

# Max Mendoza

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## PERSONAL WEBSITE

<https://maximusmendoza.github.io>

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## PROFILE

Experienced research assistant with 5+ years of programming expertise, specializing in the mathematics of deep learning and intelligent systems. Currently pursuing a dual bachelor's and master's in math and computer science at UCLA. Looking to contribute to AI safety, either through technical or governance research.

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## EDUCATION

Sept 2024 — Jun 2028

Bachelor of Science in Mathematics of Computation, University of California, Los Angeles

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## COURSEWORK

Data Structures and Algorithms (UCLA), Linear Algebra (UCLA), Probability Theory and Statistics (UCLA), Neurophysics (UCLA), Machine Learning (Coursera), Reinforcement Learning (AI Safety at UCLA), Multivariable Calculus (CSUF), Linear Differential Equations (CSUF), Category Theory (UCLA Mathematics DRP)

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## EXPERIENCE

Jan 2026 — Present

Research Assistant, Equilibria Network

Continuing research conducted as a part of SPAR. Currently exploring how networks of agents interact to form emergent collectives using tools from spectral graph theory, active inference, statistical mechanics, and applied category theory, with the ultimate goal of developing a general mathematics of collective intelligence.

Aug 2025 — Jan 2026

Research Assistant, SPAR

Conducted exploratory literature review to identify common mathematical frameworks used to study collective intelligence as a part of the Supervised Program for Alignment Research. Worked on synthesizing these frameworks to develop methods for efficient prediction and simulation of large-scale multi-agent systems.

Jun 2023 — Sept 2023

Research Assistant, Harvard-Smithsonian Center for Astrophysics

Analyzed spectral data from 700,000+ supermassive black holes, using dimensionality reduction techniques (PCA, UMAP, Autoencoders, etc.) to develop a novel classification system for active galactic nuclei.

Mar 2022 — Jul 2022

Research Assistant, Harriton Research Lab

Leveraged computational biology methods (Mendelian randomization) using R to analyze several genome wide association studies of more than 115,000 individuals. Established causal links between 29 metabolites and Multiple Sclerosis.

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## PERSONAL ENDEAVORS

May 2025 — May 2025

CiteTrace

Developed a platform that transforms academic papers into an interactive knowledge graph, enabling visual exploration of relationships, AI-assisted summaries, and similarity-based discovery. Built with React Native, D3.js, Flask, Supabase, and a cloud-deployed similarity model integrated with RAG pipelines. Won first place at the ACM x Intel Hackathon.

Sept 2021 — Jun 2024

Educated Finance

Co-founded nonprofit focused on improving financial literacy among youth, Led 18-member team providing 1:1 tutoring & resources for people in 7 countries, and raised \$2000 as treasurer.

Aug 2019 — Present

Production Assistant

Help to facilitate the needs of various departments on set in an expeditious and efficient manner. Occasionally supervise newer PAs as they become acclimated to the hectic, fast-paced environment found on most film sets.