Armaan A. Abraham

Vancouver, Palo Alto | (778) 240-2138 | armaana@stanford.edu | armaanabraham.com

EDUCATION

Stanford University — Palo Alto, CA
Computer Science M.S. — *Sep 2025 – Jun 2027 (Expected)*

University of California, Los Angeles — Los Angeles, CA
Computer Science B.S., Biophysics B.S. — *Sep 2019 – Jun 2023*
GPA: 3.98 – Summa Cum Laude

Experience

Prof. Chelsea Finn's Lab, Stanford — Palo Alto, CA
Graduate Student Researcher — *Sep 2025 – Present*

- Researching artificial intelligence with emphasis on applications to robotics.
- Working with a large degree of autonomy on novel reinforcement learning (RL) algorithms.

Prof. Aaron Meyer's Lab, UCLA — Los Angeles, CA
Staff / Undergraduate Researcher — *Sep 2022 – Mar 2025*

- Led and contributed to computational biology research projects resulting in two publications.
- Created Unaligned Low-rank Tensor Regression with Attention (ULTRA), a novel ML approach for single-cell RNA sequencing data analysis.

Thriftax — Los Angeles, CA
Lead Software Engineer, Cofounder — *Mar 2020 – May 2024*

- Led the development of a tax-filing web application for US nonresidents, assisting in over 5100 tax returns and serving over 1100 customers, primarily international students from UCLA, UC Berkeley, and Stanford.
- Achieved ~$25k in revenue before closing up shop.
- Supervised interns, designed and managed our software, designed our product, and conducted sales efforts with universities and Au Pair companies.

Tesla — Palo Alto, CA
Software Engineer Intern – Vehicle Software — *Jun 2022 – Sep 2022*

- Led development of the event data recorder (EDR) file processing pipeline which had a hard deadline within 8 weeks before Tesla vehicle sales would otherwise be blocked in China.
- Created a caching approach for vehicle CAN signals, using Redis and golang, reducing the runtime of a commonly run job by ~100x.

Publications

A. Ramirez, B. T. Orcutt-Jahns, S. Pascoe, **A. A. Abraham**, B. Remigio, N. Thomas, and A. S. Meyer, "Integrative, high-resolution analysis of single cell gene expression across experimental conditions with PARAFAC2-RISE," *Cell Systems*, May 2025, doi:10.1101/2024.07.29.605698v1.

A. A. Abraham, Z. C. Tan, P. Shrestha, E. R. Bozich, and A. S. Meyer, "A multivalent binding model infers antibody Fc species from systems serology," *PLoS Computational Biology*, vol. 20, no. 12, p. e1012663, Dec 2024, doi:10.1371/journal.pcbi.1012663.

Awards and Honors

Career Development and Transition Funding Grant. *Open Philanthropy.* Awarded $17.7k for independent research on deep sparse autoencoders. *2025*

Inductee. *Upsilon Pi Epsilon (UPE) International Honor Society.* *2021*

Bronze Governor General's Award. *The Governor General of Canada.* Awarded to Canadian secondary student with highest GPA in graduating class *2019*

National Book Award. *University of Toronto.* National award for Canadian secondary students with outstanding academic performance. *2019*

Excellence in Math Award. *Simon Fraser University.* *2018*