Timothe Kasriel
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EDUCATION

- **University of Michigan** (2026-). CSE PhD
- **UC Berkeley** (2022-2026). CS & Pure Math double major
- **Lycée Français de San Francisco** (2018-2022).

RESEARCH

- **BAIR,** Sunblaze research group under Professor Dawn Song (2024-Present)
  - Usefulness-driven Learning of Formal Mathematics: Automated theory exploration from minimal axioms using a language model trained from scratch, submitted to ICLR 2026. Accepted at AI for Math Workshop, NeurIPS 2025
  - Theorem proving work for VERINA: a verifiable code generation benchmark submitted to ICLR 2026 and accepted at AI4Math Workshop, ICML 2025 and for VERINA 2.
  - Represented research group, presented poster, and was a publication reviewer at the AI for Math workshop at ICML 2025 and at NeurIPS 2025.
- **AUTOLAB**, BAIR research group under Professor Ken Goldberg (Summer 2024)
  - Performed experiments for an LLM agent for designing block assembly structures on tabletop
- **Berkeley Institute of Transportation** (2020-2021)
  - Year-long internship to create spatio-temporal visualizations for Berkeley's Integrated System for Transportation Optimization (BISTRO), under the supervision of Professor Bayen. Publication: Multi-Objective Transportation System Optimization Using Agent-Based Simulation

INDUSTRY EXPERIENCE

- **Numberly** (Summer 2023)
  - Enterprise backend development using modern tools (n8n, kubernetes, fastAPI, etc.) to produce APIs and internal tools. Collaborated with teams through version control software.

TEACHING EXPERIENCE

- **CS 70 Discrete Mathematics and Probability Theory:** Academic Intern (1 semester), Tutor (2 semesters), TA (1 semester).

EXTRA-CURRICULARS

- **Intercollegiate Math Tournament** (2026-): Logistics organizer. Planning tournament day logistics for a multi-day competition hosting 400+ undergraduate students.
- **Berkeley Math Tournament** (2023-2026): Operations organizer. Led a team of 12+, planning all tournament day logistics (room allocations, schedule, volunteer recruitment) for BMT, a math competition inviting 1500 high school students.
- **Codify** (2023): Project manager. Led a team of 6 for development of a web app for an AI startup.

CLASSES

- Machine learning: Intro to Machine Learning; Deep Neural Nets; Advanced LLM Agents and Reasoning
- Mathematics: Real Analysis; Abstract Linear Algebra; Abstract Algebra; Complex Analysis; Intro to Logic
- Theoretical CS: Automata Theory, Complexity and Computability; Analysis of Boolean Functions; Constraint Satisfaction Problems

SKILLS:

- Programming languages: Python (9 years, experience with PyTorch, Matplotlib, vLLM, ...), Lean 4 (2 years), Java (2 years+), C++ (4 years+)
- Computer Science: Advanced data structures & algorithms, deep learning and LLMs, automated theorem proving (ATP)
- Languages: Bilingual French/English