**MD SADRIL ISLAM KHAN**

346 Social Sciences & Humanities

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*‘An Academician and a Competent Professional in the field of Earth & Environmental Sciences having Excellent Communication and Leadership Skills’*

**Professional Experience:**

* Graduate Teaching Associate, Department of Geography, Oklahoma State University, USA (August 2023- Present)

Responsibilities -Teaching, Field Work, Proctoring, Lab Preparation and Equipment

Manager

Courses Taught –

Physical Geography Lab (GEOG 1114)

* Summer Research Intern, Rural Confluence Project, National Science Foundation (NSF) (May 2024- August 2024)

Responsibilities - Big dataset processing, statistical and exploratory data analysis for understanding climatic variability using R/Python Programming and GIS, NetCDF data processing

* Senior Lecturer (On Study Leave), Department of Environmental Science and Disaster Management, Daffodil International University, Dhaka, Bangladesh. (September 2022- Present)

Lecturer, Department of Environmental Science and Disaster Management, Daffodil International University, Dhaka, Bangladesh. (May 2019- August 2022)

Responsibilities – Teaching, Research, Project Work, Administrative Task

Courses Taught –

* Environmental Economics (ECO 101),
* Remote Sensing and GIS (with Lab) (GIS 201),
* Environmental Resource Management (ESDM203),
* Environmental Hazard and Disaster Management (ESDM 206),
* Climatic Disaster Management (ESDM 209),
* Fundamentals of Ecology (ESDM 105),
* Biodiversity Conservation (ESDM 304),
* Urban Waste and Effluent Management (ESDM 401),
* Public Health and Environment (ESDM 405),
* Environmental Laws and Ethics (ESDM 407),
* Environmental Modelling (ESDM 402),
* Gender and Environment (ESDM 406).

Projects –

* Improvement of the Existing Polluted Water Body at the Daffodil Smart City –Implemented (Researcher and Proposal Writer)
* Proposal on Launching Research Vessel to Study River Pollution and Preservation in Bangladesh - Proposed (Researcher and Proposal Writer)
* Ecotourism and Green Energy Development at Daffodil Smart City – Implemented (Researcher and Proposal Writer)

Demo Class Link -

Used as the standard for teacher recruitment at university level.

* <https://youtu.be/vEACLjSBgwE> (Physical)
* <https://youtu.be/YrICmLpQFys> (Online)
* Scanning and Machine Operator (Part-Time) (October 2017- May 2018)

Peacock Warehouse, Treforest Estate, Wales, United Kingdom

**Academic Qualification:**

* **Doctor of Philosophy (PhD) in Geography (Ongoing) (Fall 2023 – Present)**

Oklahoma State University, United States of America

Research Topics – Droughts, Climate Change, RS/GIS, Sustainable Development

Relevant Coursework – Climate Change – Past, Present, Future, Professional Development in Geography, Research Writing in English, Current Geographic Research, Geographic Analysis, Topics and Readings in Geography, History and Philosophy of Geography, Global Water Resources, Mixed Methods in Field Research, Spatial and Non-Spatial Database Management. (In Progress).

* **Master of Science (MSc.) in Renewable Energy & Resource Management (2018)**

University of South Wales, United Kingdom

Dissertation- *‘An Assessment of the Potentiality and Challenges of Hydropower Generation in Bangladesh.’*

Relevant Coursework – Solid Resource Management, Anaerobic and Aerobic Treatment Processes, Wastewater Treatment Processes, Energy and Environmental Policy and Legislations, Hydropower, Solar Energy, Wind Energy, Wave Energy, Hydrogen Fuel, Geothermal Energy, Tidal Power.

* **Bachelor of Science (BSc.) Honours in Geology (2015)**

University of Dhaka, Bangladesh.

Relevant Coursework – Hydrology, Environmental Geology, Remote Sensing and GIS, Palaeontology, Geology of Bangladesh, Geo-statistics, Mineralogy, Sedimentology, Petrology, Geophysics, Geochemistry, Plate Tectonics, Seismology, Petroleum Geology, Mining Geology, Marine Geology.

* **Higher Secondary Certificate (H.S.C) in Science (2010)**

Notre Dame College, Bangladesh

* **Secondary School Certificate (S.S.C) in Science (2008)**

Rajendrapur Cantonment Public School and College, Bangladesh

**Research:**

**Research Interest:**

Global Warming Impacts and Mitigation, Droughts, GIS, Sustainable Energy and Resource Management.

**Research Group:**

* AgroEco Sensing and Modeling (2023-Present)
* ESDM Research Group (2019-2023)
* Sustainable Energy Research Centre (2017-2018)

**Journal Publication:**

* Rahman, M., **Khan, M.S.I.**, Hossain, M., Hossain, M., Hasan, M., Hamli, H. and Mustafa, M., 2022. Groundwater Contamination and Health Risk Evaluation of Naturally Occurring Potential Toxic Metals of Hatiya Island, Bangladesh. Journal of Ecological Engineering, 23(6), pp.223-236.

