

# Alexander W. Lee

## Curriculum Vitae

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### 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

### Industry Experience

2022–2024 Software Engineer, Microsoft  
*Developed 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*

### Publications

All publications are available from [alexanderwlee.com/publications](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*

## 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 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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This revision was created on June 5, 2024