

# Sujay Yadalam

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## RESEARCH INTERESTS

Memory and Storage Systems, Computer Architecture, Operating Systems, Hardware Security

## EDUCATION

UNIVERSITY OF WISCONSIN-MADISON

August 2019 - Present

MS, PhD in Computer Science, Minor in Life Science Communication

GPA: 3.88/4.0

**Courses:** Introduction to Operating Systems, Advanced Computer Architecture I, Advanced Computer Architecture II, Next Generation Databases, Advanced Machine Learning, Big Data Systems, Distributed Systems, Algorithms

PES UNIVERSITY

B.E in Electronics and Communication

August 2012 - May 2016 | Bangalore, India

GPA: 9.54/10

## PUBLICATIONS

[1] Divyanshu Saxena, Jiayi Chen, [Sujay Yadalam](#), Yeonju Ro, Rohit Dwivedula, Eric Campbell, Aditya Akella, Christopher Rossbach, and Michael Swift. “**How I learned to stop worrying and love learned OS policies.**” in HotOS 2025.

[2] [Sujay Yadalam](#), Chloe Alverti, Vasileios Karakostas, Jayneel Gandhi, Michael Swift. “**BypassD: Enabling fast userspace access to shared SSDs.**” in 2024 ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS 2024).

[3] [Sujay Yadalam](#), Nisarg Shah, Xiangyao Yu, Michael Swift. “**ASAP: A Speculative Approach to Persistence.**” 2022 IEEE International Symposium on High-Performance Computer Architecture (HPCA 2022).

[4] [Sujay Yadalam](#), Vinod Ganapathy, Arkaprava Basu. “**SGXL: Security and Performance for Enclaves Using Large Pages.**” ACM Transactions on Architecture and Code Optimization (TACO) 18, no. 1 (2020): 1-25

## UNDER SUBMISSION

[1] [Sujay Yadalam](#). “**From Good to Great: Improving Memory Tiering Performance Through Parameter Tuning**”.

[2] [Sujay Yadalam](#). “**A Robust Knob-free Tiering System.**”

[3] [Sujay Yadalam](#). “**A Practical Rowhammer Defense for Cloud Security.**”

[4] [Sujay Yadalam](#). “**Maximizing Bang for your Byte with Tiered Memory.**”

## PROFESSIONAL EXPERIENCE

MICROSOFT RESEARCH | Research Intern

May 2022 - June 2023 | Remote (Madison)

Advisor(s): Stefan Saroiu, Alec Wolman

- Researched architectures for DRAM security in the cloud.

VMWARE RESEARCH | Research Intern

June 2021 - September 2021 | Palo Alto

Advisor(s): Jayneel Gandhi

- Developed a design to achieve low cost in-core communication across privilege levels to reduce the cost of privilege mode switches.
- Rethinking I/O architecture to achieve low latency access to NVMe storage devices.

COMPUTER SYSTEMS LAB @ IISC | Research Assistant

August 2018 - July 2019 | Indian Institute of Science

Advisor(s): Arkaprava Basu & Vinod Ganapathy

- Worked on enhancing security of TEEs such as Intel SGX against side-channel attacks.

CYPRESS SEMICONDUCTOR | Applications Engineer

July 2016 - July 2018 | Bangalore, India

- Worked on the Bluetooth stack, mostly on the power management module.
- Developed an Indoor Positioning System based on Bluetooth Low Energy for demonstration purposes.

ANALOG DEVICES | Co-op Intern

Jan 2016 - Jun 2016 | Bangalore, India

- Studied performance of different embedded micro-processors for mathematical and DSP algorithms using trace driven analysis. The results of the analysis were utilized to optimize algorithms.

AWARDS

LAWRENCE H. LANDWEBER NCR FELLOWSHIP

UW-Madison | 2024-25

DISTINGUISHED ARTIFACT AWARD

ASPLOS 2024

TEACHING ASSISTANT AWARD

UW-Madison | 2019

TEACHING

LEAD INSTRUCTOR

CS537 - Intro to OS

UW-Madison, Summer 2024

TEACHING ASSISTANT

CS642 - Intro to Computer Security

UW-Madison, Fall 2019

GUEST LECTURES

CS739 - Distributed Systems | Cluster Scheduling

UW-Madison, Fall 2024

CS537 - Intro to OS | Log structured Filesystems

UW-Madison, Fall 2024

CS537 - Intro to OS | Concurrency bugs

UW-Madison, Spring 2024

CS537 - Intro to OS | IO devices and disk schedulers, RAID

UW-Madison, Spring 2023

CS839 - Special Topics on persistence | NVM architectures

UW-Madison, Fall 2021

CS642 - Intro to Computer Security | Hardware security

UW-Madison, Fall 2019

SERVICE

EuroSys Fall 2025 Shadow PC

2025

USENIX ATC 2024 Artifact Evaluation

2024

OSDI 2024 Artifact Evaluation

2024

EuroSys Fall 2024 Shadow PC

2024

HPCA 2024 Artifact Evaluation

2024

International Student Services Advisory Board

UW-Madison | 2023-2024

Student ACM volunteer

UW-Madison | 2019-2021

CSR volunteer

Cypress Semiconductor | 2016-2018