BENJAMIN HOLMES

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Education

Massachusetts Institute of Technology   **Fall 2023 – Present**
PhD Student

Vassar College   **Fall 2019 – Spring 2023**
BA in Computer Science, Departmental Honors

Research Interests

Operating system design for efficient, elastic compute with heterogeneous workloads in the datacenter

Publications

- *SEVeriFast: Minimizing the root of trust for fast startup of SEV microVMs.* **Benjamin Holmes**, Jason Waterman, Dan Williams. *Proceedings of the 29th ACM International Conference on Architectural support for Programming Languages and Operating Systems (ASPLOS '24)*

- *KASLR in the age of microVMs.* **Benjamin Holmes**, Jason Waterman, Dan Williams. *Proceedings of the 17th European Conference on Computer Systems (EuroSys '22)*

Awards

Janet Holdeen-Adams Prize for Excellence in Computer Science   **Vassar College, 2023**

Sigma Xi Inductee   **Vassar College, 2023**

Experience

Research Assistant   **Fall 2023 – Present**
Advisor: Adam Belay   *Massachusetts Institute of Technology*

Research Assistant   **Summer 2021 – Spring 2023**
Advisors: Jason Waterman and Dan Williams (Virginia Tech)   *Vassar College*

Teaching Assistant   **Fall 2023**
Operating Systems   *Vassar College*

Teaching Assistant   **Spring 2021**
Introduction to Computer Systems   *Vassar College*

Talks

ASPLOS, conference talk   **April 2024**

Technical Skills

- Linux kernel development
- Virtualization
- Programming Languages: C, C++, Rust, Python, Go, Java

Relevant Coursework

- Operating Systems
- Computer Networks
- Distributed Systems