

Evan Hackstadt

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EDUCATION

Santa Clara University | Bachelor of Science in Computer Science; Minor in Biology Expected: Jun 2027

- GPA: 3.983 / 4
- Relevant Courses: Applied ML, Analysis of Biological Data, AI in Medical Imaging, Cancer Bio, Statistics

SKILLS

- Languages: Python, R, Bash, C++, SQLite, HTML, CSS
- Tools: pytorch, pandas, numpy, matplotlib, git | fastp, bwa, angsd, pca, iqtree
- Soft Skills: methods design, scientific communication, organization, project management, communication

EXPERIENCE

Bioinformatics Research Assistant

Dr. Whittall, Santa Clara University | Santa Clara, CA Sep 2025 - present

- Developed bioinformatics pipeline in Snakemake and custom Python scripts for whole-genome analysis
- Extracted biological insights from ~300 endangered plant DNA samples via PCA and phylogeny
- Connected population analyses back to evolutionary and conservation implications

ORION Computational Research Intern

Oregon Health & Science University | Portland, OR Jun 2026 - Aug 2026

- Implemented Physics-Informed Neural Networks in Python to solve cardiovascular flow problems
- Benchmarked multiple architectures with visualization and error analysis
- Integrated underlying differential equations and problem setup into model design
- Grounded experiments in cardiovascular disease biology and future clinical applications

REU Computational Research Intern

Oregon State University | Corvallis, OR Jun 2025 - Aug 2025

- Performed Monte Carlo simulation for sensitivity analysis of a watershed model
- Wrote 11 Python scripts for data visualization, expanded model code for fuzzy logic adjustments
- Managed SQLite integration for data storage and management
- Created 65-page project report, lightning talk, and poster to communicate research impact

PROJECTS

HyBINN Jan 2026 - Jun 2026

- Implemented a novel Biologically-Informed Neural Network for breast cancer survival prediction
- Evaluated predictive power of gene expression data via ablation study and model benchmarking

INVOLVEMENTS

Health Care Ethics Intern

Markkula Center for Applied Ethics | Santa Clara, CA Sep 2025 - Jun 2026

- Shadowed nurse practitioner at Sutter Health, connecting ethical frameworks to real-world challenges
- Published bioethics research article on interpretable AI for clinical decision support

Peer Tutor (Chemistry & CS)

Santa Clara University | Santa Clara, CA Sep 2024 - Nov 2025

- Provided 1-on-1 support for students in General Chemistry and lower-div Computer Science courses