

ANNA FARIHA

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CURRENT POSITION

- Graduate Student (MS/PhD) at College of Information and Computer Sciences, University of Massachusetts Amherst
- Research Assistant – DBLab (Advisor: Alexandra Meliou), CICS, UMass Amherst
- Lecturer, Department of CSE, University of Dhaka, Bangladesh (on study leave)

EDUCATION

- MS (ongoing), CICS, UMass Amherst (09/2016 – to date)
 - GPA **4.00** (in the scale of 4.00)
- Master of Science in Computer Science and Engineering (2011)
Department of Computer Science and Engineering, University of Dhaka, Bangladesh
 - GPA **4.00** (in the scale of 4.00)
 - Class position **#1** (among 12 students)
- Bachelor of Science in Computer Science and Engineering (2010)
Department of Computer Science and Engineering, University of Dhaka, Bangladesh
 - GPA **3.83** (in the scale of 4.00)
 - Class position **#1** (among 43 students)
- Higher Secondary School Certificate Examination (2006)
Kushtia Govt. College, Bangladesh
 - GPA **5.00** (in the scale of 5.00)
- Secondary School Certificate Examination (2004)
Kushtia Govt. Girls' High School, Bangladesh
 - GPA **5.00** (in the scale of 5.00)

RESEARCH

- **Research Interests:**
 - Databases: query by example, explanations, query prediction
 - Data Mining: graph mining, graph classification
- **Selected Publications:**
 1. **A Fariha**, SM Sarwar, A Meliou: *SQuID: Semantic Similarity-Aware Query Intent Discovery*. SIGMOD (2018).
 2. **A Fariha**, CF Ahmed, CK Leung, M Samiullah, S Pervin, L Cao: *A new framework for mining frequent interaction patterns from meeting databases*. Engineering Applications of Artificial Intelligence 45, 103-118 (2015)
 3. QM Rahman, **A Fariha**, A Mandal, CF Ahmed, CK Leung: *A Sliding Window-Based Algorithm for Detecting Leaders*. IEEE/WIC/ACM WI-IAT: 133-136 (2015)
 4. A Mandal, M Hasan, **A Fariha**, CF Ahmed: *GSCS - Graph Stream Classification with Side Information*. APWeb: 389-400 (2015)
 5. M Samiullah, CF Ahmed, **A Fariha**, MR Islam, N Lachiche: *Mining frequent correlated graphs with a new measure*. Expert Systems with Applications 41(4): 1847-1863 (2014)
 6. M Samiullah, CF Ahmed, **A Fariha**, A Uddin: *Efficient Graph Classification in Shifted Datasets Using Weighted Correlated Feature Selection*. LMCE Workshop, held in conjunction with the ECML PKDD (2014)
 7. **A Fariha**, CF Ahmed, CK Leung, SM Abdullah, L Cao: *Mining Frequent Patterns from Human Interactions in Meetings Using Directed Acyclic Graphs*. PAKDD: 38-49 (2013)
- **Google Scholar:** <https://scholar.google.com/citations?user=jwHxokAAAAAJ>
- **DBLP:** <http://dblp.uni-trier.de/pers/hd/f/Fariha:Anna>

GRADUATE LEVEL COURSES

Advanced Algorithms, Database Design and Implementation, Machine Learning, Neural Networks: A Modern Introduction, Algorithms for Data Science, Parallel Algorithms and Architecture.

COURSE PROJECTS

- Automatic image captioning using multi-task learning (Fall 2017)
- Neural model for contextual named entity retrieval (Fall 2017)
- Interactively discovering query from example and explanation (Spring 2017)
- Human activity recognition from sensor data (Spring 2017)

ACADEMIC HONORS AND AWARDS

- Jim Gray scholarship, CICS, UMass Amherst, 2016
- Special Achievement Award – Bangladesh ICT Journalist Forum, 2012
- Special Achievement Award – Bangladesh Women in IT, 2012
- Special Achievement Award for outstanding performances in programming contests, 2011
- Dean’s Honor Award and Dean’s Award – Faculty of Engineering, University of Dhaka (top 1%), 2010
- Fatema-Iqbal trust scholarship, University of Dhaka, 2008
- National Education Board Scholarship in HSC examination, 2006
- National Education Board Talent Pool Scholarship in SSC examination, 2004
- Best Student of the School (Kushtia Govt. Girls’ High School) Award, 2003
- Talent Pool Scholarship in National Junior Scholarship Examination, 2001
- Talent Pool Scholarship in National Primary Scholarship Examination, 1998

WORK EXPERIENCE

- **Research Intern** (May 2018 – August 2018)
Mentor: Suman Nath
DMX Lab, Microsoft Research, Redmond, WA
- **Lecturer** (May 2014 – August 2016)
Department of Computer Science and Engineering, University of Dhaka, Dhaka
- **Lecturer** (May 2012 – April 2014)
Department of Computer Science and Engineering, United International University, Dhaka
- **Software Engineer** (September 2011 – May 2012)
Structured Data Systems Limited, Dhaka
 - Projects: Mobile Application Development in Android and Blackberry
- **Website Development:** University of Dhaka, Department of CSE Website (www.cse.du.ac.bd)

PROGRAMMING CONTEST EXPERIENCE

- **Programming Contests**

Event	Position	Team	Year
ACM ICPC (Dhaka)	5 th	DU Resonance	2011
IUT ICT Fest Programming Contest	1 st	DU Resonance	2011
DU NCPC (Dhaka)	1 st	DU Resonance	2011
DU NCPC (Women)	1 st	DU Felicity	2011
SUST NCPC (Sylhet)	2 nd	DU Resonance	2010
ACM ICPC (Amritapuri, India)	6 th	DU Resonance	2010
ACM ICPC (Dhaka)	4 th	DU Resonance	2010
ACM ICPC (Dhaka)	3 rd	DU Ouranos	2009
Google Code Jam	515 th	Individual (chorui12)	2009
AUST NCPC (Dhaka)	4 th	DU Resonance	2009

- **Programming Contest Problem Setter and Judge**
 - IUT ICT Fest, 2014, Islamic University of Technology
 - SAARC Programming Contest, 2014 and 2013, Bangladesh University
 - NSU IUPC, 2013, North South University
 - Bangladesh Informatics Olympiad, 2013, National Round
 - ACM ICPC – Dhaka Site, 2012, Daffodil International University
- **Programming Contest Trainer:** University of Dhaka, United International University, University of Liberal Arts, Bangladesh

TECHNICAL SKILLS

Python, Java, LaTeX, PostgreSQL, MySQL, C, C++, PHP, JavaScript, R, HTML