

Anna Fariha

Kahlert School of Computing, University of Utah
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Research Interests

My research focuses on various aspects of data system democratization: *enhancing usability* of data systems for both non-experts and experts, building *recommendation systems* for various data-management tasks, and *providing explanation frameworks* to enhance data and systems understanding.

- *Data systems usability*: data discovery, data evolution, data insights, data ingestion, query by example.
- *Recommendation systems*: data summarization, data wrangling.
- *Causal reasoning and explanation frameworks*: software debugging, automatic program repair, data debugging, visualization debugging, explaining data non-conformance, causal insights.
- *Others*: data constraints, data cleaning, trusted machine learning, fair machine learning, personalized text summarization, large-language models for data management, querying unstructured documents.

Education

Doctor of Philosophy in Computer Science

Manning College of Information and Computer Sciences

2021

University of Massachusetts, Amherst, MA

- Dissertation: Enhancing Usability and Explainability of Data Systems
- Advisor: Alexandra Meliou
- Committee members: Emery Berger, Peter Haas, Suman Nath
- CGPA: 4.00 out of 4.00

Master of Science in Computer Science

Manning College of Information and Computer Sciences

2020

University of Massachusetts, Amherst, MA

- CGPA: 4.00 out of 4.00

Master of Science in Computer Science and Engineering

Department of Computer Science and Engineering

2011

University of Dhaka, Bangladesh

- Thesis: A New Approach for Frequent Human Interaction Pattern Mining in Meeting Databases
- CGPA: 4.00 out of 4.00

Bachelor of Science in Computer Science and Engineering

Department of Computer Science and Engineering

2010

University of Dhaka, Bangladesh

- Thesis: An Algorithm for Graph Mining using Efficient Graph Indexing for Evolving Database
- CGPA: 3.83 out of 4.00

Employment History

University of Utah

Assistant Professor

Kahlert School of Computing

7/2023 – present

Salt Lake City, UT, USA

Microsoft

Researcher

PROSE research and engineering team for AI-assisted programming

Managers: Gustavo Soares, Sumit Gulwani

6/2021 – 5/2023

Redmond, WA, USA

Microsoft	5/2019 – 11/2019
<i>Research Intern</i>	Bellevue, WA, USA
PROSE research and engineering team for AI-assisted programming	
Mentor: Ashish Tiwari	
Project: Conformance constraints and trusted machine learning	
Microsoft Research	5/2018 – 8/2018
<i>Research Intern</i>	Redmond, WA, USA
Data Management, Exploration and Mining (DMX)	
Mentor: Suman Nath	
Project: Adaptive interventional debugging for finding root causes of nondeterministic software bugs	
University of Massachusetts	9/2016 – 5/2021
<i>Research Assistant</i>	Amherst, MA, USA
Data Systems Research for Exploration, Analytics, and Modeling (DREAM) Lab	
Manning College of Information and Computer Sciences	
Supervisor: Alexandra Meliou	
Lalmatia Women's College	1/2015 – 4/2015
<i>Guest Lecturer</i>	Dhaka, Bangladesh
Department of Business Administration	
University of Dhaka	5/2014 – 8/2016
<i>Lecturer</i>	Dhaka, Bangladesh
Department of Computer Science and Engineering	
United International University	5/2012 – 4/2014
<i>Lecturer</i>	Dhaka, Bangladesh
Department of Computer Science and Engineering	
University of Liberal Arts	10/2011 – 1/2012
<i>Competitive Programming Trainer</i>	Dhaka, Bangladesh
Coach for competitive programming in preparation for ACM ICPC Programming Contests	
Structured Data Systems Limited	9/2011 – 5/2012
<i>Software Engineer</i>	Dhaka, Bangladesh
Android and Blackberry mobile applications	
University of Asia Pacific	10/2010 – 10/2010
<i>Competitive Programming Trainer</i>	Dhaka, Bangladesh
Coach for competitive programming in preparation for ACM ICPC Programming Contests	

