

ANISUR RAHMAN BAYAZID

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EDUCATION

Institute Of Water and Flood Management (IWFM), Bangladesh University of Engineering and Technology

MSC IN WATER RESOURCES DEVELOPMENT

(Jun 2019 – Ongoing)

- Currently completing MSc. thesis (Thesis title: Ecosystem Services Assessment of Belai Beel, Gazipur)
- Courses: Advanced Watershed Hydrology; Water Disaster Management; Integrated Water Resources Management; Water, Gender and Society; Water and Ecosystem; Climate Change Risk Management
- CGPA: 3.10/4.00

Shahjalal University of Science and Technology, Sylhet

BSC IN GEOGRAPHY AND ENVIRONMENT

(Apr 2014 - Mar 2019)

- BSc. thesis project title: An Assessment of Ecological Threat in the Wetlands of Bangladesh: A Case Study at Hakaluki Haor, Moulvibazar
- CGPA: 3.57/4.00

STANDARDIZED TEST SCORE

IELTS Band Score: 8.0

(Listening: 9.0 | Reading: 9.0 | Writing: 6.5 | Speaking: 6.5)

WORK EXPERIENCE

BRAC James P Grant School of Public Health, BRAC University, Dhaka

Senior Research Associate

(Apr 2025 – Ongoing)

- One journal article has been accepted (joint first author)
- 5 journal articles are currently under review (one as the first author)
- Leading research study titled “Health Vulnerability from Heat Waves”
- Analysing qualitative transcripts
- Preparing a Heat Vulnerability Index for Dhaka city using QGIS, Google Earth Engine, and R
- Contributing in land use regression modelling for air and noise pollution

Research Associate

(Dec 2023 – Mar 2025)

- Submitted 5 research grant proposals, of them 2 has been awarded (as Co-PI)
- 4 journal articles under review, one as a joint first author
- 4 conference proceedings (Oral and poster presentation combined) has been accepted
- Prepared 5 policy briefs
- Supervised 3 research assistants
- Mentored 5 MPH students for Summative Learning Project (Graduate research)
- Arranged project dissemination seminar with high level government, non-government, and academic stakeholders
- Led multiple projects simultaneously including air and noise monitoring, and health vulnerability from heat waves
- Conducted qualitative data collection (9 FGDs, 10 KIIs)

Senior Research Assistant

(Dec 2022 – Nov 2023)

- One conference proceedings has been accepted
- Contributed in 2 grant proposals

- Supervised 14 field research assistants for quantitative and qualitative data collection
- Developed ODK for Kobo Toolbox
- Arranged co-production workshops and school programs
- Collected environmental data (air pollution – gravimetric and real time, noise pollution, temperature) from 70 locations across Dhaka city by engaging communities, local governments, government and non-government offices
- Worked simultaneously in multiple projects including Ambient light and health, Air Pollution and Noise Monitoring, and Use, access, and barriers in Bicycling in Dhaka

Research Assistant

(Nov 2021 – Nov 2022)

- One journal article has been published
- One conference proceeding has been accepted
- Developed ODK for Kobo Toolbox
- Conducted questionnaire surveys, IDIs, KIIs, and FGDs
- Worked simultaneously in multiple projects including child labour related to waste management, cost analysis of an ECD program, and Ambient light and health.
- Been a teaching fellow for the MPH module “Environment, Health and Climate Change”

REACH Project, IWFM, BUET, Dhaka

Research Associate

(Jan 2021 – Aug 2022)

- Environmental data collection (Water and soil sample)
- Laboratory testing of water and soil samples
- Collecting and scrutinizing secondary data
- Writing reports

SUST Research Centre, SUST, Sylhet

Research Assistant (Undergraduate)

(Jul 2017 – Jul 2018)

- Prepared complete research grant proposal and has been awarded
- Developed research methodology
- Time series data collection and analysis
- Preparing report and dissemination presentation

RESEARCH GRANTS

1. SANDEE Winter Grant 2024 (Co-PI). Grant Amount: 20100 USD
2. CHORUS Innovation Fund 2024 (Co-PI). Grant Amount 19999 GBP
3. SUST Research Centre Research Grant 2017 (RA). Grant Amount 143500 BDT

JOURNAL PUBLICATIONS

1. Lee, M., **Bayazid, A. R.**, Rosenthal, L., Khan, R. H., Carter, E., Arku, R., Barratt, B., Quayyum, Z., & Baumgartner, J. (2024) Spatiotemporal patterns and relationships of air pollution and sound levels in the megacity of Dhaka, Bangladesh. *Nature Scientific Reports*. (Accepted)
2. Sara, H. H., **Bayazid, A. R.**, & Quayyum, Z. (2022). Occupational Health Sufferings of Child Waste Workers in South Asia: A Scoping Review. *International Journal of Environmental Research and Public Health*, 19(14), 8628. <https://doi.org/10.3390/ijerph19148628>
3. **Bayazid, Anisur Rahman**; Khan, Riaz Hossain; Quayyum, Zahidul; Ahmmed, Md. Hasnain; & Siqueira, Noemia. (2025) Urban Heat Exposure and Land Use Dynamics in Dhaka: A Spatial Analysis. *City and Environment Interactions*. Available at SSRN: <http://dx.doi.org/10.2139/ssrn.5344065> (Under Review)
4. Khan, Riaz Hossain; **Bayazid, Anisur Rahman**; & Quayyum, Zahidul. (2025) Meander Bars, Potential Routes of Recharge and Contaminant Transport in Groundwater Resources: Evidence from a Landfill in Savar, Bangladesh. *Journal of Hydrology: Regional Studies*. Available at SSRN: <http://dx.doi.org/10.2139/ssrn.5352300> (Under Review)

