

# Najmun Nahar

PRESENT ADDRESS: DEPARTMENT OF GEOGRAPHY AND ENVIRONMENT, JAGANNATH UNIVERSITY, DHAKA-1100, BANGLADESH

TELEPHONE: 880-1916-388270

E-MAIL: najmun.nahar@geography.jnu.ac.bd or najmun\_nahar33@yahoo.com

## PERSONAL DETAILS

Date of Birth : 01 July 1983

Nationality : Bangladeshi

Religion : Islam

Marital Status : Married

Research Interests: Environmental Management, Environmental Engineering, Environmental Behavior, Disaster Management, GIS and Remote Sensing



## EDUCATIONAL QUALIFICATIONS

Name of Degree	Discipline	Board/University/Country	Passing Year/ Class/ Division
Doctor of Philosophy	Environmental Science and Technology	Mie University, Japan	Graduated in 2022
MS (Thesis)	Geography and Environment	University of Dhaka, Bangladesh	Graduated in 2006 (1 <sup>st</sup> Class)
B.Sc. (Hon's)	Geography and Environment	University of Dhaka, Bangladesh	Graduated in 2005 (1 <sup>st</sup> Class)
HSC	Science	Dhaka, Bangladesh	Graduated in 2000 (1 <sup>st</sup> division)
SSC	Science	Dhaka, Bangladesh	Graduated in 1998 (1 <sup>st</sup> Division*)

\* Indicates 75% and above marks obtained.

## PRESENT CAREER AND WORK EXPERIENCE

### Present Status

- **Associate Professor**, Department of Geography and Environment, Jagannath University, Dhaka-1100, Bangladesh (31 January 2023 to Date).

### Work Experience

- **Assistant Professor**, Department of Geography and Environment (29 September 2014 to 30 January 2023), Jagannath University, Dhaka-1100, Bangladesh.
- **Lecturer**, Department of Geography and Environment (28 July 2011 to 28 September 2014), Jagannath University, Dhaka-1100, Bangladesh

- **Junior Technical Staff and Short-term Consultant** at the Centre for Environmental and Geographic Information Services (A Public Trust under the Ministry of Water Resources in Bangladesh) from November 2008 to June 2009. Highlighted responsibilities were-
  1. Data capturing from geo-referenced digital maps,
  2. Processing and Editing spatial and attribute data using different GIS software (ARC View and ArcGIS),
  3. Convert GIS data into different projection systems, and
  4. Produce different thematic maps using the lowest administrative boundary data in Bangladesh.

## **TEACHING RESPONSIBILITIES**

### **Teach Undergraduate Courses**

Introduction to Physical Geography and Environment

Elements of Cartography

Introduction to Field Study

Introduction to Computer Application

Fundamentals of Climatology

Environmental Analysis

Environmental Management

Environmental Impact Assessment

Geographic Information System

### **Teach Master's Courses**

Advanced Environmental Impact Assessment,

Environmental Law and Ethics,

Environmental Pollution Study

## **RESEARCH SUPERVISION**

### **Principal Investigator of Research Project**

Worked as a principal investigator of a research project entitled "*People's Perception and Attitude of Environmental Pollution and its impact in Dhaka City*" funded by the University Grants Commission of Bangladesh and Jagannath University (UGC-JnU Project, 2017-18), Bangladesh.

### **Supervision of Thesis (Masters Level)**

1. Fire Risk Assessment and Evacuation Plan Using GIS Technique: A Case Study of Sakharibazar
2. Assessment of Environmental Pollution and Public Health: A Study of Hazaribag Thana
3. Wetland Loss and Its Socio-Economic Effects at Katiadi Upazilla in Kishoreganj District