Honors, Awards, & Achievements

SIGMOD Distinguished PC member	2024
SIGMOD Distinguished PC member	2023
SIGMOD Distinguished PC member	2022
SIGMOD Comprehensive Reproducibility Award	2022
VLDL Best Demonstration Runner-up Award	2020
Jim Gray Scholarship, CICS, UMass Amherst	2016
Special Achievement Award: Bangladesh ICT Journalist Forum	2012
Special Achievement Award: Bangladesh Bangladesh Women in IT	2012
University Scholarship for result in Bachelors of Science, U of Dhaka	2012
Special Achievement Award for outstanding performances in programming contests, U of Dhaka	2011
Dean's Honor Award (top 1%), Faculty of Engineering, U of Dhaka	2011
Dean's Award, Faculty of Engineering, U of Dhaka	2010
Fatema-Iqbal Trust Scholarship, U of Dhaka	2008

Travel and Accommodation Scholarships

Invited Participant with Accommodation Support, Dagstuhl Seminar on Multimodal Data Quality, Germany	2026
Invited Participant, CRA Career Mentoring Workshop, Washington, DC	2024
Invited Participant with Accommodation Support, Logic and Algebra for Query Evaluation – Simons Institute for the Theory of Computing, Berkeley, California	2023
Invited Participant with Travel & Accommodation Support, CRA-WP Career Mentoring Workshop – Chicago, Illinois	2023
CRA-W Grad Cohort Workshop Travel and Accommodation Award, Washington DC	2017

Programming Contests

Rank 5, ACM International Collegiate Programming Contest, Dhaka (Team: DU Resonance)	2011
Rank 1, Islamic University of Technology ICT Fest Programming Contest (Team: DU Resonance)	2011
Rank 1, Dhaka University National Collegiate Programming Contest (Team: DU Resonance)	2011
Rank 1, Dhaka University National Collegiate Programming Contest [Women] (Team: DU Felicity)	2011
Rank 2, SUST National Collegiate Programming Contest (Team: DU Resonance)	2010
Rank 6, ACM International Collegiate Programming Contest, Amritapuri (Team: DU Resonance)	2010
Rank 4, ACM International Collegiate Programming Contest, Dhaka (Team: DU Resonance)	2010
Rank 3, ACM International Collegiate Programming Contest, Dhaka (Team: DU Ouranos)	2009
Rank 515, Google Code Jam, (Individual, id: chorui12)	2009
Rank 4, AUST National Collegiate Programming Contest (Team: DU Resonance)	2009

Grants

1. **Stena Center for Financial Technology – Intelligent Data Summary Recommendations for Fintech Data Analysis** [PI]. Total award amount: \$12,500. Award duration: Academic year: 2025–2026.
2. **One Utah Data Science Hub Seed Grant Award:** *Explaining Data Evolution* [PI]. Total award amount: \$50,000. Award duration: Mar 2024–Feb 2025.
3. **CIRC: ENS/Grand. NSF CNS 2346555: POWDER-ENS - Enhancing and Sustaining the POWDER Platform** [Co-PI, PI: Jacobus Van Der Merwe, other co-PIs: Aditya Bhaskara, Eric Eide]. Total award amount: \$4,999,980. Award duration: Oct 2024–Sep 2028.
4. **CRA-WP Distributed Research Experiences for Undergraduates (DREU): Summer support for two students.** Total award amount: \$14,000. Award duration: Summer 2024.
5. **USHE: Computer Science Targeted Workforce Application: Training the Next Generation of Database Engineers: Responsible, User-Centric, and Efficient Data Management** [led by Jeff Phillips]. Teaching grant for developing a new course: *Human-centered Data Management*. Academic year: 2023–2024.
6. **Microsoft Research Dissertation Grant.** Total award amount: \$25,000. Academic year 2020–2021.

