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: 3.95/4.00)
              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 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

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 *Mentored a cohort of six international students interested in pursuing careers in tech*
Fall '20, Spring '21	President, Amherst College Computer Science Club *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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