### **Supervision of Dissertation (Undergraduate and Masters Level)**

1. Assessment of Vulnerability and Coping Strategies of Flood in Gaibandha District: A Case Study of Fulchori Thana

2. Urban Environmental Impact Assessment: A Case Study of Dhaka City
3. Solar Home System and Its Socio-economic Impacts on Off-Grid Areas in Amtali Upazila
4. Assessment of Vulnerability and People's Awareness of Cyclone: A Study of Char Kukri Mukri Union
5. Building Vulnerability and People's Awareness of Earthquake: A Case Study of katasur Mauza
6. Assessment of Environmental Impact of Ghorashal Urea Fertilizer Factory in Narsingdi District
7. Nuclear Power Plant and Awareness of Local People at Ruppur Upazila in Pabna District
8. Medical Waste Management in Dhaka City: A Study on Shahbag Thana
9. Teesta Barrage Project and Socio-economic Change: A Case Study of Doani Mauza
10. Structure, Management and Services of Water Supply of DWASA: A Study of Dhaka City
11. Role of Mineral Resources of Northern Region in Industrial and Economic Development of Bangladesh
12. The State of Uses of Plastic Products and Public Awareness in Dhaka City Corporation
13. Earthquake Preparedness and Awareness: A study on Ward No.4 in Narayanganj Municipality
14. Living Condition of Female students of Jagannath University in Rooming Houses: A study on Dhaka city
15. Human Health and Socio-economic Impacts of Arsenic Contamination in Ground Water: A Study on Kachua Upazila in Chandpur District
16. Water Quality Assessment of Dhanmondi Lake
17. Risk Assessment of Fire Hazard at Garments Industry in Mirpur Zone
18. Impacts of Flash Flood on Women and Coping Strategies in Haor Areas of Bangladesh
19. Assessment of Physical and Social Vulnerability of Earthquake Liquefaction at Low-lying Areas in Dhaka City
20. Pollution Level and Working Environment in Rice Mills of Netrokona District, Bangladesh

## RESEARCH ACHIEVEMENTS

### *Original Articles (Peer-reviewed Journal only)*

1. **\*Nahar, N.**, S. K. Khan, A. O. Owino, & Z. Hossain. (2023). Shear behavior of treated soil by rice husk ash and cement. *Agricultural Engineering International: CIGR Journal*, 25(3): 22-30. Available at: <https://cigrjournal.org/index.php/Ejournal/article/view/8489>
2. **\*Nahar, N.**, Owino, A. O., & Hossain, Z. (2022). Influence of the initial setting of cement on the shear strength of rice husk ash stabilised soil. *Journal of Agricultural Engineering*, 53(4). Available at: <https://doi.org/10.4081/jae.2022.1411>
3. **\*Nahar, N.**, Hossain, Z., & Mahiuddin, S. (2022). Assessment of the environmental perceptions, attitudes, and awareness of city dwellers regarding sustainable urban environmental management: a case study of Dhaka, Bangladesh. *Environment, Development and Sustainability*, 1-29. Available at: <https://doi.org/10.1007/s10668-022-02354-y>
4. Owino, A. O., **Nahar, N.**, Hossain, Z., & Tamaki, N. (2022). Dimensional influence of basalt fiber reinforcements on the consolidation behaviour of rice husk ash stabilized soils. *Construction and Building Materials*, 339, 127686. Available at: <https://doi.org/10.1016/j.conbuildmat.2022.127686>
5. Owino, A. O., **Nahar, N.**, Hossain, Z., & Tamaki, N. (2022). Effects of basalt fibres on strength and permeability of rice husk ash-treated expansive soils. *Journal of Agricultural Engineering*, 53(1). Available at: <https://doi.org/10.4081/jae.2022.1315>
6. **\*Nahar, N.**, Owino, A. O., Khan, S. K., Hossain, Z., & Tamaki, N. (2021). Effects of controlled burn rice husk ash on

geotechnical properties of the soil. Journal of Agricultural Engineering, 52(4). Available at: <https://doi.org/10.4081/jae.2021.1216>