Publications

Journal and Conference Publications

- [1] Zifan Liu, Shaleen Deep, Anna Fariha, Fotis Psallidas, Ashish Tiwari, and Avrilia Floratou. Rapidash: Efficient Detection of Constraint Violations. *Proc. VLDB Endow.*, 17(8):2009–2021, 2024
- [2] Anjali Singh, Anna Fariha, Christopher Brooks, Gustavo Soares, Austin Z. Henley, Ashish Tiwari, Chethan M, Heeryung Choi, and Sumit Gulwani. Investigating Student Mistakes in Introductory Data Science Programming. In *SIGCSE*, pages 1258–1264. ACM, 2024
- [3] Rohan Bavishi, Harshit Joshi, José Cambronero, Anna Fariha, Sumit Gulwani, Vu Le, Ivan Radicek, and Ashish Tiwari. Neurosymbolic Repair for Low-code Formula Languages. *Proc. ACM Program. Lang.*, 6(OOPSLA2):1093–1122, 2022
- [4] Sainyam Galhotra, Anna Fariha, Raoni Lourenço, Juliana Freire, Alexandra Meliou, and Divesh Srivastava. Dataprism: Exposing Disconnect between Data and Systems. In *SIGMOD*, pages 217–231. ACM, 2022

- [5] Maliha Tashfia Islam, Anna Fariha, Alexandra Meliou, and Babak Salimi. Through the Data Management Lens: Experimental Analysis and Evaluation of Fair Classification. In *SIGMOD*, pages 232–246. ACM, 2022
- [6] Anna Fariha, Ashish Tiwari, Arjun Radhakrishna, Sumit Gulwani, and Alexandra Meliou. Conformance Constraint Discovery: Measuring Trust in Data-Driven Systems. In *SIGMOD*, pages 499–512. ACM, 2021 ([Comprehensive Reproducibility Award](#))
- [7] Anna Fariha, Suman Nath, and Alexandra Meliou. Causality-Guided Adaptive Interventional Debugging. In *SIGMOD*, pages 431–446. ACM, 2020
- [8] Anna Fariha and Alexandra Meliou. Example-Driven Query Intent Discovery: Abductive Reasoning using Semantic Similarity. *Proc. VLDB Endow.*, 12(11):1262–1275, 2019
- [9] Anna Fariha, Chowdhury Farhan Ahmed, Carson K. Leung, Md. Samiullah, Suraiya Pervin, and Longbing Cao. A New Framework for Mining Frequent Interaction Patterns from Meeting Databases. *Eng. Appl. Artif. Intell.*, 45:103–118, 2015
- [10] Amit Mandal, Mehedi Hasan, Anna Fariha, and Chowdhury Farhan Ahmed. GSCS - Graph Stream Classification with Side Information. In *APWeb*, pages 389–400, 2015
- [11] Md. Samiullah, Chowdhury Farhan Ahmed, Anna Fariha, Md. Rafiqul Islam, and Nicolas Lachiche. Mining frequent correlated graphs with a new measure. *Expert Syst. Appl.*, 41(4):1847–1863, 2014
- [12] Shafaet Ashraf, Sheikh Muhammad Sarwar, Md. Abeed Hassan, Saifuddin Md. Tareeq, and Anna Fariha. An Efficient Method for Extracting Subtrees against Forest Query. In *IMCOM*, pages 98:1–98:7. ACM, 2015
- [13] Anna Fariha, Chowdhury Farhan Ahmed, Carson Kai-Sang Leung, S. M. Abdullah, and Longbing Cao. Mining Frequent Patterns from Human Interactions in Meetings Using Directed Acyclic Graphs. In *PAKDD*, pages 38–49, 2013
- [14] Md. Samiullah, Chowdhury Farhan Ahmed, Manziba Akanda Nishi, Anna Fariha, S. M. Abdullah, and Md. Rafiqul Islam. Correlation Mining in Graph Databases with a New Measure. In *APWeb*, pages 88–95, 2013
- [15] Shariful Islam, Anna Fariha, Chowdhury Farhan Ahmed, and Byeong-Soo Jeong. EGDIM: Evolving Graph Database Indexing Method. In *ICUIMC*, pages 56:1–56:10, 2012

