

## EDUCATION

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### Princeton University

Princeton, NJ

PhD in Computer Science, advised by Dr. Wyatt Lloyd &amp; Dr. Ethan Katz-Bassett (Columbia)

2017–2023

**Dissertation:** “Nabu: Unlocking Better Cache Performance at Lower Cost with Expiration Time-based Flash Caching”.

### University of Southern California

Los Angeles, CA

PhD in Computer Science, advised by Dr. Wyatt Lloyd &amp; Dr. Ethan Katz-Bassett (Columbia).

2016–2017

Completed at Princeton University.

### University of California, Los Angeles

Los Angeles, CA

MS in Computer Science, advised by Dr. Miodrag Potkonjak

2014–2016

**MS Thesis:** “Evaluating 802.11p in Software-Defined Radio using Realistic Channel Parameters”.

Supervised by Dr. Miodrag Potkonjak and Dr. Bastian Bloessl (then at U. Paderborn).

### University of Chicago

Chicago, IL

BA with Honors in Linguistics

2005–2009

**BA Thesis:** “Predictability and Motivation for the Genitive/Dative Alternation in Modern German Constructions for Attributive Nominal Relations”. Supervised by Dr. Steven Clancy.

## PUBLICATIONS

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- Lim K, Giordano M, **Stavrinou T**, Nelson J, Zhang I, Kasikci B, Anderson T. “Beehive: A Flexible Network Stack for Direct-Attached Accelerators.” To appear in *MICRO* 2024.
- Park J, **Stavrinou T**, Peter S, Anderson T. “EMPower: The Case for a Cloud Power Control Plane.” In *HotCarbon* 2024.
- Xie D, **Stavrinou T**, Zhu K, Peter S, Kasikci B, Anderson T. “Can Storage Devices be Power Adaptive?” In *HotStorage* 2024.
- Mwotil A, Anderson T, Kanagwa B, **Stavrinou T**, Bainomugisha E. “LowPaxos: State Machine Replication for Low Resource Settings.” In *IEEE Access* 2024.
- **Stavrinou T**. “Nabu: Unlocking Better Cache Performance at Lower Cost With Expiration Time-Based Flash Caching.” PhD Thesis 2023.
- Hodsdon C, **Stavrinou T**, Katz-Bassett E, Lloyd W. “MASON: Scalable, Contiguous Sequencing for Building Consistent Services.” In *Journal of Systems Research (JSys)* 2023.
- **Stavrinou T**, Berger D, Katz-Bassett E, Lloyd W. “Don’t Be a Blockhead: Zoned Namespaces Make Work on Conventional SSDs Obsolete.” In *HotOS* 2021.
- Pan S, **Stavrinou T**, Zhang Y, Sikaria A, Zakharov P, Sharma A, Shankar P S, Shuey M, Wareing R, Gangapuram M, Cao G, Preseau C, Singh P, Patiejunas K, Tipton JR, Katz-Bassett E, Lloyd W. “Facebook’s Tectonic Filesystem: Efficiency from Exascale.” In *FAST* 2021.
- Guo J, Xu T, **Stavrinou T**, Potkonjak M. “Enabling Environmentally-Powered Indoor Sensor Networks with Dynamic Routing and Operation.” In *PATMOS* 2016.
- Pannetier N, **Stavrinou T**, Ng P, Herbst M, Zaitsev M, Young K, Matson G, Schuff N. “Quantitative Framework for Prospective Motion Correction Evaluation.” In *Magnetic Resonance in Medicine* 2016.

