Chowdhury Mohammad Abdullah

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Education

Dalhousie University — NS, Canada
Master of Computer Science; CGPA: 4.30/4.30 (Coursework completed) — *Jan 2025 – Dec 2026 (exp.)*
Thesis Supervisor: Dr. Rita Orji

Islamic University of Technology — Gazipur, Bangladesh
B. Sc. in Computer Science & Engineering; CGPA: 3.85/4.00 — *Jan 2019 – May 2023*
First-class with honours distinction

Publications

[1] **From a River in Gilead to the Inference Distributions of Large Language Models: Covert Dialect Bias and Linguistic Profiling at Scale**
Proceedings of the 9th AAAI/ACM Conference on AI, Ethics, and Society (AIES), vol. 9, no. 1, pp.60-71, 2026
Abdullah, C.M. and Orji, R. [**Best Paper Award, Travel Grant**]

[2] **Blockchain Integration in VANETs: Challenges and Research Frontiers in Security and Trust**
Vehicular Communications, p.101015, 2026
Abdullah, C.M., Shaiara, F., Arifin, S., Bappy, F.H., Hasan, R. and Islam, T.

[3] **Blockchain-Based Pension System Ensuring Security, Provenance and Efficiency**
IEICE Transactions on Information and Systems, vol. 106, no. 5, pp.1085-1088, 2023
Kamal, M., **Abdullah, C.M.**, Shaiara, F., Kamal, A.R.M., Hasan, M.M., Kim, J.S. and Hossain, M.A.

[4] **BloodComm: A Peer-to-Peer Blockchain-based Community for Blood Donation Network**
25th International Conference on Computer and Information Technology (ICCIT), pp.218-223, IEEE, 2022
Abdullah, C.M., Kamal, M., Shaiara, F., Kamal, A.R.M. and Hossain, M.A. [**Travel Grant**]

[5] **Huruf: An Application for Arabic Handwritten Character Recognition Using Deep Learning**
25th International Conference on Computer and Information Technology (ICCIT), pp.1131-1136, IEEE, 2022
Kamal, M., Shaiara, F., **Abdullah, C.M.**, Ahmed, S., Ahmed, T. and Kabir, M.H.

Awards & Scholarships

[1] **FGS Travel Grant**, Dalhousie University — Sep 2026
Awarded to graduate students for research-related travel.

[2] **Bangladesh Sweden Trust Fund Travel Grant** — Feb 2026
Awarded to high-achieving Bangladeshi students for overseas graduate studies.

[3] **Nova Scotia Graduate Scholarship (Master's)** | *CAD $20,000* — May 2025 – Apr 2027
Awarded for research excellence and innovation in fields prioritized by Nova Scotia.

[4] **NSERC CREATE Cybersecurity Fellowship**, Dalhousie University | *CAD $27,000* — Jan 2025 – Dec 2026
Competitive funding supporting research on security and privacy in emerging AI technologies.

[5] **Departmental Research Scholarship**, Dalhousie University | *CAD ∼$16,000* — Jan 2025 – Aug 2026
Merit-based institutional graduate funding for tuition and living stipends.

[6] **Conference Travel Grant**, Islamic University of Technology — Sep 2022
Competitive grant awarded to attend and present research at IEEE ICCIT 2022.

[7] **OIC Partial Scholarship** | *USD ∼$18,000* — Jan 2019 – May 2023
Merit-based undergraduate scholarship covering international tuition, housing, and stipend.

[8] **National High School Merit Scholarship** | *Stipend* — Jul 2017 – Jun 2018
Awarded by the Ministry of Education, Bangladesh for outstanding performance in national board exams.

Media Coverage & Invited Talks

[1] **Invited Talk: "We Do Not Want You Here: How AI Systems Inherit Human Prejudice Against Speech Variation"**, DIS Public Lecture Series, Dalhousie University Oct 2026
Co-presented with Philippe Mongeon; Deloitte Greenhouse, Kenneth C. Rowe Management Building.

[2] **Invited Interview**, AIhub.org 2026 (forthcoming)
Invited by Dr. Lucy Smith (Senior Managing Editor, AIhub.org) to discuss dialect bias research presented at AIES 2026.

Ongoing Research Projects

Covert Dialect Bias in LLMs and Contextual Integrity Violation — *Master's Thesis*
- Auditing covert dialect prejudice in housing decisions via computational matched-guise methods; characterized as a contextual integrity violation. *Supervisor: Dr. Rita Orji*

Narrlytics: Narrative-Aware News Recommendation Systems
- Operationalizing Greimas' Actantial Model with GATs for role-stratified, explainable news recommendation on the MIND benchmark. *Collaborator: Dr. Ga Wu (Dalhousie, ex-Twitter ML Engineer)*

Persuasive Conversational Interface for Mindful GenAI Usage
- Engineered a browser-based conversational interface utilizing cognitive forcing functions to mitigate cognitive offloading in graduate research (SUS: 87.9/100).*Collaborators: Dr. Oyebode and Kingsley (Dalhousie)*

AI Readiness and Institutional Adaptation in Bangladeshi Academia
- Investigating curricular alignment, faculty preparedness, and systemic bottlenecks regarding generative AI integration across higher education in Bangladesh. *Collaborators: Kulsum and Obaidullah (They are my siblings!)*

Sociotechnical Security and Privacy in VANETs
- Developing blockchain-based trust management and privacy-preserving authentication schemes for vehicular networks. *Collaborators: Dr. Islam (Asst. Prof, University of Maryland, Baltimore County)*

Experience

Teaching Assistant & Marker Halifax, Canada
Dalhousie University *Jan 2025 – Present*
- CSCI 1110 - Introduction to Computer Science (Winter'25): class size 26; Instr: Dr. Tang, and Dr. Oyebode
- CSCI 3163 - Inclusive Computing (Fall'25, Fall'26): class size 35; Instr: Dr. Sampangi
- CSCI 4169 - Usable Security and Privacy (Winter'26): class size 55; Instr: Dr. Sampangi
- CSCI 4163/6610 - Human-Computer Interaction (Fall'25): class size 59; Instr: Dr. Blustien

Research Assistant Halifax, Canada
Persuasive Computing Lab, Dalhousie University *Jan 2025 – Present*
- Conducting research on human-AI interactions and persuasive fitness applications
- Supporting user studies, maintaining lab equipment for ongoing research projects

Lecturer Chattogram, Bangladesh
Bangladesh Military Academy *June 2023 – Dec 2024*
- CSE 203, 204 - Data Structures Theory & Sessionals
- CSE 205, 206 - Object Oriented Programming Language Theory & Sessionals
- CSE 213 - Computer Architecture
- CSE 274 - Numerical Methods Sessionals

Lecturer (Adjunct) Chattogram, Bangladesh
International Islamic University Chittagong *June 2023 – Dec 2024*
- CSE 2301 - Object Oriented Programming
- CSE 2427 - Theory of Computation
- CSE 4743 - Computer Security

Competitions

– **Top 10, Health Data Challenge**, Atlantic AI Summit 2025: Advanced to final round developing AI solutions for improving public health communication strategies.
– **Finalist, Blockchain Olympiad 2022**: Selected among top 50 teams globally; proposed Hyperledger Fabric-based pension system for e-governance applications.
– **Top 40, National Cyber Drill**, BGD e-GOV CIRT 2021: Placed 35^{th} among 396 teams in Bangladesh's national cybersecurity competition.
– **Photography Exhibition, Mindsparks 2022**: Selected to exhibit documentary photography on marginalized communities (Ahsanullah University of Science & Technology, Dhaka).