Short, Demonstration, and Workshop Papers

- [16] Bhavya Chopra, Ananya Singha, Anna Fariha, Sumit Gulwani, Chris Parnin, Ashish Tiwari, and Austin Z. Henley. Challenges in Using Conversational AI for Data Science. *HILDA@SIGMOD*, 2025
- [17] Shiyi He, Alexandra Meliou, and Anna Fariha. ChARLES: Change-Aware Recovery of Latent Evolution Semantics in Relational Data. *SIGMOD*, 2025
- [18] Ankita Sharma, Jaykumar Tandel, Xuanmao Li, Lanjun Wang, Anna Fariha, Liang Zhang, Syed Arsalan Ahmed Naqvi, Irbaz Bin Riaz, Lei Cao, and Jia Zou. DataMorpher: Automatic Data Transformation based on Large Language Models. *ICDE*, 2025
- [19] Whanhee Cho and Anna Fariha. UTOPIA: Automatic Pivot Table Assistant. *Proc. VLDB Endow.*, 2024
- [20] Bhavya Chopra, Anna Fariha, Sumit Gulwani, Austin Z. Henley, Daniel Perelman, Mohammad Raza, Sherry Shi, Danny Simmons, and Ashish Tiwari. CoWrangler: Recommender System for Data-Wrangling Scripts. In *SIGMOD*. ACM, 2023
- [21] El Kindi Rezig, Anshul Bhandari, Anna Fariha, Benjamin Price, Allan Vanterpool, Andrew Bowne, Lindsey McEvoy, and Vijay Gadepally. Examples are All You Need: Iterative Data Discovery by Example in Data Lakes. In *CIDR*, 2022
- [22] El Kindi Rezig, Anshul Bhandari, Anna Fariha, Benjamin Price, Allan Vanterpool, Vijay Gadepally, and Michael Stonebraker. DICE: Data Discovery by Example. *Proc. VLDB Endow.*, 14(12):2819–2822, 2021

- [23] Nishant Yadav, Matteo Brucato, Anna Fariha, Oscar Youngquist, Julian Killingback, Alexandra Meliou, and Peter Haas. SUBSUME: A dataset for subjective summary extraction from Wikipedia documents. In *New Frontiers in Summarization@EMNLP*, pages 131–141, 2021
- [24] Anna Fariha, Ashish Tiwari, Alexandra Meliou, Arjun Radhakrishna, and Sumit Gulwani. CoCo: Interactive Exploration of Conformance Constraints for Data Understanding and Data Cleaning. In *SIGMOD*, pages 2706–2710. ACM, 2021
- [25] Anna Fariha, Ashish Tiwari, Arjun Radhakrishna, and Sumit Gulwani. ExTuNe: Explaining Tuple Non-conformance. In *SIGMOD*, pages 2741–2744. ACM, 2020
- [26] Anna Fariha, Matteo Brucato, Peter J. Haas, and Alexandra Meliou. SuDocu: Summarizing Documents by Example. *Proc. VLDB Endow.*, 13(12):2861–2864, 2020 ([Best Demonstration Runner Up Award](#))
- [27] Anna Fariha, Sheikh Muhammad Sarwar, and Alexandra Meliou. SQuID: Semantic Similarity-Aware Query Intent Discovery. In *SIGMOD*, pages 1745–1748. ACM, 2018
- [28] Quazi Marufur Rahman, Anna Fariha, Amit Mandal, Chowdhury Farhan Ahmed, and Carson K. Leung. A Sliding Window-Based Algorithm for Detecting Leaders from Social Network Action Streams. In *IEEE/WIC/ACM WI-IAT*, pages 133–136, 2015

PhD Thesis

- [29] Anna Fariha. *Enhancing Usability and Explainability of Data Systems*. PhD thesis, University of Massachusetts Amherst. https://scholarworks.umass.edu/dissertations_2/2311/

