

Alexander W. Lee

Curriculum Vitae

alexanderwlee@proton.me
alexanderwlee.com

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

Honors and Awards

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

August '22– Software Engineer, Microsoft
Developing services that power major storefronts, such as Azure, Xbox, and Office

Summer '21 Software Engineer Intern, Microsoft
Built tooling to diagnose configuration issues in the business's product catalog

Summer '20 Software Engineer Intern, Fidelity Investments
Created software solutions for the company's contact centers

Summer '19 Software Engineer Intern, Health Sqyre
Refined microservices for the startup's medical devices e-commerce platform

Teaching Experience

Teaching Assistant

August '23–	AP CS Principals, 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 <i>Mentored a cohort of six international students interested in pursuing careers in tech</i>
Fall '20, Spring '21	President, Amherst College Computer Science Club <i>Led alumni panels, interview prep sessions, and software engineering crash courses</i>

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

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

The latest revision of this CV is available from alexanderwlee.com/assets/pdf/Alexander_W_Lee_CV.pdf
This revision was created on November 21, 2023