Alexander W. Lee

Curriculum Vitae

mail@alexanderwlee.com
https://alexanderwlee.com

Education

2018–2022 Amherst College
B.A. in Computer Science and Mathematics, *summa cum laude*
Thesis: DIFFUSR*: Distortion-Free Swap-Randomization for Statistically-Testing Data Mining Results*
Advisor: Matteo Riondato

Publications

All publications are available from https://alexanderwlee.com/publications

2023 Maryam Abuissa, **Alexander Lee**, and Matteo Riondato. ROHAN: Row-order agnostic null models for statistically-sound knowledge discovery. *Data Mining and Knowledge Discovery*, 37(4):16921718

2022 **Alexander Lee**, Stefan Walzer-Goldfeld, Shukry Zablah, and Matteo Riondato. A scalable parallel algorithm for balanced sampling (student abstract). In *Proceedings of the AAAI Conference on Artificial Intelligence*, volume 36, pages 12991–12992

Honors and Awards

2024 NSF Graduate Research Fellowship, National Science Foundation
National research fellowship for outstanding STEM graduate students

2022 The Computer Science Prize, Amherst College
Top student in computer science, based on honors thesis and overall achievement

2022 Phi Beta Kappa, Amherst College
National honor society

Industry Experience

2022–2024 Software Engineer, Microsoft
Developed product catalog services that power the company's commerce platforms

Summer '21 Software Engineer Intern, Microsoft
Built diagnostic tooling to debug issues in the business's product catalog services

Summer '20 Software Engineer Intern, Fidelity
Created call routing and productivity software for the company's contact centers

Summer '19 Software Engineer Intern, Health Sqyre
Refined the payment microservice for the startup's medical supplies marketplace

Presentations

2023	Maryam Abuissa and **Alexander Lee**. ROHAN: Row-order agnostic null models for statistically-sound knowledge discovery. ECML PKDD Plenary Session for the Best Journal Track Papers
2022	**Alexander Lee** and Stefan Walzer-Goldfeld. A scalable parallel algorithm for balanced sampling. AAAI Student Abstract and Poster Program

Teaching Experience

Teaching Assistant

2023–2024	AP CS Principles, Francis Marion School (Microsoft TEALS Program)
Fall '20	COSC 111: Introduction to Computer Science I, Amherst College
Fall '19	COSC 112: Introduction to Computer Science II, Amherst College

Peer Tutor

Spring '20	COSC 211: Data Structures, Amherst College
Spring '19	COSC 111: Introduction to Computer Science I, Amherst College

Leadership Experience

Spring '22	Tech Peer Mentor, Amherst College Center for International Student Engagement *Mentored a cohort of six international students interested in pursuing careers in tech*
Fall '20, Spring '21	President, Amherst College Association for Computer Machinery Student Chapter *Led alumni panels, interview prep sessions, and software engineering crash courses*

Undergraduate Coursework

Computer Science	Data Mining, Machine Learning, Artificial Intelligence, Evolutionary Computation, Distributed Algorithms, Parallel and Distributed Computing, Computer Security, Networks, Computer Architecture, Computer Systems, Algorithms, Data Structures, Introduction to Computer Science II, Introduction to Computer Science I
Mathematics	Probability, Real Analysis, Abstract Algebra, Linear Algebra, Discrete Mathematics, Multivariate Calculus, Intermediate Calculus, Introduction to Statistical Modeling

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