

Md Samiullah, PhD

Assistant Professor, Department of Computer Science and Engineering, University of Dhaka



Contact

Address

75, Agamasi lane, Dhaka-1000

Phone

+88 01791 55 79 44

Email

samiullahmdsami@gmail.com

Linkedin

www.linkedin.com/in/md-samiullah



Skills

Academic Research

- o Artificial Intelligence
- o Bayesian Network
- o Probabilistic Analysis
- o Machine Learning
- o Data & Pattern mining



Software

- o Hugin expert
- o Netica, BARD
- o Latex, Weka
- o Oracle DBMS

Operating Systems

DOS, Windows, Linux, Mac



Various Roles

- o Reviewer in quality conferences and journals
- o Senior Academic Staff, 2018-2019, For units FIT1045, FIT9133, Faculty of IT, Monash University
- o Member, Syllabus and Curriculum development committee, For units FIT1045, FIT9133, Faculty of IT, Monash University
- o Member, Academic Integrity Committee, For units FIT1045, FIT9133, Faculty of IT, Monash University
- o Member, Syllabus design committee for Machine Learning Track, Department of computer Science and



Work History

- Nov, 2020 - **Assistant Professor, Computer Science**
University of Dhaka, Bangladesh
- Present
University of Dhaka, Bangladesh
- Feb, 2013 - **Lecturer, Computer Science**
Nov, 2020
University of Dhaka, Bangladesh
- Feb, 2016 - **Graduate Research Student**
Apr, 2020
Faculty of IT, Monash University, Australia
- Jun, 2016 - **Research Assistant**
Dec, 2019
Faculty of IT, Monash University, Australia
- Jun, 2011 - **Lecturer, Computer Science**
Feb, 2013
Daffodil International University, Bangladesh
- Feb, 2011 - **Lecturer, Computer Science**
May, 2011
City University, Bangladesh



Education

- Feb, 2016 - **Doctor of Philosophy**
Apr, 2020
Faculty of IT, Monash University, Australia
Thesis: <https://tinyurl.com/snpvgoa>
- Nov, 2010 - **Master of Science (Computer Science)**
Jun, 2012
University of Dhaka, Bangladesh
CGPA: 3.94 (Scale 4.0)
Thesis: <https://tinyurl.com/vrx8khn>
- Apr, 2006 - **Bachelor of Science with Honours (Computer Science)**
Oct, 2010
University of Dhaka, Bangladesh
CGPA: 3.69 [Scale 4.0]
Secured 3rd position



Accomplishment

- o Postgraduate Publication Award 2019, FIT, Monash University
- o Travel grant from ABNMS to attend ABNMS 2018 Conference in Adelaide, Australia
- o Travel grant to attend ICTAI 2017 in Boston, USA
- o Australian Postgraduate Award: Monash University (Attained)

- Engineering, University of Dhaka
- o Adjunct faculty: East West Univ., Ahsanullah Univ. of Science & Tech., Green Univ.



Taught Courses

Monash University

- o FIT 1045: Algorithms and Programming Fundamentals in python
- o FIT 1008: Introduction to Computer Science
- o FIT 2004: Algorithms and Data structures
- o FIT 2100: Operating systems
- o FIT 3080: Intelligent Systems
- o FIT 3139: Computational Science
- o FIT 5047: Intelligent Systems (Masters level)
- o FIT 5142: Advanced Datamining (Masters level)
- o FIT 5211: Algorithms and Data Structures (Masters level)
- o FIT 9133: Programming Foundations in Python (Masters level)

University of Dhaka

- o Introduction to Data Science
- o Machine learning & Data mining
- o Compiler Design
- o Advanced database management
- o Software design pattern
- o Operating System
- o Theory of Automata/ Computations and Languages
- o Data Structures
- o Design and Analysis of Algorithms



Research Experience

Publications (25)

Journals:11
[DBLP indexed 10]
Conferences: 8
[DBLP indexed 6]

- o International Postgraduate Research Scholarship (IPRS): Monash University (Attained)
- o Merit Scholarship (in B.Sc.) in the University of Dhaka (Held in 2009)



Theses

PhD Thesis

1. **M Samiullah (2020)**, "iOOBN: An Object-Oriented Bayesian Network Modelling Framework with Inheritance", PhD Thesis, Clayton School of Information Technology, Monash University, Australia

MS Thesis

1. **M. Samiullah**, "An efficient approach to mine correlated graphs", M.Sc. Thesis, Department of Computer Science & Engineering, University of Dhaka, Bangladesh, 2012