## ACADEMIC & DEPARTMENTAL SERVICE

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• <b>USENIX ATC 2024 Reviewer</b>	2024
• <b>NSDI 2024 Reviewer and Scribe</b>	2024
• <b>OSDI 2023 External Reviewer</b>	2023
• <b>Princeton CS Department Climate &amp; Inclusion Committee PhD student representative</b>	2020–2022
• <b>Internet Measurement Conference (IMC) 2022 External Reviewer</b>	2022
• <b>OSDI 2021 External Reviewer</b>	2021
• <b>OSDI 2018 Topic Preview Sessions Organizer</b>	2018
• <b>OSDI 2018 External Reviewer</b>	2018
• <b>NSDI 2018 External Reviewer</b>	2018
• <b>Internet Measurement Conference (IMC) 2017 Shadow PC Member</b>	2017
• <b>SIGCOMM 2017 Topic Preview Sessions Co-Organizer</b>	2017
• <b>NSDI 2017 External Reviewer</b>	2017

## SCHOLARSHIPS AND AWARDS

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• <b>Chris Edmondson-Yurkanan Travel Grant</b> Grant awarded for service to SIG to support travel to SIGCOMM	2018
• <b>Open Science Data Cloud PIRE Fellow</b> NSF-sponsored fellowship awarded to fund research internship at the University of Amsterdam	2015
• <b>Graduate Opportunity Fellowship Recipient</b> Fellowship awarded to cover full tuition and living expenses for first year of Master's degree	2014–2015
• <b>Benjamin A. Gilman International Scholarship</b> Scholarship awarded to fund Civilization Studies Semester Abroad in Athens, Greece	2007

## WORK EXPERIENCE

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<b>University of Washington</b> Postdoctoral Researcher, Paul G. Allen School of Computer Science and Engineering	Seattle, WA Summer 2023–present
<ul style="list-style-type: none"><li>– Researches power- and carbon-aware systems within the Future of Cloud Infrastructure (FOCI) project.</li><li>– Advises graduate and undergraduate students on projects.</li></ul>	
<b>Microsoft Research</b> Research Intern, Holographic Storage Team	Cambridge, UK Fall 2022
<ul style="list-style-type: none"><li>– Built simulator to evaluate performance and endurance impact of caching on flash-based SSDs (C++, Python)</li><li>– Evaluated feasibility of caching IO-heavy workloads on flash</li></ul>	
<b>Facebook</b> Software Engineering Intern, Storage Team	Menlo Park, CA Winter 2020
<ul style="list-style-type: none"><li>– Explored performance versus cost tradeoffs for flash-based SSDs in Facebook's distributed filesystem (C++)</li><li>– Collaborated with storage team to publish experience paper about Facebook's storage infrastructure</li></ul>	
<b>Google</b> Software Engineering Intern, Traffic Team	San Francisco, CA Summer 2016
<ul style="list-style-type: none"><li>– Integrated regression detection service into binary rollout framework to automate evaluation of updates (Python)</li><li>– Applied integrated framework to automate rollouts for API management service (Python, C)</li></ul>	

**3Scan, Inc.**

Software Development Intern

San Francisco, CA

Summer 2015

- Implemented Firmata protocol for sensor-to-microscope communication (Python, C)
- Built interactive shell for testing sensor system (Python)

**3Scan, Inc.**

Software Development Intern

San Francisco, CA

Summer 2014

- Integrated microscope sensors and focus mechanism into Arduino microcontroller (C, C++)
- Built browser dashboard for monitoring system status (JavaScript, HTML, MongoDB, d3)

**Center for Imaging of Neurodegenerative Diseases**

Research Associate

San Francisco, CA

June 2012–May 2014

- Carried out texture analysis experiments to quantify MRI motion artifacts (Python)
- Implemented fMRI network analysis pipeline with NetworkX (Python) and Circos visualization software

## TEACHING

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- **Teaching Assistant** at Princeton University Spring 2019  
*Introduction to Computer Science (COS 126)*
- **Teaching Assistant** at Princeton University Fall 2018  
*Advanced Distributed Systems (COS 418)*
- **Teaching Assistant** at University of California, Los Angeles Winter & Spring 2016  
*Introduction to Operating Systems (CS 111)*

## LANGUAGES & FRAMEWORKS

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- **Computer Languages:** C, C++, Python
- **Software:** SPDK, DPDK, QEMU
- **Natural Languages:** advanced German, conversational Spanish, beginner Greek