Farhana Faruqe

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Research Interest

Artificial Intelligence (AI) Ethics, Social Computing, Trustworthy AI, Acceptance of AI Technology, and Human-Technology Interaction.

Teaching Experience

Assistant Professor, School of Data Science, University of Virginia, U.S. | Starting Fall 2023

Adjunct Lecturer, Data Science Program, George Washington University, U.S.

- Introduction to Data Science   Fall 2022 – present
- Ethics of Data Science   Spring 2023 – present

Adjunct Lecturer, Computer Science & Electrical Engineering Department, University of Maryland Baltimore County, U.S.

- Ethical and legal issues in Data Science   Fall 2022 – present

Graduate Teaching Assistant, Data Science Program, George Washington University, U.S.

- Introduction to Data Science   Spring 2017 – Fall 2017

Education

Ph.D. Candidate, Human-Technology Collaboration, Degree Expected, Summer 2023
George Washington University, U.S
Advisor: Larry Medsker, Ph.D.

Master of Science in Data Science, 2017
George Washington University, U.S.
Advisor: Larry Medsker, Ph.D.

Bachelor of Science in Computer Science and Engineering, 2007
BRAC University, Bangladesh
(Graduated with Honors)

Selected Honors	Stipend Fellowship, 2018 to Present Issued by George Washington University, U.S.
	Top 100 teams, 2022 GW New Venture Competition. Idea: AI-for-Equity is a nonprofit that empowers girls and women in Bangladesh and the U.S. through AI technology education.
	Tuition Fellowship, 2018 to 2021 Issued by George Washington University, U.S.
	Knowledge in Action Career Internship Fund (KACIF), 2016 Issued by George Washington University, U.S.
	Employee Core Value Award, 2013 Issued by Medullan Trinidad Ltd.
	Performance Based Scholarship, 2003 to 2007 Issued by BRAC University, Bangladesh

Publication

- Competency Model Approach to AI Literacy: Research-based Path from Initial Framework to Model
  Faruqe, F., Watkins, R., & Medsker, L.
  Advanced. Artificial. Intelligence. Machine. Learning., 2 (4):580-587, 2022

- Monitoring Trust in Human-Machine Interactions for Public Sector Applications
  Faruqe, F., Watkins, R., & Medsker, L.
  Association for the Advancement of Artificial Intelligence (AAAI), Fall Symposium Series (FSS) 2020: Artificial Intelligence in Government and Public Sector.

- National Intravenous Acetaminophen Use in Pediatric Inpatients From 2011-2016. J Pediatr Pharmacol Ther.
  Patel, A. K., Gai, J., Trujillo-Rivera, E., **Faruqe, F**., Kim, D., Bost, J. E., & Pollack, M. M. (2022). The Journal of Pediatric Pharmacology and Therapeutics, 27(4), 358-365.

- Association of Intravenous Acetaminophen Administration With the Duration of Intravenous Opioid Use Among Hospitalized Pediatric Patients. JAMA network open.
  Patel, A. K., Gai, J., Trujillo-Rivera, E**., Faruqe, F.,** Kim, D., Bost, J. E., & Pollack, M. JAMA network open, 4(12), e2138420-e2138420.

- Sedation, Analgesia and Neuromuscular Blockade: an Assessment of Practices from 2009-2016 in a National Sample of 66,443 Pediatric Patients Cared for in intensive care Unit.
  Patel AK, Trujillo-Rivera E**, Faruqe F**, Heneghan JA, Workman TE, Zeng-Treitler Q, Chamberlain J, Morizono H, Kim D, Bost JE, Pollack MM. (2020). Pediatric critical care medicine: a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies, 21(9), e599.

- Medications for Children Receiving Intensive Care : A National Sample
  Julia A. Heneghan, MD, Eduardo A. Trujillo Rivera, PhD, Qing Zeng-Treitler, PhD**, Farhana Faruqe**, **MS,** Hiroki Morizono, PhD, James E. Bost, PhD, Murray M. Pollack, MD, and Anita K. Patel, MD
  Pediatric Critical Care Medicine, 2020. 7. 370: Medication Profiles of Children in the Intensive Care Unit: A National Assessment | Critical Care Medicine.

- BWN - A Software Platform for Developing Bengali WordNet
  Faruqe, F., & Khan, M.
  In Innovations and Advances in Computer Sciences and Engineering (pp. 337-342). Springer, Dordrecht. | Innovations and Advances in Computer Sciences and Engineering. Springer, Dordrecht, 2009.

Newsletter & Article	• AI Matters Newsletter, Volume 6, Issue 1: AI Policy Matters Medsker, L, **Faruqe, F.** ACM Special Interest Group on Artificial Intelligence, 2020. • AI and Facial Recognition: AI Matters Medsker, L, **Faruqe, F.** ACM Special Interest Group on Artificial Intelligence, 2020 • Bias, Discrimination, and Fairness| AI Matters Medsker, L, **Faruqe, F.** ACM Special Interest Group on Artificial Intelligence, 2020
Panelist & Conference Presenter	• Panelist, K-12 Data Science Connect Conference 2022. • Becoming a Data Scientist, Data Science Virtual Conference, Data Science Connect, 2021. • Competency Model Approach to AI Literacy: Research-based Path from Initial Framework to Model. International Joint Conference on Artificial Intelligence (IJCAI) 2021. • Trustworthy AI | The Weekly Regression Podcast, 2021. • Trustworthy AI | Data Science Virtual Conference, Data Science Connect, 2020. • Trust in Human-Machine Interactions with Pupil Dilation | GW Research Showcase, 2020. • Modeling the Future of Workforce Development in the Age of AI | AAAI FSS, 2019. • Emerging Ideas for Cognitive Assistance Applications | AAAI, FSS 2017, VA.
Editorial Contribution	**Founding Editorial Board Member**, 2020 to Present AI and Ethics Journal, Springer Nature, https://www.springer.com/journal/4368 **Manuscripts Reviewed** • An Insight and Resolve into Algorithmic Bias in Artificial Intelligence Systems • Moral Consideration of Nonhumans in the Ethics of Artificial Intelligence • Trust and Trustworthiness in AI Ethics • The double-edged sword of AI: Ethical Adversarial Attacks to Counter Artificial Intelligence for Crime

- Artificial Intelligence in Research and Development for Sustainability
- The Centrality of Explicability and Research Data Management Making Sense of the Conceptual Nonsense 'Trustworthy AI'

Research Experience	**Graduate Researcher**, AI Ethics and AI Acceptance	Fall 2018 - Present
	Human Technology Collaboration Lab, George Washington University	
	Research Programmer	2007 - 2009
	Center for Research on Bangla Language Processing, BRAC University, Bangladesh	

Industry Experience	**Data Analyst–Chief Medical Officer**	2018 - 2022
	Children's National Health System, Washington DC	
	Software Development Lead, Project Manager	2010 - 2015
	Medullan, Trinidad & Tobago and U.S.	

Diversity Leadership & Mentoring

Co-Founder | AI-for-Equity, Nonprofit organization   2020 to Present

https://ai4eq.com

- Pro bono work to empower young women through technology and AI ethics education.
- Mentoring twenty high school students from Bangladesh.