

Ozan Bayiz

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EXPERIENCE

BERKELEY ARTIFICIAL INTELLIGENCE RESEARCH

UNDERGRADUATE RESEARCHER

December 2024 – Present | Berkeley, CA

- Fine-tuning a flow-based video generation model to enable video synthesis conditioned on multi-human SMPL and camera trajectories.
- Optimized a multi-GPU preprocessing workflow, improving runtime by 8x and downstream IO throughput by 22x.
- Under preparation for ICML submission (with Vongani Maluleke)

CS189/289A COURSE STAFF

HEAD TA

October 2025 - Present | Berkeley, CA

- Orchestrating all logistics (staffing, onboarding, scheduling, booking) for Spring 2026 offering with 850+ student enrollment.
- Co-designing the semester's academic content (lectures, homework, discussions, exams) and course policies with professors.

UCS1/TUTOR, LECTURE AND EXAM

August 2025 - December 2025 | Berkeley, CA

- Supporting students by providing live clarification during lectures and in weekly office hours.
- Assisting professors in reviewing and refining lecture materials.
- Developing the midterm and final exams and supplementary materials.

UC BERKELEY FASHION & STUDENT TRENDS

MODELING DIRECTOR

January 2025 – Present | Berkeley, CA

- Managing all logistics for departmental initiatives (staffing, scheduling, booking).
- Developed and led comprehensive training programs for runway models.

SAN DIEGO SUPERCOMPUTER CENTER

UNDERGRADUATE FELLOW

May 2024 – September 2024 | San Diego, CA

- Advised by Katie O'Laughlin & Prof. İlkey Altıntaş.
- Engineered a full-stack application integrating the WIFIRE Commons Data Catalog API with an interactive map interface for real-time search and visualization of geospatial data.
- Developed scripts for on-demand access to USGS Landsat Normalized Burn Ratio (NBR) data, enabling wildfire risk analysis for researchers.
- Presented at the first WIRED Grid Resilience Symposium.

UNIVERSITY OF SOUTHERN CALIFORNIA

RESEARCH ASSISTANT

June 2021 – October 2021 | Los Angeles, CA

- Worked with Professor Andrew Daw
- Analytically verified that a novel algorithm for simulating trials of the Hawkes process aligned with theoretical properties and evaluated its runtime performance against other simulation algorithms.

EDUCATION

UC BERKELEY

B.A. IN COMPUTER SCIENCE (GPA: 3.96)

Aug 2022 – May 2026 | Berkeley, CA

AWARDS

- 2025 UC Berkeley EECS Evergreen Undergraduate Research Award
- 2024 WIRED Undergraduate Fellowship
- 2022 Regents' and Chancellor's Scholarship

SOCIETIES

- 2023 – Present Upsilon Pi Epsilon
- 2022 – Present Regents & Chancellors Scholarship Association

TECHNICAL SKILLS

MACHINE LEARNING & AI

Generative Models DDIM, DDPM, Flow

Representation Learning: VAE, VQ-VAE, SAE, MAE, Contrastive Learning

Fine-tuning/Adaptation: ICL, LoRA, Soft Prompting, Prompt Tuning

ARCHITECTURES

CNN • SSM • Transformer • GNN

FRAMEWORKS & TOOLS

HuggingFace • PyTorch • Lightning • Hydra • WandB • React • TailwindCSS • NextJS

PROGRAMMING

Python • SQL • C • JavaScript • TypeScript

SELECT COURSEWORK

EECS126: Probability/Random Processes (A)

EECS127/227AT: Optimization

CS61B: Data Structures (A)

CS61C: Computer Architectures (A+)

CS162: OS / Systems Programming (A)

CS170: Efficient Algorithms (A)

CS180/280A: Intro. to CV (A)

CS182/282A: Deep Neural Networks (A+)

CS183/283A: NLP (In Progress)

CS184/284A: Comp. Graphics (Spring 2026)

CS185/285: Deep RL (Spring 2026)

CS189/289A: Intro. to ML (A+)

CS194-196: LLM Agents (In Progress)

CS280: Graduate CV (Spring 2026)