Aman Timalsina

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Areas of specialisation

Topological Data Analysis and Machine Learning

Professional Experience

Present Graduate Research Assistant, Purdue University.
2021-2022 Research Assistant, SUNY Research Foundation.
2021-2022 Teaching Assistant, Department of Computer Science & Department of Mathematics, University at Buffalo.
2020-2021 Academic Tutor, Tutoring and Academic Support Services, University at Buffalo.
2018-2020 Student Assistant, CIT ITCS Field Services, University at Buffalo.
2017-2018 System and Network Intern, Open Learning Exchange, Nepal.

Education

Present Ph.D. in Computer Science, Purdue University (Advisor: Prof. Tamal K. Dey).
2022 B.A. in Computer Science and Mathematics, *Summa Cum Laude*, University at Buffalo.

Publications & talks

Preprints and Publications

2022 **Aman Timalsina** and Matthew G. Knepley, "Tetrahedralization of a Hexahedral Complex", *arXiv preprint arXiv:2206.12037*, 2022. Submitted.
2022 Albert Gu, Isys Johnson, **Aman Timalsina**, Atri Rudra, and Christopher Ré. "How to train your HiPPO: State space models with generalized orthogonal basis projections." *arXiv preprint arXiv:2206.12037*, 2022. Submitted.

Technical Presentation

2021 **Aman Timalsina**, "Using Gompertz Functions to Reduce the Runtime Complexity of an Agent-Based Epidemic Model", *Rose-Hulman Undergraduate Math Conference*, 2021.

Academic honours & awards

2022 Elected to *Phi Beta Kappa*.
2021 Hazel and John Wilson Scholarship Fund in Mathematics.
2021 College of Arts and Science Experiential Learning Scholarship.
2020 School of Engineering and Applied Science Fellowship.
2018 International Excelsior Scholarship, University at Buffalo.
2017 LAC Math Olympiad: 1st place, nation-wise Mathematics Olympiad.

Teaching

2022-2022 Teaching Assistant for CSE 331: Algorithms and Complexity, University at Buffalo.
2021-2022 Teaching Assistant for MTH 141: Calculus I, University at Buffalo.

Last updated: October 8, 2022