Software, Educational Content, and Patents

- SAGE: Data-Semantics-Aware Recommendation of Diverse Pivot Tables. [Link](#)
- ChARLES: Change-Aware Recovery of Latent Evolution Semantics in Relational Data. [Link](#)
- ExDis: Explaining Disparate Trends. [Link](#)
- UTOPIA: Automatic Pivot Table Assistant. [Link](#)
- SQuID: Semantic similarity-aware Query Intent Discovery. [Link](#)
- Conformance Constraints Discovery: Measuring Trust in Data-Driven Systems (Winner of the ACM SIGMOD 2022 Most Reproducible Paper Award). [Link](#)
- SubSumE Dataset for Subjective Document Summarization. [Link](#)
- A Data Management Perspective on Fair Classification: An Experimental Analysis and Evaluation. [Link](#)
- Educational video on “Research in Computer Science (Databases/Data Management Track)”. [Link](#)
- Bavishi, R. J., Cambronero Sánchez, J. P., **Fariha, A.**, Gulwani, S., Le, V. M., Radicek, I., Simmons, D. G., & Tiwari, A. (2025). Language-agnostic computer program repair engine generator (U.S. Patent No. 12,265,789). U.S. Patent and Trademark Office.
Link: <https://patents.google.com/patent/US12265789>
- Deep, S., Liu, Z., Tiwari, A., **Fariha, A.**, Floratou, A., & Pasallidas, F. (2024). System and method for fast constraint discovery on relational data (U.S. Patent Application No. 18/060,500). United States Patent and Trademark Office.
Link: <https://patents.google.com/patent/US20240176802A1/en>

Panels and Proposal Reviews

- Panelist – Grad-CS Women Panel on “Q&A Session for Women Graduate Students in Computer Science”, KSoC, University of Utah 2025
- Reviewer – Israel Science Foundation March, 2025
- Panelist – Northwest Database Society Annual Meeting: Panel on AI and Data Management February, 2024
- Panelist – NSF Information and Intelligent Systems division (IIS) 2023
- Panelist – NSF’s CSGrad4US Panel: “What I wish I knew before I started graduate school” October, 2023
- Panelist – SIGMOD New Researcher Symposium June, 2022
- Round Table Chair – VLDB: Interactive Querying and Visualization for Large Data August, 2021

Invited Talks

- *Understanding Data through Change Summarization and Causal Disparity Explanations*
 - Data Science Seminar, University of Utah
 - TDSAI Lab, Department of Computer Science, Institute of Science Tokyo
 - Onizuka Lab, Osaka University
 - Database Seminar, Cornell University
- *Explaining Data Evolution*
 - DELPHI Data Science Symposium, University of Utah
- *Recent Trends in Scalable and Human-centric Data Systems*
 - Research Challenges in Computing Seminar Series, University of Utah
- *Through the Data Management Lens: Experimental Analysis and Evaluation of Fair Classification*
 - Bias, Ethics and Trustworthiness in Data Science and AI event, University of Utah
- *Blame the data, not the system: how data constraints can help in trustworthy machine learning and explain causes of data-system malfunction*
 - Data Science Lecture Series, University of Utah
 - University of Washington, Northwest Database Society
- *Blame the data, not the system: How data profiles can help explain causes of data-system malfunction*
 - Northwest Database Society (NWDS) Annual Meeting
- *Enhancing usability and explainability of data systems*
 - Database Seminar, University of California San Diego (virtual)
 - Cornell University
 - Georgia University of Technology
 - University of California, Santa Barbara
 - University of Minnesota (virtual)
 - University of Waterloo (virtual)
 - University of Utah
 - University of Toronto (virtual)
 - Pennsylvania State University (virtual)
 - EPIC meeting, University of California, Berkeley (virtual)
 - Ohio State University (virtual)
 - CSAIR, Massachusetts Institute of Technology (virtual)
 - Microsoft (virtual)
 - Megagon Labs (virtual)
 - University of Pennsylvania (virtual)
 - DATA Lab, Northeastern University (virtual)

Teaching

- **University of Utah**
 - CS 6959/3960 - Human-Centered Data Management (graduate + undergraduate)
 - CS 6530 - Advanced Database Systems (graduate)
 - CS 6959/3960 - Human-Centered Data Management (graduate + undergraduate)
 - CS 5353/6353 - Deep Learning (graduate + undergraduate)
 - CS 6959/3960 - Human-Centered Data Management (graduate + undergraduate)
 - CS 5353/6353 - Deep Learning (graduate + undergraduate)
- **University of Dhaka, Bangladesh**
 - CSE 1201 - Fundamentals of Programming (undergraduate)
 - CSE 1211 - Fundamentals of Programming Lab (undergraduate)

