Alexander W. Lee

Curriculum Vitae

alexanderwlee@proton.me
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Education

B.A. Computer Science and Mathematics, Amherst College, 2022
Honors: *summa cum laude* (GPA: 4.0/4.0)
Thesis: DIFFUSR*: Distortion-Free Swap-Randomization for Statistically-Testing Data Mining Results*
Advisor: Matteo Riondato

Publications

All publications are available from 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

Presentations

2023 Maryam Abuissa and **Alexander Lee**. ROHAN: Row-order agnostic null models for statistically-sound knowledge discovery, ECML PKDD Best Journal Track Papers

2022 **Alexander Lee** and Stefan Walzer-Goldfeld. A scalable parallel algorithm for balanced sampling, AAAI Student Abstract and Poster Program

Honors and Awards

2022 Phi Beta Kappa, Amherst College
America's most prestigious academic honor society

2022 The Computer Science Prize, Amherst College
Awarded to the top student in computer science, based on honors thesis and overall performance

Industry Experience

August 2022–	Software Engineer, Microsoft
Summer 2021	Software Engineer Intern, Microsoft
Summer 2020	Software Engineer Intern, Fidelity Investments
Summer 2019	Software Engineer Intern, Health Sqyre

Teaching Experience

Teaching Assistant

August 2023–	AP Computer Science Principals, Francis Marion School (Microsoft TEALS Program)
Fall 2020	COSC 111: Introduction to Computer Science I, Amherst College
Fall 2019	COSC 112: Introduction to Computer Science II, Amherst College

Peer Tutor

Spring 2020	COSC 211: Data Structures, Amherst College
Spring 2019	COSC 111: Introduction to Computer Science I, Amherst College

Leadership Experience

Fall, Spring 2022	President, Amherst College Computer Science Club

Undergraduate Coursework

Computer Science	Data Mining, Artificial Intelligence, Machine Learning, 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