

Alexander Chin

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EDUCATION

University of California San Diego La Jolla, CA
B.S. in Mathematics-Computer Science, Minor in Cognitive Science Sep 2025 – Jun 2028 (expected)
GPA: 3.7
Courses: Probability & Statistics, Stochastic Processes, Data Structures & Algorithms, Data Science in Practice, Computational Modeling of Cognition and Behavior

RESEARCH EXPERIENCE

Undergraduate Research Assistant Mar 2026 – Present
Visual Learning Lab, UC San Diego Department of Psychology
PI: Bria Long
Mentor: Tarun Sepuri

- Investigated how various vision models and training datasets preserve geometry in line-drawing embeddings.
- Built and maintained data pipelines for an infant word-recognition study, implementing automated gaze encoding and GPU processing to speed up data throughput.
- Maintained the lab's open-source Python package (vllpy), contributing code for downstream RDM analysis and model integration.

Undergraduate Research Assistant Jan 2026 – Apr 2026
The Econ Lab @ UC San Diego Department of Economics
Mentor: Maddison Erbabian

- Conducted literature review and policy research on educational policy development in Brazil and Egypt.
- Analyzed the economic effects of higher-education institutions in South America and Africa using geospatial data analysis and econometric regressions in Stata.

Research Intern (Transfer Research Experience Program) Aug 2025 – Sep 2025
UC San Diego Department of Mathematics
Advisor: Lijun Ding

- Studied gradient-based optimization for machine learning and trained classifiers on the MNIST and Mushroom datasets.

OTHER EXPERIENCE

Software Developer Co-op (incoming) Jan 2027 - May 2027
IBM Lowell, MA

Software Engineer, Contract Jun 2026 – Sep 2026
Essenergy Inc. Milpitas, CA

Operations Manager Mar 2023 – Jun 2025
LionDanceME San Francisco, CA

UNIVERSITY ACTIVITIES

AI Projects Mentor, ACM at UC San Diego 2026 - Present
Projects Director, ACM at UC San Diego 2026 – Present
Software Team, Triton Engineering Student Council 2026 – Present
Mathematics & Physics Tutor, City College of San Francisco 2024-2025

SKILLS

Programming Languages: Python, SQL, C++, Java, TypeScript/JavaScript, Stata

Frameworks: PyTorch, Hugging Face, pandas, NumPy, FastAPI, Playwright

Languages: English, Mandarin Chinese

REFERENCES

References available upon request.