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|---|-------------|
| – CSE 1102 - Discrete Mathematics (undergraduate) | Fall 2014 |
| – CSE 2101 - Data Structures and Algorithms (undergraduate) | Spring 2015 |
| – CSE 2111 - Data Structures and Algorithms Lab (undergraduate) | Spring 2015 |
| – CSE 3113 - Microprocessor and Assembly Language Lab (undergraduate) | Fall 2015 |
| – CSE 1111 - Fundamentals of Computer and Computing Lab (undergraduate) | Fall 2015 |
| – CSE 2112 - Object Oriented Programming Lab (undergraduate) | Spring 2016 |
| – CSE 2212 - Design and Analysis of Algorithms Lab (undergraduate) | Spring 2016 |
| – CSE 4111 - Artificial Intelligence Lab (undergraduate) | Spring 2016 |
- **United International University, Bangladesh**
 - CSI 219 - Discrete Mathematics (undergraduate)
 - CSI 121 - Structured Programming Language (undergraduate)
 - CSI 122 - Structured Programming Language Laboratory (undergraduate)
 - CSI 228 - Algorithms Laboratory (undergraduate)
 - CSI 233 - Theory of Computing (undergraduate)
 - CSI 341 - Artificial Intelligence (undergraduate)
 - CSI 342 - Artificial Intelligence Laboratory (undergraduate)

Student Supervision

PhD Advisor: Current

- Whanhee Cho Fall 2023–present
- Anirudh Kamath Fall 2025–present
- Shamit Fatin Fall 2025–present
- Aritra Mazumder Fall 2025–present

PhD Advisor: Past

- Chetan Bajaj Spring 2025
- Shiyi He Fall 2023–Fall 2024

Thesis Committee Member

- Anirudh Kamath (MS) Spring 2025
- Kutay Eken (MS) Spring 2026

Masters & Undergraduate

- University of Utah
 - Kuangfei Long, Boston University Summer 2024 – Present
 - Tal Blau, Technion - Israel Institute of Technology Spring 2024 – Present
 - Shreya Raj, UMass Amherst Summer 2024 – Fall 2024
 - Vijaysurya Vempati (MS) Fall 2024
 - William Erignac Summer 2024
 - Ziming Wang Fall 2024
 - Holden Ellsworth (MS) Summer 2024
 - Bhavya Chopra, University of California, Berkeley Summer 2024
 - Yuqing Wang, University of Wisconsin-Madison (DREU by CRA, Project Report [30]) Summer 2024
 - Rania Saber, University of California-Riverside (DREU by CRA, Project Report [31]) Summer 2024
 - Qiaoyi Cai Fall 2023
- University of Dhaka
 - Quazi Marufur Rahman (MS) 2015
 - Amit Mandal 2015
 - Mehedi Hasan 2015
 - Nitish Ranjan Bhowmik 2015

- Kazi Mazbah Uddin 2015

Mentorship

- Microsoft
 - Bhavya Chopra (Predoctoral Research Fellow) [PhD student at UC Berkeley] 2022–2023
 - Yang Shi (Research Intern) [Assistant Professor at Utah State University] 2022
 - Chethan Mahadevaswamy (Predoctoral Research Fellow) [Data Scientist at Microsoft] 2021–2022
- University of Massachusetts Amherst
 - Maliha Islam (PhD) [Now at Microsoft] 2020–2021
 - Hasnain Heickal (PhD) 2021–2022
 - Oscar Youngquist (MS) 2021–2022
 - Julian Killingback (MS) 2021
 - Kanchi Masalia (MS) 2020
 - Lucy Cousins (MS) 2019–2021
 - Genglin Liu (Undergrad) 2020
 - Armand Asnani (Undergrad) 2019–2020
 - Nischal Dave (Undergrad) 2019
 - Zoey (Jingyi) Sun (Undergrad from Smith College) 2018
 - Lauren Beryl Larson (REU) (Undergrad from Wellesley College) 2017
 - Michael Satanovsky (High-school Intern from Hopkins School) 2017

