

Jacob L. Block

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Austin, TX, USA

EDUCATION

- **The University of Texas at Austin** 2023 - 2028
Ph.D. in Electrical and Computer Engineering Austin, TX, USA
 - GPA: 4.00/4.00
 - Advisors: Profs. Aryan Mokhtari and Sanjay Shakkottai
 - Focus: Efficient fine-tuning and unlearning for large scale models with provable guarantees
- **University of Michigan** 2023
B.S.E. in Electrical Engineering, Minor in Mathematics Ann Arbor, MI, USA
 - Grade: 3.99/4.00

EXPERIENCE

- **Hudson River Trading** January 2026
Algorithm Developer Intern New York, NY
 - Participated in the PhD Winter Internship program
- **Google Research** June 2025-December 2025
Student Researcher Remote
 - Researched machine unlearning for LLMs
 - Worked with the Learning Theory Team
- **The University of Texas at Austin** 2023-present
Graduate Research Assistant Austin, TX
 - Performing research in model fine-tuning and unlearning
- **University of Michigan** 2022-2023
Research Assistant Ann Arbor, MI
 - Researched supervised principle component analysis (PCA) methods for heteroscedastic data
 - Worked with Prof. Jeff Fessler
- **MathWorks** May 2022-August 2022
Intern Boston, MA
 - Developed audio ML solutions for speech command recognition and anomaly detection in MATLAB
 - Worked with the Audio Toolbox Team
- **Lawrence Livermore National Laboratory** May 2021-May 2022
Intern Remote
 - Designed an automated beam steering algorithm for the Flash X-Ray (FXR) linear induction accelerator
 - Worked with the Beam Physics Group

PUBLICATIONS

- [1] JLB, Aryan Mokhtari, Sanjay Shakkottai. *Machine Unlearning under Overparameterization*. NeurIPS 2025.
- [2] JLB, Sundararajan Srinivasan, Liam Collins, Aryan Mokhtari, Sanjay Shakkottai. *Provable Meta-Learning with Low-Rank Adaptations*. NeurIPS 2025.

HONORS AND AWARDS

- NSF GRFP Honorable Mention (2024)
- Basdall Gardner Memorial Graduate Engineering Fellowship (2023)
- University of Michigan EECS Outstanding Achievement Award (2023)
- University of Michigan Richard K. Brown Memorial Scholarship (2023)

SKILLS

- **Programming:** Python, C++, MATLAB
- **Software Tools / Libraries:** Pytorch, Git, Linux
- **Languages:** English (native), Spanish (conversational), Hebrew (conversational)