Anika Nawer Meem

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EDUCATION

University of British Columbia (UBC)

PhD. in Civil Engineering *September 2024-Present*

Significant Courses: Momentum, Heat and Mass Transfer, Environmental Data Collection and Analysis, Physical and Chemical Treatment Processes, Membrane-based Desalination and Chemical Separations, Water and Sanitation in Low Resource Contexts, Environmental Biotechnology
Cumulative Average: 93.8

Bangladesh University of Engineering and Technology (BUET)

BSc. in Civil Engineering *February 2017-May 2022*

Significant Courses: Project Planning and Construction Management, Introduction to Steel-Concrete Composite Structures, Elementary Soil Dynamics, Dynamics of Structures, Foundation Engineering Fluid Mechanics, Open Channel Flow, Hydrology, Irrigation and Flood Management, Earth Retaining Structure, Concrete Structure Design I & II, Structural Analysis and Design I & II, Environmental Engineering I & II
CGPA: 3.51/4.00

TEACHING EXPERIENCE

University of British Columbia (UBC)

Teaching Assistant, Department of Civil Engineering *September 2024-Present*

Courses: Engineering and Sustainable Development (CIVL 250): 92 hours (2024-25 W), 44 hours (2024-2025 Summer), 90 hours (2025-2026 W)**;** Fluid Mechanics I (CIVL 215)- 80 hours (2024-2025 W), 86 hours (2025-2026 W)

Stamford University, Bangladesh

Lecturer, Department of Civil Engineering *February 2023-July 2023*

Courses: Foundation Engineering, Fluid Mechanics, Open Channel Flow, Hydrology, Irrigation and Flood Management, Environmental Engineering I & II
Additional Responsibilities: Member of Question Moderation Committee, Thesis Defense Monitoring Committee, Course Distribution and Routine Committee

RESEARCH EXPERIENCE

University of British Columbia (UBC)

Research Assistant, Department of Civil Engineering *September 2024-Present*

- Working on a research project on the development of tree-mimicking building panels for fast dewatering and passive surface cooling

Department of Civil Engineering, BUET

Evaluation of Compressive Load Capacity of Bored Piles *March 2021 –May 2022*

- Solely worked on a project where the ultimate capacity of piles from a field load test was calculated and compared with the ultimate capacity using BNBC 2020 and AASHTO LRFD Bridge Design Specifications 8th Ed. 2017

Publications

- Compressive Load Capacity of Bored Piles Based on Field Tests Compared to Theoretical and Empirical Methods (Presented at ICCESD 2024)

SOFTWARE SKILLS

- Auto CAD
- ETABS
- MS Office (Excel, Word, PowerPoint)
- MATLAB
- SAP 2000

EXTRA-CURRICULAR ACTIVITIES

BC Water & Waste Association (BCWWA)-Student Chapter
Treasurer *September 2025-Present*

Managed financial planning and budgeting for the annual Water & Environment Student Talks (WEST-2026) conference and related departmental activities. Oversaw fund allocation, tracked expenses, and processed reimbursements to ensure accurate and transparent financial operations. Coordinated with sponsors, student organizations, and university bodies to secure and manage funding, while maintaining compliance with UBC financial policies.

UBC Graduate Student Society (GSS)
Member, Human Resources Committee *September 2024-Present*

The Graduate Student Society of UBC Vancouver represents and advocates on behalf of all UBC Graduate Students to the University, the Government, and the public. They provide academic, professional, social, and recreational services to their members, and act as stewards of the Thea Koerner House Graduate Student Centre.

REFERENCES

1. **Dr. Jongho Lee**
   Associate Professor,
   Department of Civil Engineering, UBC
   Email:jongho.lee@civil.ubc.ca

2. **Dr. Md Ferdous Alam**
   Assistant Professor,
   Department of Civil Engineering, BUET
   Email**:** ferdous@ce.buet.ac.bd