

Bishwamittra Ghosh

Curriculum Vitae

Personal Details

Contact Address: COM2-01-09, 15 Computing Dr, Singapore 117418, Singapore

Email: bghosh@u.nus.edu

Phone: +65 85990160

Date of Birth: 28 November 1995

Website: <https://bishwamittra.github.io>

Research Interest

My research interest is in deploying machine learning in high-stake decision-making. I apply formal methods to verify and improve safety-critical properties such as fairness, interpretability, and explainability in machine learning.

Education

National University of Singapore, Singapore

2018 - Present

Ph.D. candidate in School of Computing

Bangladesh University of Engineering and Technology, Bangladesh

2013 - 2017

BSc. with Honors degree in Computer Science and Engineering

Selected Publications

- [1] [Algorithmic Fairness Verification with Graphical Models](#)
Bishwamittra Ghosh, Debabrota Basu, Kuldeep S. Meel
Proceedings of AAAI, 2022
- [2] [Justicia: A Stochastic SAT Approach to Formally Verify Fairness](#)
Bishwamittra Ghosh, Debabrota Basu, Kuldeep S. Meel
Proceedings of AAAI, 2021
- [3] [A MaxSAT-based Framework for Group Testing](#)
Lorenzo Ciampiconi, **Bishwamittra Ghosh**, Jonathan Scarlett, Kuldeep S. Meel
Proceedings of AAAI, 2020
- [4] [IMLI: An Incremental Framework for MaxSAT-Based Learning of Interpretable Classification Rules](#)
Bishwamittra Ghosh, Kuldeep S. Meel
Proceedings of AIES, 2019
- [5] [The Flexible Socio Spatial Group Queries](#)
Bishwamittra Ghosh, Mohammed Eunus Ali, Farhana M. Choudhury, Sajid Hasan Apon, Timos Sellis, Jianxin Li
Proceedings of the VLDB Endowment (PVLDB), 2019

Professional Experiences

Conference Talks

AAAI-2022, AAAI-2021, AAAI-2020, ECAI-2020, CP-2019, VLDB-2019, IJCAI-2019, AIES-2019

PC Member

AAAI-2022, AIES-2022, NeurIPS-2021

Research Internship

- INRIA, Lille-Nord, France 2021
- Goldman Sachs, Singapore 2021
- Max Planck Institute For Software Systems, Kaiserslautern, Germany 2020

Graduate Assistant

School of Computing, National University of Singapore 2018 - 2021

Reference

Kuldeep S. Meel

Sung Kah Kay Assistant Professor

School of Computing, National University of Singapore, Singapore

Email: meel@comp.nus.edu.sg

Daniel Neider

Professor

Carl von Ossietzky Universität Oldenburg, Germany

Email: daniel.neider@uol.de

Debabrota Basu

Faculty

Scool, Inria, Lille-Nord, France

Email: debabrota.basu@inria.fr