Alexander W. Lee
Curriculum Vitae

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https://alexanderwlee.com

Education

2024–	Brown Universtiy Ph.D. in Computer Science, GPA: 4.00/4.00 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

Industry Experience

Summer '25	Research Intern, Snowflake AI Research
2022–2024	Software Engineer, Cloud + AI, Microsoft
Summer '21	Software Engineer Intern, Cloud + AI, Microsoft
Summer '20	Software Engineer Intern, Fidelity
Summer '19	Software Engineer Intern, Health Sqyre

Publications and Preprints

All publications and preprints are available from https://alexanderwlee.com/publications

[1] Ugur Cetintemel, Shu Chen, **Alexander W. Lee**, and Deepti Raghavan. *Making Prompts First-Class Citizens for Adaptive LLM Pipelines*. 2025. arXiv: 2508.05012 [cs.DB]

[2] **Alexander W. Lee**, Justin Chan, Michael Fu, Nicolas Kim, Akshay Mehta, Deepti Raghavan, and Ugur Cetintemel. "Semantic Integrity Constraints: Declarative Guardrails for AI-Augmented Data Processing Systems". In: *Proceedings of the VLDB Endowment*. Vol. 18. 11. VLDB Endowment, 2025, pp. 4073–4080. DOI: 10.14778/3749646.3749677

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

[4] **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

2022   The Computer Science Prize, Amherst College

2022   Phi Beta Kappa, Amherst College

Mentoring

2024–   Justin Chan, Brown University

2024–   Nicolas Kim, Brown University

2024–   Akshay Mehta, Brown University

2024–2025   Michael Fu, Brown University

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

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