<http://www.jeeng.net/Groundwater-Contamination-and-Health-Risk-Evaluation-of-Naturally-Occurring-Potential,148192,0,2.html>

* Rahman, M., Das, R., **Khan, M.S.I.**, Hossain, M., Faruque, M., Khan, N. and Siddique, M., 2022. Textural characteristics of surficial sediments along the Noakhali coast, Bangladesh: An implication for mineral placer deposits exploration. Regional Studies in Marine Science, [online] Available at: <https://www.sciencedirect.com/science/article/abs/pii/S2352485522000743>
* Parveen, M., Abdullah, M., Rahman, S., Chowdhury, M., Pasha, A. and **Khan, M.S.I.**,

2021. Improvement of wastewater quality of Dhaleswari river, Bangladesh using

submerged macrophyte Egeria densa. In: International Workshop on UI GreenMetric.

* Rahman, A., Quamruzzaman, C., Ahmed, T., Islam, K., **Khan, M.S.I.**, Hossain, I., Zaman, C. (2017).*3-Dimensional Modeling and Analysis of Mineable Seam of Khalashpir Coal Field, Rangpur, Bangladesh.*International Journal of Emerging Technology and Advanced Engineering. Volume 7, ISSN 2250-2459.
* Rahman, A., Quamruzzaman, C., Ahmed, T., Islam, K., Hossain, I., **Khan, M.S.I.**, Zaman, C. (2017). *Coal Reserve Estimation and Selection of Mining Method in Khalashpir Coal Field, Rangpur, Bangladesh.*International Journal of Emerging Technology and Advanced Engineering. Volume 7, ISSN 2250-2459.

**Industrial Visit and Field Work:**

* Physical Geography field work, Western Oklahoma, USA. (2023 & 2024)
* In Situ Biodiversity Conservation Projects, Bhawal National Forest, Gazipur, Bangladesh. (2023)
* Atomic Energy Research Facility AERE, Savar, Dhaka, Bangladesh. (2022)
* Central Effluent Treatment Plant visit at Dhaka EPZ (Export Processing Zone), Savar, Dhaka, Bangladesh. (2022)
* Studies on Coastal Environmental Conservation & Challenges, Cox s Bazaar, Bangladesh. (2019)
* DwrCymru Wastewater Treatment Facility, Cardiff, UK. (2017)
* Sustainable Energy Research Centre (SERC), University of South Wales, UK. (2017)
* 3D Seismic Survey Facilities of BAPEX, Narsinghdi, Bangladesh. (2016)
* Mobarakpur Gas Field of BAPEX, Pabna, Bangladesh. (2015)
* Geological field work; Bandarban (2015), Sylhet (2014), Kaptai (2013), Sitakund (2012), Bangladesh.

**Conference and Event:**

* GIS Day (2024), Oklahoma State Capitol, USA.
* World Environment Day (5th June) Events, Daffodil International University, Dhaka, Bangladesh. (2023, 2022, 2021, 2020)
* Bay of Bengal Conversation by Centre for Governance Studies, Dhaka, Bangladesh. (2022)
* ENVforum Annual Conference 2022 “SMEs Going Circular: Decarbonisation of Food Supply Chains” (Online) (2022)
* 21st Informal ASEM Seminar on Human Rights: "Human Rights & Climate Change" (Online) (2022)
* 23rd ASIA-EUROPE FOUNDATION Summer University Program (Served as Hackathon Team Leader) (Online) (2021)
* ‘Kolkata Conference’ of Centre for Non-Resident Bangladeshi, Calcutta, India (2019)
* 5th Annual Social Business Day of Yunus Centre, Dhaka, Bangladesh (2014)

**Scholarship and Award:**

* Award for Excellence in Teaching, Daffodil International University (2023)
* Next Generation Leaders Award by Global Youth Parliament (2022)
* Best Presenter Award on ‘Remote Sensing’ in Department of Geology, University of Dhaka. (2015)
* Scholarship for ‘Higher Secondary Certificate’ examination result from Dhaka Board. (2010)
* Best Debater Award at ‘Intra School-College Debate Competition’ at Rajendrapur Cantonment Public School and College. (2007)

**Membership:**

* Curriculum Committee Member, Bangladesh Open University (2023-Present)
* Society of Exploration Geophysists (SEG) (2017-Present)

**Skill:**

* Language - Bengali, English and Hindi.
* Software – LMS (Canvas, Blackboard, Moodle), MS Office, ArcGIS, Google Earth Pro, Python/R Programming Languages, Structured Query Language (SQL), G Suites etc.

**Countries Visited:**

United States, United Kingdom, Saudi Arabia, Turkey, Maldives, Singapore, Malaysia, Thailand, Nepal, and India.

**Profile Link:**

* Official Webpages -

<https://cas.okstate.edu/department_of_geography/about_us/graduate_students.html>

<https://faculty.daffodilvarsity.edu.bd/profile/esdm/sadril.html>

* ResearchGate - <https://www.researchgate.net/profile/Md-Sadril-Khan>
* Google Scholar - <https://scholar.google.com/citations?hl=en&user=I4flnygAAAAJ>
* Google Sites – <https://sites.google.com/diu.edu.bd/sadrilkhan/links>
* LinkedIn - [www.linkedin.com/in/sadril-khan-1101153](http://www.linkedin.com/in/sadril-khan-1101153)
* Facebook – <https://www.facebook.com/sadril.khan>
* YouTube - <https://www.youtube.com/channel/UCKOjbYKEEldCy525U28__4g>

**Reference:**

* **Dr. Yuting Zhou**

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