5. Selim, N., Anonna, T. A., **Bayazid, A.R.**, Hasan, Kamrul, Quayyum, Z. (2025). Conspiring Elements in Collaboration: Problematizing Toxic Air, Wastelands, and Breathing Infrastructures in Dhaka, Bangladesh. *Social Anthropology/Anthropologie sociale* (Under review)
6. Bishwas, M. S., Sehrin, F., **Bayazid, A. R.**, Sara, H. H., & Quayyum, Z. (2024). Assessing the Factors Associated with the Respiratory Health of Children Working in Waste Management Activities: A Cross-Sectional Observational Study in Dhaka, Bangladesh. *BMC Public Health* (Under review)
7. Smruthi Bala Kannan, Rahul Goel, Ernest Agyemang, Zahidul Quayyum, Srishti Agrawal; **Anisur Rahman Bayazid**; Jonathan Anjaria, Kavi Bhalla. (2024). The status and politics of bicycling in the cities of low- and middle-income countries. *Nature Cities* (Under review)

CONFERENCE PROCEEDINGS

1. **Anisur Rahman Bayazid**, Riaz H. Khan, Baby Naznin, Zahidul Quayyum. (2024) Health vulnerability from heat waves, adaptation, and solutions in Dhaka city using validation through ground truthing of satellite imageries and qualitative insights: a study protocol. HSR2024, The 8th Global Symposium on Health Systems Research (Oral Presentation)
2. **Anisur Rahman Bayazid**, Riaz H. Khan, Baby Naznin, Zahidul Quayyum. (2024) Health vulnerability from heat waves, adaptation, and solutions in Dhaka city using validation through ground truthing of satellite imageries and qualitative insights: a study protocol. 20th annual International Conference on Urban Health (ICUH 2024). (Poster Presentation)
3. Smruthi Bala Kannan, Rahul Goel, Jonathan Shapiro Anjaria, Srishti Agrawal, **Anisur Rahman Bayazid**, Shivani, Joel Shelton Terrance, Mehul Gupta, Rohit M, Ankush Pal, Ernest Agyemang, Zahidul Quayyum, Kavi Bhalla (2024). How do we research bicycling? Mixed-methods for bicycling research in LMIC cities. Spatial Methods for Urban Sustainability (SMUS Conference) 2024
4. Khan, R. H., **Bayazid, A. R.**, Lee, M., Hasan, M. K., Anonna, T. A., Rosenthal, L., ... & Baumgartner, J. (2024). City-wide measurement of outdoor PM_{2.5} and black carbon to support evidence-based environmental policy in Dhaka, Bangladesh (No. EGU24-138). Copernicus Meetings.
5. Ahmed, S.T., **Bayazid, A.R.**, Akter, R., Khan, R.H., Quayyum, Z., Rodriguez, J.I., Adamkiewicz, G. (2023). Community and stakeholders' perceptions about poor ambient lighting in Dhaka City. 19th International Conference on Urban Health (ICUH)
6. Sara, H. H., **Bayazid, A. R.**, & Quayyum, Z. (2022). Informal child labor in Dhaka City: Exploring the pull factors and health sufferings of children involved in waste management. RTA-HTRI Conference. <https://rtaconference.org/session/informal-child-labor-in-dhaka-city-exploring-the-pull-factors-and-health-sufferings-of-children-involved-in-waste-management/>

SELECTED WORKS IN PROGRESS

1. Urban heat dynamics of Dhaka, which aims to present the heat condition of Dhaka using both primary and secondary temperature data
2. Health risks from extreme Heat and adaptation process, a qualitative research
3. Land use regression on Air and noise pollution

ADDITIONAL TRAINING AND COURSES

1. CHORUS Qualitative Analysis Workshop at Dhaka 2025. Organized by CHORUS Urban Health.
2. Introduction to R. Organized by Centre for Professional Skills Development, BRAC James P Grant School of Public Health, BRAC University at 2024.
3. Regional Writing Workshop at Nepal 2024. Organized by CHORUS Urban Health.
4. Quasi-experimental Methods for Policy Evaluation at 2022. Organized by CHORUS Urban Health.

VOLUNTEERING EXPERIENCE

Nature Study Society of Bangladesh	
Lifetime Member	(Jul 2013 – Ongoing)
Copernicus Astronomical Memorial of SUST, Shahjalal University of Science and Technology, Sylhet	
Vice President	(Jan 2018 – Jan 2019)
General Secretary	(Jan 2016 – Jan 2018)
Riverine People	
Volunteer	(2016 – 2019)
Notre Dame Nature Study Club, Notre Dame College, Dhaka	
Vice President (Publication)	(Jul 2012 – Jul 2013)

RESEARCH AND TECHNICAL SKILLS

- Collecting primary data (environmental monitoring, quantitative, qualitative)
- Laboratory testing of water and soil samples
- Analysing quantitative data using STATA and R
- Analysing spatial data using QGIS, ArcGIS, and Google Earth Engine
- Analysing qualitative data using Nvivo and Dedoose
- Literature review and scoping review
- Writing research grant proposals
- Research project monitoring and report writing