

Tahsinur Rahman Khan

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Professional Summary

An accomplished and dependable doctoral researcher and teaching assistant who is looking to join an active and dynamic Computer Science department as a teaching fellow with potential long-term commitment. As a skilled scientific communicator with a track record of delivering effective tutorial lectures and lab sessions for university level Computer Science and Engineering modules, I am dedicated to helping students reach their full potential in their academic pursuits. As a potential member of the department, I would be willing to partner with fellow academics and researchers to design and develop outreach activities and contribute towards writing and applying for grants.

Education

University of Nottingham PhD, Engineering Research Dept	Oct 2020 - Present
University of Nottingham AFHEA Level 1	March 2022 – Present
University of Nottingham MRes Geospatial Data Science Grade: 2:1 (Merit)	Oct 2019 – Sept 2020
University of Nottingham MSc Computer Science Grade: 2:1 (Merit)	Sept 2018 – Sept 2019
Iowa State University, Ames, Iowa BSc Electrical Engineering CGPA: 3.26/4	Graduation: May 2017

Teaching and Research Experience

Teaching Assistant School of Computer Science	University of Nottingham Feb 2021 – Present
<ul style="list-style-type: none">• Deliver tutorial lectures and lab sessions for first, second and fourth year modules• Contribute to marking exams and courseworks and provide constructive feedback to students• Ensure fairness and adherence to the policies set out in the Quality Assurance framework developed by the University• Provide hybrid learning experience for students• Assist with the department's outreach activities• Modules provided support for include:<ul style="list-style-type: none">▪ Programming Paradigms (COMP1009)▪ Mathematics for Computer Science 2 (COMP1043)▪ Languages and Computation (COMP2012)▪ Data Modelling and Analysis (COMP4030)▪ Autonomous Robotic Systems (COMP 4034)▪ Fuzzy Logic and Systems (COMP4033)	
Maths Support Tutor Faculty of Engineering	University of Nottingham Feb 2020 – Dec 2020
<ul style="list-style-type: none">• Provided supplemental lectures to first year engineering students enrolled in <i>Mathematics for Engineers</i> module (MMME1026)• Designed lecture content to cater to the needs of different levels of learners• Regularly communicated with the module convenors to report students' progression and help identify students requiring additional support• Monitored students' performances and provide improvement report to the faculty office	

Research Assistant

Horizon Research Institute

University of Nottingham

March 2019 – Sept 2019

- Initiated research on graph-based machine learning models for smart lexicon expansion that can be used across domains for sentiment analysis
- Researched automated techniques to identify spam and dishonesty in human annotation of lexical dataset
- Developed expertise on using the Computer Vision Lab's (Computer Science Department) GPU computing cluster based on Linux CentOS distribution

Data Annotation Assistant

Computer Vision Lab

University of Nottingham

Jan 2019 – March 2019

- Followed standard scientific data annotation techniques for per-frame labelling of videos with a set of pre-defined actions.
- Required precise attention to details as pre-processed data was used for commercial grade Machine Learning application.

Instructor's Assistant

Electrical and Computer Engineering Dept

Iowa State University

Aug 2016 – Dec 2016

- Advised students on third year design projects (EE/CPRE 391)
- Marked in-class work sheets related to students' projects

Supplemental Instruction Tutor

Academic Success Centre

Iowa State University

Aug 2015 – July 2016

- Developed and implemented comprehensive lesson plans that supported the academic needs of students with diverse academic background, including mature students
- Modules tutored include:
 - Introduction to Probability (MATH104)
 - Introduction to University Algebra (MATH110)
 - Physics for Life Sciences (PHYS115)
 - Classic Physics I (PHYS221)

Professional Experience**Founder and Curriculum Lead**

Hessix LLC

Dhaka, Bangladesh

Oct 2017 – Present

- An educational initiative to train local learners in technical subjects to support the growing technology industry in Bangladesh
- Developed curriculum in Data Science, Programming (Algorithms and Data Structures) and Web Development
- Manage finances and partnerships with industry and local NGOs
- Graduated two students from the programme

Facilities Management Administrator

Computer Science Department

Iowa State University

June 2017 – Sept 2017

- Worked with technical, administrative and academic staff to manage day to day operation of departmental facilities that served more than 800 students on a daily basis
- Schedule and keep records of maintenance work and facilities usage for various purposes
- Maintain financial records for the department and vendors
- Troubleshoot lab and lecture hall devices
- Supervise a group of six lab monitors for afterhours technical and student support

Electrical Engineering Intern – Hardware Testing

Ag Leader Technology

Ames, Iowa

May 2015 – August 2015

- Developed GUI based program using CVI for controlling industrial grade hardware testing device.

- Programmed 32 bit micro controller for automating hardware testing of circuits on PCBs
- Performed electrical hardware testing on prototype circuit boards.

Volunteer Experience

Reading Group Convenor

Robotics Lab

University of Nottingham

Dec 2021 – Present

- Host bi-weekly workshops on Reinforcement Learning
- Curate syllabus on topics covering basics of RL, Mathematical Optimization and Deep RL; covered throughout the academic year
- Collaborate with participants – mainly composed of PhD students, research associates and academics, to help integrate RL in existing research
- Compile feedback and develop lecture materials to integrate topics from various sources as part of initial plan on introducing Reinforcement Learning as a standalone module in UoN Computer Science curriculum

Academic Seminar Co-Convenor

Nottingham Geospatial Institute

University of Nottingham

July 2020 – Present

- Host bi-weekly talks from researchers and academics on geospatial research
- Establish professional links with external academic and industrial partners to join in the seminars as guest speakers

Resident Tutor

Lenton and Wortley Hall

University of Nottingham

Nov 2018 – Aug 2021

- Provided pastoral care support to first year undergraduate students for three academic years
- Organized activities such as formal dinners, sports events, quizzes and game nights.
- Implemented University of Nottingham Residence Halls policies and help maintain pleasant social atmosphere at Lenton & Wortley Hall
- Served as Senior Resident Tutor from October 2020 to August 2021

Language Skills

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| • English
(Fluent) | • Bengali
(Native) | • Hindi
(Conversational) |
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