Research Publications

International Journals

2. S Akther, MR Karim, **M Samiullah**, CF Ahmed, "Mining non-redundant closed flexible periodic patterns", Engineering Applications of Artificial Intelligence (Elsevier), Vol. 69, pp. 1-23, 2018.
Impact Factor: 4.201 **Citation:** 6
3. AK Chanda, CF Ahmed, **M Samiullah**, CKS Leung, "A new framework for mining weighted periodic patterns in time series databases", Expert System with Applications (Elsevier), Vol. 79, pp. 207-224, 2017.
Impact Factor: 5.452 **Citation:** 24
4. S Halder, **M Samiullah**, Y-K Lee, "Supergraph based periodic pattern mining in dynamic social networks", Expert System with Applications (Elsevier), Vol. 72, pp. 430-442, 2017.
Impact Factor: 5.452 **Citation:** 22
6. AU Ahmed, CF Ahmed, **M Samiullah**, N Adnan, CKS Leung, "Mining interesting patterns from uncertain databases", Information Sciences (Elsevier), Vol. 354, pp. 60-85, 2016.
Impact Factor: 5.524 **Citation:** 23
7. **M Samiullah**, CF Ahmed, A Fariha, MR Islam, N Lachiche, "Mining frequent correlated graphs with a new measure", Expert Systems with Applications (Elsevier), Vol. 41, Issue 4, pp. 1847-1863, 2014.
Impact Factor: 5.452 **Citation:** 8
8. A Fariha, CF Ahmed, CKS Leung, **M Samiullah**, S Pervin and L Cao, "A New Framework for Mining

Theses: 2 o PhD o MS
Reports (Project/Technical):
o Final year BSC project
o Technical report on
iOOBN software
Workshop papers: 1

DBLP:

- o <https://tinyurl.com/rrs885n>
- o <https://tinyurl.com/vnea3tg>

Scholar:

- o <https://tinyurl.com/u92ce6l>

Review

Sinc e	Venue
2015	International Journal of Data Science and Analytics
2017	IEEE Transactions on Systems, Man and Cybernetics: Systems
2018	IEEE access
2020	ECML-PKDD
2020	IEEE Transactions on Neural Networks and Learning Systems



Reference 1

Dr. David Albrecht
Former Deputy Dean Education
Faculty of IT,
Monash University
Phone: +61 438 939 877
Email: dwalbrecht724@gmail.com



Reference 2

Dr. Chowdhury Farhan Ahmed
Professor
Dept of Computer Science &
Engineering
University of Dhaka
Phone: 880 1911 701447
Email: farhan@du.ac.bd

Frequent Interaction Patterns from Meeting Databases", Engineering Applications of Artificial Intelligence (Elsevier), Vol. 45, pp. 103–118, 2015.

Impact Factor: 4.201 **Citation:** 13

9. A K Chanda, S Saha, MA Nishi, **M Samiullah**, CF Ahmed, "An efficient approach to mine flexible periodic patterns in time series databases", Engineering Applications of Artificial Intelligence (Elsevier), Vol. 44, pp. 44–63, 2015.

Impact Factor: 4.201 **Citation:** 24

11. MA Nishi, CF Ahmed, **M Samiullah**, and BS Jeong, "Effective periodic pattern mining in time series databases", Expert Systems with Applications (Elsevier), Vol. 40, Issue 8, pp. 3015–3027, 2013.

Impact Factor: 5.452 **Citation:** 40

International Conferences

1. **M Samiullah**, TX Hoang, D Albrecht, A Nicholson, K Korb, "iOOBN: A Bayesian Network Modelling Tool Using Object Oriented Bayesian Networks with Inheritance", ICTAI, pp. 1218-1225, 2017.
Core Rank: B **Citation:** 1
2. T Alam, SA Zahin, **M Samiullah**, CF Ahmed, "An Efficient Approach for Mining Frequent Subgraphs", International Conference on Pattern Recognition and Machine Intelligence (Springer), pp. 486-492, 2017.
Core Rank: NA **Citation:** 4
4. CF Ahmed, **M. Samiullah**, N Lachiche, M Kull, PA Flach: "Reframing in Frequent Pattern Mining", ICTAI 2015: 799-806
Core Rank: B **Citation:** 4
6. R Sultana, D Showkat, **M Samiullah**, and AR Chowdhury, "Reconstructing Gene Regulatory Network with Enhanced Particle Swarm Optimization", in the proceedings of ICONIP 2014, Part II, LNCS 8835, pp. 229–236, 2014.in Sydney, Australia. Publisher: Springer International Publishing Switzerland (LNCS)
Core Rank: A **Citation:** 5