **Ahmed F**. (2023). The history of the Rohingya crisis: origin and uprising, *Br. J. Arts Humanities.*, 5(4), 192-208. <https://doi.org/10.34104/bjah.02301920208>
- Sufian MA, Rahaman MZ, **Ahmed F**, and Dewan HA. (2023). Analysis of rejection data in the lasting section of the footwear industry. *Aust. J. Eng. Innov. Technol.*, 5(2), 35-57. <https://doi.org/10.34104/ajeit.023.035057>
- **F Ahmed**, F Ahmed, M Alam, MR Islam, AKI Kamal (2015) 'Sanitation and Environmental Status of Nearby Village around the Industrial Activities of Dhaka Export Processing Zone (DEPZ), Bangladesh'.

Conference Proceedings and Presentation

Faisal Ahmed, Gamze Ersana, Mahmut S. Ersan. Adsorption of Pharmaceutical Contaminants on Magnetic Iron-Doped Powdered Activated Carbon. 2024 RRV-ACS Research Conference, February 2024, Bemidji State University, Minnesota, United States. (Poster Presentation).

Research Experience

- **Ersan Research Lab (Fall 2023 – Present)**, Department of Civil Engineering, University of North Dakota
Responsibilities: Detection and control of emerging contaminants (PFAS) in natural and engineered systems, sample preparation, collection, and data logging; Lab Head - Mahmut Selim Ersan, Ph.D.
- **Researcher (2021 –2023)**, WIU GIS Lab, GIScience and Geoenvironment at Western Illinois University
Responsibility: Conducted Arc GIS analyses to produce various types of Maps under the guidance of Dr. Christopher Sutton under the mentorship of Dr. Christopher Sutton in partnership with the Adams County Health Department and Blessing Health System, constructed “Story Map of Quincy, IL, 2022.
- **Researcher, (November 2005 - February 2012)** Environmental Science Lab, Jahangirnagar University, Bangladesh
Responsibility: Conducted Environmental Health Assessment at Savar, Dhaka under the supervision of Dr. Abdul Kadir Ibne Kamal. Monitoring and removal of pollutants in industrial wastewater under the supervision of Dr. ANM Fakhruddin

Teaching Experiences

Graduate Teaching Assistant (2023-Present), Department of Civil Engineering, University of North Dakota

Responsibility: Grading assignments or papers

- Assisting faculty with classroom instruction, records, and assignments
- Meeting with students during office hours
- Providing feedback on assignments
- Proctoring examinations
- Obtaining and distributing course materials

Lecturer, Department of Geography and Environment, Mirpur Girl’s Ideal Laboratory Institute, Dhaka (January 2017, to March 2021) and Moderator, Mirpur Girls Ideal Science Club

Responsibility: Taking classes on Geography and Environmental aspects (especially environmental aspects including pollution and degradation of the environment and their mitigation)

- Maintain students’ attendance records, grades, and other required records
- Prepare course materials like syllabus, homework assignments, and hand notes
- Plan, evaluate, and revise curriculum, content, materials, methods of instruction
- Supervise students for fieldwork on different geological and environmental issues.
- Initiate, facilitate, and moderate classroom discussions and publish ‘Wallpaper’.

Training & Workshop

- Improve Career Building Capacity by Youth against Hunger, Jahangirnagar University, Dhaka.
- How to prepare yourselves for the corporate world” by the City Bank Ltd. at Jahangirnagar University, Dhaka.
- Joined a workshop of “Climate camp” arranged by Oxfam and PRAN, June 2010, Dhaka.

Technical Skills

- Proficient in MS office, and SPSS.
- Proficient in ArcGIS Pro to analyze GIS data and produce maps.
- Proficient in Adobe Photoshop and Illustrator

Special Certification

- Certified Lecturer (Geography & Environmental Science, 2014), Non-Government Teachers' Registration & Certification Authority (NTRCA) Ministry of Education, Bangladesh

Language Skills

- Proficient in Bengali and English and a moderate user of Hindi and German.

Other Working Experiences

Alumni Engagement Associate (March 2023 to May 2023), Western Illinois University

Responsibilities: Promote awareness of the organization's mission and work

- Cultivate a network of dedicated donors
- Spot new fundraising opportunities
- Plan fundraising initiatives to financial goals
- Form strong relationships with internal and external stakeholders
- Ensure major donors are satisfied and kept in the loop.

Fulfillment Associate (January 2020 to June 2020), Amazon, Berlin-Schonefeld

Responsibilities: Receive and put away inventory.

- Get customer orders ready and pack them up.
- Use scanners to read bar codes on products.
- View prompts on screens and follow the directions.
- Ensure product meets quality requirements.

Vice Chairman (January 2012 to July 2015), Sunmoon International School

Responsibilities: Preparing the yearly academic plan.

- Assisting with the preparation of the yearly budget.
- Implement financial policies and procedures.
- Organizing meetings with parents and Local stakeholders.

Internship

FCI BD Group and Talisman Group at "DEPZ", Dhaka, Bangladesh (January 2011 to March 2011)

- Support to maintain the Environmental Sustainability Plan
- Assist in maintaining Ethical and Environmental Standards
- Assist to waste audit to identify types and volumes of waste generated and reduction and recycling.

Membership

- Member of The Illinois Geographical Society.
- Technical Advisor, YESS (Youth Environmental & Social Services) H # 4, Road 2, Banani Dhaka, Bangladesh
- Working Organizer' of Bangladesh Manobadhikar Bastobayon Foundation (BMF).
- Member of 'The Bangladesh Environmental Scientist Society'.
- Chairman and Mentor, Young's Organization for Urban Research (YOUR).

Outreach Activities

- Norther Valley Career Expo, October 25, 2023, as an exhibitor from the Department of Civil Engineering, University of North Dakota.
- Outreach Program at the University of North Dakota exhibiting the Environment Engineering program under the Department of Civil Engineering
- Cultural Exchange program in Australia nominated by Bangladesh Government for a 1-year trip in (2015-2016).

Strengths

- Have leadership qualities and honesty & sincerity to work.
- Dynamic, self-motivated, good organizer, and have managing skills.
- Have interpersonal skills and effective communication skills.

References

- **Mahmut Selim Ersan, Ph.D.**

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University of North Dakota, Grand Forks, ND, USA
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- **Sunita George, Ph.D.**

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- **Abdul Kadir Ibne Kamal**

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