

# 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 The Computer Science Prize, Amherst College

2022 Phi Beta Kappa, Amherst College

## Industry Experience

August ‘22– Software Engineer, Microsoft

Summer ‘21 Software Engineer Intern, Microsoft

Summer ‘20 Software Engineer Intern, Fidelity Investments

Summer ‘19 Software Engineer Intern, Health Sqyre

## Teaching Experience

### Teaching Assistant

August '23–	AP Computer Science Principals, Francis Marion School (Microsoft Technology Education and Learning Support 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	Mentor of Careers in Technology, Amherst College Center for International Student Engagement
Fall '20, Spring '21	President, Amherst College Computer Science Club

## 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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