Alexander W. Lee

Curriculum Vitae

alexander_w_lee@brown.edu https://alexanderwlee.com

Education

2024– Brown University

Ph.D. in Computer Science Advisor: Uğur Çetintemel

2018–2022 Amherst College

B.A. in Computer Science and Mathematics, *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 https://alexanderwlee.com/publications

[1] Maryam Abuissa, **Alexander Lee**, and Matteo Riondato. "ROHAN: Row-order ag-

nostic null models for statistically-sound knowledge discovery". In: *Data Mining and Knowledge Discovery* 37.4 (2023), pp. 1692–1718. DOI: 10.1007/s10618-

023-00938-4.

[2] 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*. Vol. 36. 11. 2022,

pp. 12991-12992. DOI: 10.1609/aaai.v36i11.21632

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

Industry Experience

2022–2024 Software Engineer, Cloud + AI, Microsoft

Developed product catalog services that power the company's commerce platforms

Summer '21 Software Engineer Intern, Cloud + AI, Microsoft

Built diagnostic tooling to debug issues in the business's product catalog services

Summer '20 Software Engineer Intern, Fidelity

Created call routing and productivity software for the company's contact centers

Summer '19 Software Engineer Intern, Health Sqyre

Refined the payment microservice for the startup's medical supplies marketplace

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 Association for Computing Machinery Student Chapter

Led alumni panels, interview prep sessions, and software engineering crash courses

Coursework

Graduate

Computer Science Database Management Systems, Computational Linguistics

Undergraduate

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 https://alexanderwlee.com/assets/pdf/alexanderwlee-cv.pdf This revision was created on September 26, 2024