Professional Service

Internal Service

- Member, Course Review Sub Committee, KSoC 2025
- Core Member, Utah Center For Data Science 2025–present
- Faculty liaison for the Graduate Student Advisory Committee (GradSAC), KSoC 2025–present
- Member, Committee to Develop BS in Artificial Intelligence, KSoC 2025
- Member, Faculty Recruiting Committee, KSoC 2025
- Graduate Admission Committee, KSoC 2025
- Member, Research Support/Opportunities Committee, KSoC 2024–present
- Panelist, Graduate Student Mentoring Panel on “How to get a job in industry?”, KSoC 2024
- Founder and Advisor, Grad-CS Women, KSoC (gradcswomen-utah.github.io) 2024–2025
- Graduate Admission Committee, KSoC 2024
- Faculty Advisor, Women in Computing (wic.utahclubs.org) 2023–2025
- Mentor of 1st Year PhD Student (Ishrat Jahan Eliza), KSoC 2023
- Co-founder of UtahDB Research Center (mod.cs.utah.edu) 2022–present

External Service

Conference Service

- Chair, Workshop on Human-In-the-Loop Data Analytics (HILDA), at SIGMOD (hilda.io/2026/) 2026
- Program Committee, SIGMOD (research track) 2027
- Chair, New Researcher Symposium and Mentorship, SIGMOD 2026
- Chair, Publication and Proceedings, ICDE 2026
- Session Chair, “Data Models & Interfaces” at SIGMOD 2025
- Program Committee, SIGMOD (research track) 2026
- Chair, Data-AI Systems (DAIS) Workshop, co-located with ICDE (dais-workshop-icde.github.io) 2025
- Program Committee, ICDE (research track) 2025
- Program Committee, VLDB (demonstration track) 2025
- Program Committee, VLDB (research track) 2025
- Program Committee, SIGMOD (demonstration track) 2025

- Program Committee, SIGMOD (research track) 2025
- Program Committee, GUIDE-AI: SIGMOD Workshop 2024
- Program Committee, ICDE (demonstration track) 2024
- Program Committee, SIGMOD (demonstration track) 2024
- Program Committee, SIGMOD (research track) 2024
- Program Committee, ICDE (Ph.D. Symposium) 2023
- Program Committee, SIGMOD (research track) 2023
- Program Committee, VLDB (research track) 2023
- Program Committee, SIGMOD (research track) 2022
- Program Committee, VLDB (research track) 2022
- Program Committee, EDBT (demonstration track) 2022
- Program Committee, SIGMOD (research track) 2021
- Session chair, EDBT 2021
- Program Committee, EDBT (demonstration track) 2021
- Program Committee, VLDB (demonstration track) 2021

Other Reviewing and Community Service

- Reviewer, Elsevier Information Systems Journal 2025
- Mentor of Xuan Luo (Simon Fraser University) at New Researcher Symposium, SIGMOD 2024
- Reviewer, the TKDE Journal 2024
- Reviewer, the VLDB Journal 2023
- Reviewer, the VLDB Journal 2021
- Reviewer, UIST 2021
- External reviewer, CHI 2021
- External reviewer, SIGMOD 2018–2020

Problem Setter & Judge of Competitive Programming Contests

- State University Bangladesh Inter-University Programming Contest, Bangladesh 2015
- SAARC Programming Contest, Bangladesh University, Bangladesh 2014
- Islamic University of Technology ICT Fest, Bangladesh 2014
- SAARC Programming Contest, Bangladesh University, Bangladesh 2013
- Bangladesh Informatics Olympiad, National Round, Bangladesh 2013
- North South University Inter-University Programming Contest, Bangladesh 2013
- ACM International Collegiate Programming Contest, Dhaka, Bangladesh 2012