TASFIA ZAHIN

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EDUCATION

The Pennsylvania State University Pennsylvania, USA
Ph.D. Candidate, Computer Science and Engineering 2021 - Present
- Advisor: Dr. Mingfu Shao
- Research area: Computational Biology

Bangladesh University of Engineering and Technology (BUET) Dhaka, Bangladesh
BS.c. in Computer Science and Engineering 2015 - 2019
- CGPA: 3.90/4.00

WORK EXPERIENCE

The Pennsylvania State University Pennsylvania, USA
Graduate Research/Teaching Assistant 2021 - Present

Ahsanullah University of Science and Technology (AUST) Dhaka, Bangladesh
On study leave, Department of Computer Science and Engineering 2019 - Present

Dhanmondi Tutorial Dhaka, Bangladesh
Teacher 2019

PUBLICATIONS

1. Zhezheng Song*, **Tasfia Zahin***, Xiang Li, Mingfu Shao. Accurate Detection of Tandem Repeats from Error-Prone Sequences with EquiRep. *Research in Computational Molecular Biology (RECOMB)*, 2025.
   * Equal Contribution

2. **Tasfia Zahin**, Md Hasin Abrar, Mizanur Rahman Jewel, Tahrina Tasnim, Md Shamsuzzoha Bayzid, Atif Rahman. An alignment-free method for phylogeny estimation using maximum likelihood. *BMC Bioinformatics*, 2025.

3. **Tasfia Zahin**, Qian Shi, Carl Zang, Mingfu Shao. Accurate Assembly of Circular RNAs with TERRACE. *Genome Research*, 2024.

4. **Tasfia Zahin**, Qian Shi, Carl Zang, Mingfu Shao. Accurate Assembly of Circular RNAs with TERRACE. *Research in Computational Molecular Biology (RECOMB)*, 2024.

TECHNICAL SKILLS

Languages: C++, C, Python, Java, MATLAB, Assembly (Intel 8086)

Scripting Languages: LaTeX, Bash

Deep Learning Libraries: Keras, Pytorch

Database Language: SQL, PL/SQL

Hardware: Proteus, Atmel Studio, Arduino

ACADEMIC EXPERIENCES

- Research presenter at RECOMB 2025
- Research presenter at RECOMB 2024
- Sub-reviewer of *RECOMB 2025*, *RECOMB 2024*, *ISMB 2024*, *WABI 2024*, *WABI 2023*, *RECOMB 2022*, *ACM-BCB 2022*
- Volunteer at the 2024 Workshop on Emerging Methods for Sequence Analysis (WEMSA 2024) organized by The Pennsylvania State University.
- Research presenter at the 2023 Workshop on Emerging Methods for Sequence Analysis (WEMSA 2023) organized by The Pennsylvania State University.
- Attendee of ISMB 2022 Conference at Madison, Wisconsin.
- Attendee of RECOMB 2020 Virtual Conference.
- Member of BUET CS Bioinformatics group, a platform for sharing ideas and related research topics.

OTHER
EXPERIENCES

- Member of IT support sub-committee, The 23rd International Conference on Computer and Information Technology (ICCIT) 2020, hosted by Ahsanullah University of Science and Technology (AUST)
- Member of executive committee, Ahsanullah University of Science and Technology (AUST) Robotics Club
- Mentor of Bangladeshi Women in Computer Science and Engineering (BWCSE) mentor-mentee program
- Member of Bangladeshi Women in Computer Science and Engineering (BWCSE), Bangladesh University of Engineering and Technology (BUET)
- Delegate of Bangladesh Youth Leadership Summit 2016
- Adjudicator of BRAC Inter-University Debate Competition 2016
- Member of Bangladesh University of Engineering and Technology (BUET) Debating Club
- Media and Publication Secretary of English Medium Buetian's Association (EMBA), Bangladesh University of Engineering and Technology (BUET)

AWARDS
AND
HONORS

- **Winner of Huawei Seeds for the Future 2019**, Travel Grant by Huawei Technologies
- **Dean's List Honor**, Bangladesh University of Engineering and Technology (BUET)
- **Daily Star O and A Level Award of Excellence**, The Daily Star Newspaper, Bangladesh

REFERENCE

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Associate Professor
Department of Computer Science and Engineering
Bangladesh University of Engineering and Technology (BUET)
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