

EDUCATION	<b>The Pennsylvania State University</b> <i>Ph.D. Candidate, Computer Science and Engineering</i> <ul style="list-style-type: none"> <li>• Advisor: Dr. Mingfu Shao</li> <li>• Research area: Computational Biology</li> </ul>	Pennsylvania, USA 2021 - Present
	<b>Bangladesh University of Engineering and Technology (BUET)</b> <i>BS.c. in Computer Science and Engineering</i> <ul style="list-style-type: none"> <li>• CGPA: 3.90/4.00</li> </ul>	Dhaka, Bangladesh 2015 - 2019
WORK EXPERIENCE	<b>The Pennsylvania State University</b> <i>Graduate Research/Teaching Assistant</i>	Pennsylvania, USA 2021 - Present
	<b>Ahsanullah University of Science and Technology (AUST)</b> <i>On study leave, Department of Computer Science and Engineering</i>	Dhaka, Bangladesh 2019 - Present
	<b>Dhanmondi Tutorial</b> <i>Teacher</i>	Dhaka, Bangladesh 2019
PUBLICATIONS	<ol style="list-style-type: none"> <li>1. Zhezheng Song*, <b>Tasfia Zahin*</b>, Xiang Li, Mingfu Shao. Accurate Detection of Tandem Repeats from Error-Prone Sequences with EquiRep. <i>Research in Computational Molecular Biology (RECOMB)</i> 2025. * <i>Equal Contribution</i></li> <li>2. <b>Tasfia Zahin*</b>, Md Hasin Abrar*, Mizanur Rahman Jewel, Tahrina Tasnim, Md Shamsuzzoha Bayzid, Atif Rahman. An alignment-free method for phylogeny estimation using maximum likelihood. <i>BMC Bioinformatics</i>, 2025. * <i>Equal Contribution</i></li> <li>3. <b>Tasfia Zahin</b>, Qian Shi, Carl Zang, Mingfu Shao. Accurate Assembly of Circular RNAs with TERRACE. <i>Genome Research 2024, Research in Computational Molecular Biology (RECOMB)</i> 2024.</li> </ol>	
TECHNICAL SKILLS	<b>Languages:</b> C++, C, Python, Java, MATLAB, Assembly (Intel 8086) <b>Scripting Languages:</b> $\LaTeX$ , Bash <b>Genome Browser:</b> Integrative Genome Browser (IGV) <b>Deep Learning Libraries:</b> Keras, Pytorch <b>Database Language:</b> SQL, PL/SQL <b>Hardware:</b> Proteus, Atmel Studio, Arduino	
ACADEMIC EXPERIENCES	<ul style="list-style-type: none"> <li>• Research and poster presenter at RECOMB 2025.</li> <li>• Research presenter at RECOMB 2024.</li> <li>• Sub-reviewer of <i>RECOMB 2025</i>, <i>RECOMB 2024</i>, <i>ISMB 2024</i>, <i>WABI 2024</i>, <i>WABI 2023</i>, <i>RECOMB 2022</i>, <i>ACM-BCB 2022</i>.</li> <li>• Volunteer at the 2024 Workshop on Emerging Methods for Sequence Analysis (WEMSA 2024) organized by The Pennsylvania State University.</li> <li>• Research presenter at the 2023 Workshop on Emerging Methods for Sequence Analysis (WEMSA 2023) organized by The Pennsylvania State University.</li> <li>• Attendee of ISMB 2022 Conference at Madison, Wisconsin.</li> <li>• Attendee of RECOMB 2020 Virtual Conference.</li> <li>• Member of BUET CS Bioinformatics group, a platform for sharing ideas and related research topics.</li> </ul>	

## 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, Bangladesh University of Engineering and Technology (BUET).
- 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**, 2015-2019, Bangladesh University of Engineering and Technology (BUET).
- **Daily Star O and A Level Award of Excellence**, 2012 and 2014, The Daily Star Newspaper, Bangladesh.

## REFERENCE

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