

# Anna Fariha

Kahlert School of Computing, University of Utah  
Warnock Engineering Building, #2851  
72 Central Campus Drive, Salt Lake City, UT, 84112

afariha@cs.utah.edu  
afariha.github.io  
+1 801-581-3037

## 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, 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.

## Education

### Doctor of Philosophy in Computer Science

2021

Manning College of Information and Computer Sciences

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

2020

Manning College of Information and Computer Sciences

University of Massachusetts, Amherst, MA

- CGPA: 4.00 out of 4.00

### Master of Science in Computer Science and Engineering

2011

Department of Computer Science and Engineering

University of Dhaka, Bangladesh

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

### Bachelor of Science in Computer Science and Engineering

2010

Department of Computer Science and Engineering

University of Dhaka, Bangladesh

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

## Employment History

### University of Utah

7/2023 – present

Assistant Professor

Salt Lake City, UT, USA

Kahlert School of Computing

### Microsoft

6/2021 – 5/2023

Researcher

Redmond, WA, USA

PROSE research and engineering team for AI-assisted programming

Managers: Gustavo Soares, Sumit Gulwani

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

## Honors, Awards, & Achievements

SIGMOD Distinguished PC member	2024
SIGMOD Distinguished PC member	2023
SIGMOD Distinguished PC member	2022
SIGMOD Comprehensive Reproducibility Award	2022
VLDB 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, 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. Dat-aPrism: 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/](https://scholarworks.umass.edu/dissertations_2/2311/)

## Software and Educational Content

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- 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](#)

## Panels and Proposal Reviews

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- |   |                |
|---|----------------|
| • 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

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- |   |                 |
|---|-----------------|
| • <i>Understanding Data through Change Summarization and Causal Disparity Explanations</i><br>– Database Seminar, Cornell University  | April, 2025     |
| • <i>Explaining Data Evolution</i><br>– DELPHI Data Science Symposium, University of Utah   | November, 2024  |
| • <i>Recent Trends in Scalable and Human-centric Data Systems</i><br>– Research Challenges in Computing Seminar Series, University of Utah  | October, 2023   |
| • <i>Through the Data Management Lens: Experimental Analysis and Evaluation of Fair Classification</i><br>– Bias, Ethics and Trustworthiness in Data Science and AI event, University of Utah | September, 2023 |

- *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 September, 2023
  - University of Washington, Northwest Database Society November, 2021
- *Blame the data, not the system: How data profiles can help explain causes of data-system malfunction*
  - Northwest Database Society (NWDS) Annual Meeting May, 2023
- *Enhancing usability and explainability of data systems*
  - Database Seminar, University of California San Diego (virtual) April, 2023
  - Cornell University April, 2022
  - Georgia University of Technology April, 2022
  - University of California, Santa Barbara March, 2022
  - University of Minnesota (virtual) March, 2022
  - University of Waterloo (virtual) March, 2022
  - University of Utah February, 2022
  - University of Toronto (virtual) February, 2022
  - Pennsylvania State University (virtual) February, 2022
  - EPIC meeting, University of California, Berkeley (virtual) February, 2022
  - Ohio State University (virtual) January, 2022
  - CSAIL, Massachusetts Institute of Technology (virtual) October, 2021
  - Microsoft (virtual) January, 2021
  - Megagon Labs (virtual) February, 2021
  - University of Pennsylvania (virtual) February, 2021
  - DATA Lab, Northeastern University (virtual) January, 2021

## Teaching

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- **University of Utah**

- CS 6530 - Advanced Database Systems (graduate) Fall 2025
- CS 6959/3960 - Human-Centered Data Management (graduate + undergraduate) Spring 2025
- CS 5353/6353 - Deep Learning (graduate + undergraduate) Fall 2024
- CS 6959/3960 - Human-Centered Data Management (graduate + undergraduate) Spring 2024
- CS 5353/6353 - Deep Learning (graduate + undergraduate) Fall 2023

- **University of Dhaka, Bangladesh**

- CSE 1201 - Fundamentals of Programming (undergraduate) Spring 2014
- CSE 1211 - Fundamentals of Programming Lab (undergraduate) Spring 2014
- 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)

## Student Supervision

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### 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 2025 |

### 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

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### Internal Service

• Member, Faculty Recruiting Committee, KSoC	2025
• Graduate Admission Committee, KSoC	2025
• Member, Research Support/Opportunities Committee, KSoC	2024
• Panelist, Graduate Student Mentoring Panel on “How to get a job in industry?”, KSoC	2024
• Founder and Advisor, Grad-CS Women, KSoC ( <a href="https://gradcswomen-utah.github.io">gradcswomen-utah.github.io</a> )	2024–present
• Graduate Admission Committee, KSoC	2024
• Faculty Advisor, Women in Computing ( <a href="https://wic.utahclubs.org">wic.utahclubs.org</a> )	2023–present
• Mentor of 1st Year PhD Student (Ishrat Jahan Eliza), KSoC	2023
• Co-founder of UtahDB Research Center ( <a href="https://mod.cs.utah.edu">mod.cs.utah.edu</a> )	2022–present

### External Service

#### Program Committee and Workshop Organization

• ACM SIGMOD International Conference on Management of Data (research track)	2026
• Workshop Chair, Data-AI Systems (DAIS), co-located with ICDE ( <a href="https://dais-workshop-icde.github.io">dais-workshop-icde.github.io</a> )	2025
• IEEE International Conference on Data Engineering (ICDE) (research track)	2025
• International Conference on Very Large Databases (VLDB) (demonstration track)	2025
• International Conference on Very Large Databases (VLDB) (research track)	2025
• ACM SIGMOD International Conference on Management of Data (demonstration track)	2025
• ACM SIGMOD International Conference on Management of Data (research track)	2025
• GUIDE-AI: ACM SIGMOD Workshop on Governance, Understanding, and Integration of Data for Effective and Responsible AI	2024
• IEEE International Conference on Data Engineering (ICDE) (demonstration track)	2024
• ACM SIGMOD International Conference on Management of Data (demonstration track)	2024
• ACM SIGMOD International Conference on Management of Data (research track)	2024
• IEEE International Conference on Data Engineering (ICDE) (Ph.D. Symposium)	2023
• ACM SIGMOD International Conference on Management of Data (research track)	2023
• International Conference on Very Large Databases (VLDB) (research track)	2023
• ACM SIGMOD International Conference on Management of Data (research track)	2022
• International Conference on Very Large Databases (VLDB) (research track)	2022
• International Conference on Extending Database Technology (EDBT) (demonstration track)	2022
• ACM SIGMOD International Conference on Management of Data (research track)	2021
• International Conference on Extending Database Technology (EDBT) (demonstration track)	2021
• International Conference on Very Large Databases (VLDB) (demonstration track)	2021

#### Other Reviewing and Community Service

• Mentor of Xuan Luo (Simon Fraser University) at New Researcher Symposium, SIGMOD	2024
• Reviewer of the TKDE Journal	2024
• Reviewer of the VLDB Journal	2023
• Reviewer of the VLDB Journal	2021
• Reviewer of User Interface Software and Technology (UIST)	2021
• Session chair at International Conference on Extending Database Technology (EDBT)	2021
• External reviewer of ACM CHI Conference on Human Factors in Computing Systems	2021



- External reviewer of ACM SIGMOD International Conference on Management of Data

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