

EDUCATION	The Pennsylvania State University	Pennsylvania, USA
	<i>Ph.D. Candidate, Computer Science and Engineering</i> <ul style="list-style-type: none"> • Advisor: Dr. Mingfu Shao • Research area: Computational Biology 	2021 - Present
	Bangladesh University of Engineering and Technology (BUET)	Dhaka, Bangladesh
	<i>BS.c. in Computer Science and Engineering</i> <ul style="list-style-type: none"> • CGPA: 3.90/4.00 	2015 - 2019
WORK EXPERIENCE	The Pennsylvania State University	Pennsylvania, USA
	<i>Graduate Research/Teaching Assistant</i>	2021 - Present
	Ahsanullah University of Science and Technology (AUST)	Dhaka, Bangladesh
	<i>On study leave, Department of Computer Science and Engineering</i>	2019 - Present
	Dhanmondi Tutorial	Dhaka, Bangladesh
	<i>Teacher</i>	2019
PUBLICATIONS	<ol style="list-style-type: none"> 1. Irtesam Mahmud Khan, Xiaofei Carl Zang, Ange Teng, Tasfia Zahin, Mingfu Shao. Boosting Transcript Assembly via Delineating Transcript Start and End Sites. <i>bioRxiv</i>, 2025. 2. Zhezhen Song*, Tasfia Zahin*, Xiang Li, Mingfu Shao. Accurate Detection of Tandem Repeats from Error-Prone Sequences with EquiRep. <i>Genome Research</i>, 2025. * <i>Equal Contribution</i> 3. Zhezhen Song*, Tasfia Zahin*, Xiang Li, Mingfu Shao. Accurate Detection of Tandem Repeats from Error-Prone Sequences with EquiRep. <i>Proceedings of 29th International Conference on Research in Computational Molecular Biology (RECOMB 2025)</i>. * <i>Equal Contribution</i> 4. Tasfia Zahin*, Md Hasin Abrar*, Mizanur Rahman Jewel, Tahrina Tasnim, Md Sham-suzzoha Bayzid, Atif Rahman. An alignment-free method for phylogeny estimation using maximum likelihood. <i>BMC Bioinformatics</i>, 2025. * <i>Equal Contribution</i> 5. Tasfia Zahin, Qian Shi, Carl Zang, Mingfu Shao. Accurate Assembly of Circular RNAs with TERRACE. <i>Genome Research</i>, 2024. 6. Tasfia Zahin, Qian Shi, Carl Zang, Mingfu Shao. Accurate Assembly of Circular RNAs with TERRACE. <i>Proceedings of 28th International Conference on Research in Computational Molecular Biology (RECOMB 2024)</i>. 	
TECHNICAL SKILLS	<p>Languages: C++, C, Python, Java, MATLAB, Assembly (Intel 8086)</p> <p>Scripting Languages: L^AT_EX, Bash</p> <p>Genome Browser: Integrative Genome Browser (IGV)</p> <p>Deep Learning Libraries: Keras, Pytorch</p> <p>Database Language: SQL, PL/SQL</p> <p>Hardware: Proteus, Atmel Studio, Arduino</p>	

ACADEMIC EXPERIENCES	<ul style="list-style-type: none"> • Research and poster presenter at RECOMB 2025. • Research presenter at RECOMB 2024. • 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>. • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p>Dr. Mingfu Shao <i>Associate Professor</i> Department of Computer Science and Engineering The Pennsylvania State University W205A Westgate Building University Park, PA 16802 Email: mxs2589@psu.edu</p> <p>Dr. Atif Hasan Rahman <i>Associate Professor</i> Department of Computer Science and Engineering Bangladesh University of Engineering and Technology (BUET) ECE Building, West Palashi, Dhaka-1000, Bangladesh Email: atif@cse.buet.ac.bd</p>