

Sabiha Salma

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RESEARCH INTEREST

Human Computer Interaction, Software Engineering, AI for Software Engineering, AI for Education

EDUCATION

MS in Computer Science, *George Mason University* 2024
Thesis Advisor: Dr. Kevin Moran
BS in Computer Science, *University of Dhaka* 2014
Thesis Advisor: Dr. Shaily Kabir

RESEARCH EXPERIENCE

Ongoing Collaborative Research, *George Mason University* Fall 2025 – Present
Title: The Impact of Agentic AI-based Time Management Tools on Students Academic Success
Faculty Members: Dr. Zhichong Lu, Dr. Ghada Adam Abdelmoumin, Dr. Shahnaz Kamberi
Graduate Research Assistant, *Sage Lab* Summer 2021 – Summer 2024
Projects: Software Evolution, Principles of Ethical Software Design, Exploration of LLMs for Software Testing
Advisor: Dr. Kevin Moran
Independent Research Study, *George Mason University* Spring 2021
Title: Human-Computer Interaction for Building User Interfaces
Advisor: Dr. Kevin Moran
Data Science Research, *University of Dhaka* Fall 2015 – Summer 2016
Title: Monitoring Student Engagement through a Video based Learning Platform
Advisor: Dr. Amin Ahsan Ali

PUBLICATIONS

1. **Sabiha Salma**, S M Hasan Mansur, Yule Zhang, and Kevin Moran, “GuiEvo: Automated Evolution of Mobile App UIs”, in proceedings of the 21st International Conference on Mining Software Repositories (MSR 2024), Lisbon, Portugal, April 15th-16th, 2024.
2. Kesina Baral, Jack Johnson, Junayed Mahmud, **Sabiha Salma**, Mattia Fazzini, Julia Rubin, Jeff Offutt, and Kevin Moran, “Automating GUI-based Test Oracles for Mobile Apps”, in proceedings of the 21st International Conference on Mining Software Repositories (MSR 2024), Lisbon, Portugal, April 15th-16th, 2024.
3. S M Hasan Mansur, **Sabiha Salma**, Damilola Awofisayo, Kevin Moran (2022). AidUI: Toward Automated Recognition of Dark Patterns in User Interfaces. In The 45th IEEE/ACM International Conference on Software Engineering (ICSE 2023), Melbourne, Australia, May 14th-20th, 2023.
4. Shahnila Zaman, **Sabiha Salma**, Shaily Kabir. Efficient Grouping of Tourism Webpages Considering Ratings and Reviews. International Journal of Computer Science, Information Technology, and Security (ISSN 2249-9555), vol.4, no.3, pp.55-60, 2014.

PROFESSIONAL SERVICES

Junior Program Committee

- 22nd International Conference on Mining Software Repositories (MSR 2025)
- 21st International Conference on Mining Software Repositories (MSR 2024)

External Reviewer

- 47th International Conference on Software Engineering (ICSE 2025)
- 45th International Conference on Software Engineering (ICSE 2023)
- 30th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER 2023)

- 37th IEEE/ACM International Conference on Automated Software Engineering (ASE 2022)
- 29th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER 2022)
- 29th IEEE/ACM International Conference on Program Comprehension (ICPC 2021)
- 18th Mining Software Repositories (MSR 2021)

Co-Reviewer

- 19th Mining Software Repositories (MSR 2022))

TEACHING EXPERIENCE

Graduate Teaching Assistant, *George Mason University* Fall 2018 – Spring 2021, Fall 2024 - Present

Courses: Object Oriented Programming, Data Structures, Software Engineering for World Wide Web

- Led a team of TAs to ensure cohesive collaboration, and proper evaluation and assessment of student projects.
- Facilitated interactive learning environments through lab sessions
- Provided personalized assistance to students during regularly scheduled in-person and virtual office hours

Lecturer (Instructor of Record), *State University of Bangladesh* Summer 2017 – Spring 2018

Courses: Algorithms, Automata Theory, Image Processing, Discrete Mathematics, Programming Fundamentals

- Formulated engaging lesson plans, led lab sessions, and assessed student performance in exams and projects
- Offered guidance and mentorship to students, addressing academic concerns and providing career advice
- Organized programming contests

Lecturer (Instructor of Record), *The Millennium University Bangladesh* Fall 2016 - Spring 2017

Courses: Image Processing, Discrete Mathematics

- Assessed student performance providing detailed feedback to support academic growth

HONORS & AWARDS

Outstanding Graduate Teaching Assistant Award, *George Mason University* 2021

Distinguished Graduate Teaching Assistant Award, *George Mason University* 2020

Summer Research Initiation Award, *George Mason University* 2020

CRA-W Grad Cohort 2020 Travel Award, *Computing Research Association for women* 2020

ICT Fellowship, *Bangladesh Government (equivalent of NSF Graduate Research Fellowship)* 2016

National Education Board Scholarship, *National Education Board of Bangladesh* 2015, 2007

ACADEMIC AFFILIATIONS

Association for Computing Machinery (ACM) 2021 – Present

Bangladeshi Graduate Students Association (BDGSA), *George Mason University* 2018 – Present

Ahmadiyya Muslim Student Association for Women (AMSAW), *George Mason University* 2018 – Present

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, HTML5, CSS3

Developer Tools & Frameworks: Android Studio, Jupyter Notebook, Eclipse, Git, JUnit

Libraries: Keras, TensorFlow, Scikit-Learn, Pandas, NumPy, Matplotlib

Documentation System: LaTeX

REFERENCES

Associate Professor Elizabeth White

Department of Computer Science

School of Computing, George Mason University

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Fairfax, VA 22030, USA

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Phone: (703) 993-1586

Assistant Professor Kevin Moran

Department of Computer Science

University of Central Florida

Room 217A, L3Harris Engineering Center

Orlando, FL 32816, USA

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