7. \***Nahar, N.**, Islam, S., & Mahiuddin, S. (2021). Flash Flood impacts on the life and livelihood of women at haor areas in Bangladesh. National Geographical Journal of India, 67(3), 322-333. Available at: <https://ngji.in/index.php/ngji/article/view/144>
8. \***Nahar, N.**, Hossain, Z. & Tamaki, N. (2021). Optimum utilization of rice husk ash waste for ground improvement. International Agricultural Engineering Journal, 2021, 30(1): 1-10. Available at: <http://www.iaej.cn/EN/abstract/abstract1303.shtml>
9. \***Nahar, N.**, Mahiuddin, S. & Hossain, Z. (2021). The severity of environmental pollution in the developing countries and its remedial measures, Earth, 2(1):124-139. Available at: <https://doi.org/10.3390/earth2010008>
10. **Nahar, N.**, Sultana, N. & Miah, J. (2018). Seasonal land cover changes and its effects on essential services of haor and non-haor areas of Kishoreganj district, Bangladesh, Asia-Pacific Journal of Regional Science, 2: 399-429. Available at: <https://doi.org/10.1007/s41685-017-0067-8>
11. \***Nahar, N.**, Sultana, N., Uddin, M.A., Sultana, S. & Mahmood, R. (2017). Degradation of River Water Quality and Its Effects on Livelihood in Narsingdi Industrial Area, Bangladesh, Rajshahi University Journal of Environmental Science, 6: 118-127. Available at: <https://www.ru.ac.bd/ies/wp-content/uploads/sites/59/2022/07/Journal-06-2017.pdf>
12. \***Nahar, N.** & Sultana, R. (2017). Usages of plastic products and environmental awareness of the residents in Dhaka City, Jagannath University Journal of Life and Earth Sciences, 3(2): 105-111. Available at: <https://www.researchgate.net/publication/328997767>
13. \***Nahar, N.**, Mahmood, R. & Lithe, D.R. (2016). Fire hazard vulnerability issues in readymade garment industries in Mirpur zone, Dhaka, Jagannath University Journal of Life and Earth Sciences, 2(2):133-139. Available at: <https://www.researchgate.net/publication/323414773>
14. \***Nahar, N.**, Hossain, M. & Khan, M. G. A. (2015). Causes of River Bank Erosion, Its Effects on Life and Livelihood and Nature of Aids: A Case Study on Habashpur Union, in Bengali, The Journal of Geo-Environment, 12: 85-98. Available at: <https://www.researchgate.net/publication/328998725>
15. \***Nahar, N.** (2013). State of Possible Earthquake Preparedness at Educational Institutions in Dhaka City, Stamford Journal of Environment and Human Habitat, 2: 112-124. Available at: <https://www.researchgate.net/publication/328997866>
16. \***Nahar, N.**, (2010). Preparedness for Protecting from Fire Hazard: A Case Study on Educational Institutions in Dhaka City, in Bengali, Bhugal Patrika, 29: 95-108. Available at: <https://www.researchgate.net/publication/329012317>

#### **Proceedings (Peer reviewed Articles only)**

1. \***Nahar, N.**, Khan, S. K., Owino, A. O., Hossain, Z. and Tamaki, N. (2021). Influence of rice husk ash with minimal dosage of cement on shear strength and microstructure of soil, Proceedings of 11th International Conference on Geotechnique, Construction Materials and Environment, Kyoto, Japan, 3-5 November 2021, pp. 273-278.
2. Owino, A. O., **Nahar, N.**, Khan, S. K., Hossain, Z. and Tamaki, N. (2021). Effects of basalt fiber on strength and permeability of RHA treated expansive soils, Proceedings of 11th International Conference on Geotechnique, Construction Materials and Environment, Kyoto, Japan, 3-5 November 2021, pp. 279-287.

