

Anna Fisher Lopez

AI & Sustainability Enthusiast | Stanford Physics, CS & AI

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PROFESSIONAL EXPERIENCE

Research Assistant

Stanford University, Dept. of Computer Science

Sep 2025 – Present

Stanford, CA

- Applying graph-based neural networks to analyze bat communication patterns
- Working with ecological experts at the Jasper Ridge Biological Preserve, applying AI-driven insights to better understand bat communication

Teaching Assistant – CS 109: Probability for Computer Scientists

Stanford University, Dept. of Computer Science

Sep 2025 – Present

Stanford, CA

- Selected as one of 11 TAs from a highly competitive applicant pool
- Lead 2 sections and 4 office hours per week in applied statistics and probability

Research Assistant

Sheshadri Lab @ Doerr School of Sustainability

Feb 2025 – Jun 2025

Stanford, CA

- Calculated momentum fluxes using ERA5 climate model data to support higher-resolution climate model parameterizations
- Developed an attention-based UNet model to model 3D gravity wave propagation, improving simulation accuracy

Energy Equity Strategy Assistant

Acterra

Oct 2024 – Jun 2025

Palo Alto, CA

- Developed a report for Acterra's internal strategy team to help improve renter electrification resources
- Collaborated with Acterra's strategy team to identify barriers to electrification among low-income tenants

Strategy and Software Intern

Gemini Energy Solutions

Jun 2024 – Aug 2024

Washington, D.C.

- Conducted a nationwide market priority study to identify priority areas for Gemini's new projects
- Coordinated with clean energy contractors in different states to align project execution with energy-efficiency and budget goals
- Improved usability and reliability of Gemini's energy audit assistance platform through backend software updates

EDUCATION

B.S. Physics, M.S. Computer Science (AI Track)

Stanford University

Sep 2021 – Jun 2026

- GPA: 3.7/4.0
- Outdoor Trip Leader for Stanford Adventure Programs
- Additional Research: Astrophysics @ Stanford (2022), physical oceanography @ University of Washington (2023)

SKILLS & INTERESTS

Skills — Python, C/C++, Graph Neural Networks, Machine Learning (PyTorch, TensorFlow), Climate Modeling, GIS (QGIS, ArcGIS), Statistical Analysis, Energy Systems

Domain Interests — Sustainability & AI, Equitable Clean Energy Transitions, Climate Change Mitigation Tech & Strategy