3. Khan, S. K., **Nahar, N.**, Owino, A. O., Hossain, Z. and Tamaki, N. (2021). Strength and microstructure development of rice husk ash with cement stabilized soil, Proceedings of 8th International Conference on Structure, Engineering and Environment (SEE), Kyoto, Japan, Nov.18-20, 2021, pp. 458-463.
4. Khan, S. K., **Nahar, N.**, Hossain, Z. and Tamaki, N. (2020). Influence of Rice Husk Ash Waste on Compactability of Soil, Proceedings of 7th International Conference on Structure, Engineering and Environment (SEE), Kyoto, Japan, Nov.18-20, 2020, pp. 353-357.
5. Ovia, J. U., **Nahar, N.**, Owino, A. O., Tamaki, N. and Hossain, Z. (2020). Improvement of Soil Strength Using Rice Husk Ash, Proceedings of 10th International Conference on Geotechnique, Construction Materials and Environment, Melbourne, Australia, 11-13 November 2020, pp. 706-709.
6. **\*Nahar, N.**, Hossain, Z. and Tamaki, N. (2020). Optimum Utilization of Rice Husk Ash Waste for Ground Improvement, Proceedings of 10th International Conference on Geotechnique, Construction Materials and Environment, Melbourne, Australia, 11-13 November 2020, pp. 339-344.
7. **\*Nahar, N.**, Hossain, Z. and Mahiuddin, S. (2019). People's Perception and Attitude to Environmental Pollution and Its Impacts on Dhaka City, Bangladesh, 9th International Conference on Geotechnique, Construction Materials, and Environment, Tokyo, Japan, 20-22 November 2019, pp. 1218-1224.
8. Sarker, M.H., and **Nahar, N.** (2010). Assessment of Earthquake Vulnerability and Preparedness Status at Educational Institutions in Dhaka City, Proceedings of the 3rd International Earthquake Symposium, Bangladesh, 5-6 March, 2010, BUET, Dhaka, Bangladesh, Organized by Department of Civil Engineering and Technology, BUET, Dhaka, Bangladesh and Bangladesh Earthquake Society, pp. 231-237.

#### **Conference Abstract**

1. Mahiuddin, S. and **\*Nahar, N.**, (2019). Environmental Pollution and Its Impacts on Public Health in Dhaka City, Bangladesh, Conference on Environmental Solutions for Sustainable Development: Towards Developed Bangladesh, 27-28 November 2019, CIRDAP, Dhaka, Organized by Forest and Environment Affairs Sub-Committee Bangladesh Awami League, pp. 212.
2. Najia, S.I., Akhter, H. and **Nahar, N.** (2012). State of Tea Garden Workers: A Case Study of Two Tea Gardens in Sylhet, Bangladesh, paper presented at the International Conference on Exploring Sub-Regional Cooperation in the Context of India-Bangladesh Relation: Society, History, Science and Culture, 22-24 January 2012, Organized by Assam University, Silchar, India, pp. 27.

#### **Oral Presentation**

1. Paper presented at 11th International Conference on Geotechnique, Construction Materials and Environment, Kyoto, Japan, 3-5 November 2021
2. Paper presented in 8th International Conference on Structure, Engineering and Environment (SEE), Kyoto, Japan, Nov.18-20, 2021
3. Paper presented at 10th International Conference on Geotechnique, Construction Materials, and Environment, Melbourne, Australia, 11-13 November 2020
4. Paper presented at 9th International Conference on Geotechnique, Construction Materials, and Environment, Tokyo, Japan, 20-22 November 2019
5. Paper presented in 3rd International Earthquake Symposium, Bangladesh, 5-6 March 2010, BUET, Dhaka, Bangladesh

## HONOUR AND GRANT AWARDED

- Received the research fund from the University Grants Commission and Jagannath University (UGC-JnU Project, 2017-2018) of Bangladesh (Grant No. 131/2011/1540) for the project titled “*People’s Perception and Attitude of Environmental Pollution and its Impact on Dhaka City*”
- Awarded Japanese Government (MEXT) scholarships from 2018-2022 for pursuing a Ph.D. degree
- Achieved *Best Paper Award* for the research paper entitled “*Effects of basalt fiber on strength and permeability of RHA treated expansive soils*”, 11th International Conference on Geotechnique, Construction Materials, and Environment, Kyoto, Japan, 3-5 November 2021, pp. 279-287
- Achieved *Best Paper Award* for the research paper entitled “*People’s Perception and Attitude to Environmental Pollution and Its Impacts on Dhaka City, Bangladesh*”, 9th International Conference on Geotechnique, Construction Materials, and Environment, Tokyo, Japan, 20-22 November 2019.

## MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Member, Japanese Geotechnical Society (JGS), member ID (2100039), Japan
- Life Member, Bangladesh Geographical Society (BGS), Bangladesh
- Central Advisor, *BADHAN* (A Voluntary Blood Donor’s Organization), University of Dhaka, Bangladesh
- Student advisor, *BADHAN* (A Voluntary Blood Donor’s Organization), Jagannath University, Bangladesh

## TRAINING AND WORKSHOP

- Training program on **Research Software: SPSS, STATA, NVivo & PLS** organized and sponsored by the Sub-project titled “Modernizing marketing Department, Jagannath University through Teachers-Students Innovation & Digitalization Program” (TSIDP) and Higher Education Quality Enhancement Project (HEQEP), University Grants Commission of Bangladesh, funded by the World Bank, from 03-19 May, 2016.
- Training course on **Research Methodology** organized by *Itehas* Academy from 13- 14 May 2011 held at NAEM, Dhaka.
- Workshop on **Disaster Risk Management in Bangladesh** Organized by the Advocacy Programme under Comprehensive Disaster Management Programme (CDMP), held at BCS (Admin) Academy, Dhaka on 28<sup>th</sup> June 2005.
- Training programme on **Cyclone Disaster Risk Reduction and Management in the Light of Indigenous Knowledge and Innovative Ideas** Organized by Disaster Research Training and Management Centre (DRTMC), University of Dhaka from May to June 2005.
- Training course on **Basic Computer Operation (MS DOS & Windows 98, MS Word, Excel, Access & Power Point)** organized by GIS lab, Dept. of Geography and Environment, University of Dhaka from 25 July to 26 October 2003.

## EXTRA- CURRICULUM ACTIVITIES

- Working as an **Assistant Proctor** at Jagannath University from 21 September 2016 to 15 September 2018.

- Working as a **Ranger Guider** of the Ranger Unit of Jagannath University under the Bangladesh Girl Guides Association from 31 October 2011 to 15 September 2018.
- **Member** of an Indoor Games Convening Committee in 2016-2017 of Jagannath University, Dhaka-1100, Bangladesh.
- **Member** in Literature and Cultural Standing Committee, 2012 Jagannath University.
- As an **active cadet** of Bangladesh National Cadet Core (BNCC), I achieved a *Senior Certificate in Military Science*.
- Completed **Ranger Guider Training** organized by Bangladesh Girl Guides Association, from 26 February to 01 March 2012, held at Guide House, Dhaka.
- Completed **Gold Training Session** in 2006 trained by Girl Guiding UK and organized by Bangladesh Girl Guides Association, held at Rokeya Hall, University of Dhaka.
- Completed **Halde Pakhi Guider Course** organized by Bangladesh Girl Guides Association, from 26 November to 30 November 2005 held at Rokeya Hall, University of Dhaka.
- Completed Follow-up training on **Long Term Election Observation for JANIPOP Volunteers** organized by *Jatiya Nirbachan Parjabekhan Parishad*, 7 November 2006 at Dhaka.

## REFERENCES

### Dr. Zakaria Hossain

Professor,  
Department of Environmental Science and Technology,  
Faculty of Bioresources,  
Mie University, Japan  
Phone: +81-90-3581-7436  
Email: zakaria@bio.mie-u.ac.jp

### Prof. Dr. A Q M Mahbub

Former Professor,  
Department of Geography and Environment  
Faculty of Earth and Environmental Science  
University of Dhaka, Bangladesh  
Phone: 880-1716-581694  
Email: aqmahbub@yahoo.com

I certify that all information stated in this CV is true and complete to the best of my knowledge. I authorize the authority to verify the information provided in this CV.

(Najmun Nahar)

Najmun Nahar