

BACH NGUYEN

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SUMMARY

Technical researcher and scientific communicator at the intersection of artificial intelligence, global public health, and policy. Proven track record applying critical analysis to AI-driven imaging research at Stanford, writing technical features for Harvard's Undergraduate Microbiology Society, and delivering health equity briefs to U.S. Congressional offices.

SKILLS

AI & Technical: LLM Evaluation, Prompting, Generative AI Prototyping

Research & Domain Expertise: Scientific Literature Synthesis, Multimodal Imaging, Attention to Detail, Statistical Validation, Public Health Economics, Epidemiology

Communication & Strategy: Technical Writing, Editorial Strategy, Policy Briefs, Cross-functional Mentorship

EDUCATION

California State University, Long Beach — Incoming — B.S. Public Health | Fall 2026

Pacifica High School — Graduate | May 2026

Honors: Mariner (Student) of the Year • AP Distinguished Scholar • Gold Medalist, International Medical Journalism Olympiad • State Seal of Biliteracy (Vietnamese) • U.S. House of Representatives Certificate of Recognition (Academic Decathlon and Devil Pups) • NJROTC 2nd Place Nationals, Academics & Military Inspection

RESEARCH & INDUSTRY EXPERIENCE

TruBridge Healthcare Data Analytics Externship — Data Analyst Extern | June 2026 – Present

- Formulated a research question on population density, transportation access, and health outcomes using LA-metro public data; cleaned and analyzed it in Python (Pandas, NumPy)
- Critically evaluated AI-generated insights (Claude, ChatGPT) against source data before use, identifying a “health desert” effect that informed a transit-first policy recommendation

ClearHealth AI (DenialShield CA) — Founder | June 2026 – Present

- Building an AI platform generating health insurance appeal letters for underserved language communities across California (10+ languages), grounded in a Knox-Keene Act / DMHC IMR / ACA / ERISA legal knowledge base
- Built an explicit “no legal basis to appeal” pathway that returns a structured, written rationale instead of generating a misleading appeal — honest, evidence-based feedback over surface-level helpfulness

Harvard Undergraduate Microbiology Society — Blog Writer | April 2025 – Present

- Authored a series of technical features on molecular functions and machine learning, gathering 100+ documented reader engagements on the Harvard Undergraduate Platform on Medium
- Wrote on microbial interactions, flu-epidemic school safety, and a technical breakdown of neural network use in clinical diagnostics and epidemiological modeling

Stanford Molecular Imaging Mini Fellowship — Research Fellow | June 2025 – August 2025

- Conducted a narrative literature review and critical analysis of peer-reviewed research on convolutional neural networks and multimodal medical imaging (MRI, PET, optoacoustic) for early cancer detection
- Authored a technical research paper and presentation translating complex AI and imaging methodology — including model validation approaches and reliability metrics like ICC — into clear, well-evidenced writing for a broader audience

International Review in STEM (IRIS) — Founder, President & Staff Writer | January 2025 – June 2026

- Founded and grew an international contributor network across 30–40 nations at its peak; authored 12 articles on biotech, AI, and personalized medicine for the organization's self-published platform
- Led editorial strategy and outreach, including efforts to build partnerships with Stanford University and Synthica

Immunova AI — Health Content Writer | February 2025 – August 2025

- Contributed to research and communication pieces bridging technical AI concepts and public policy, supporting outreach that led to invitations to the UN General Assembly science fair and NVIDIA Inception
- Consulted on youth-led tech initiatives integrating with university hospital networks at Stanford, Yale, Columbia, and the National University of Singapore

CSR-X Computational Biology Cohort — Mentor | June 2025 – August 2025

- Mentored 8 international high school students in developing an AI-powered diagnostic framework and database for Marfan Syndrome
- Co-led a bioinformatics curriculum on gene analysis and protein modeling, supporting research on AI applications in oncology

Red Envelope Collective (Orange County) — Regional Lead | October 2024 – March 2025

- Researched and authored a 25-page health equity policy brief delivered to a U.S. congressional office, analyzing disparities in diabetes, cancer, and mental health for AANHPI communities
- Mobilized a coalition supporting cultural health and representation workshops across 75+ classrooms, reaching 30,000+ students, parents, teachers, and administrators

Additional: Devil Pups Leadership Program — U.S. Marine Corps youth leadership program focused on teamwork and discipline

LANGUAGES, COURSES & CERTIFICATIONS

Languages: Vietnamese (Proficient, State Seal of Biliteracy) • French (Elementary)

AI & Technical: Claude 101 (Anthropic Academy) • AI in Healthcare (IBM SkillsBuild) • Google AI Essentials • Essentials of Prompt Engineering (AWS) • Foundation Certified in Cybersecurity (Cyberforward Academy)

Health & Safety: OSHA 10-Hour (General Industry) • American Red Cross First Aid/CPR/AED • ServSafe California Food Handler

Additional Coursework: International Women's Health and Human Rights (Stanford Online) • Introduction to the Incident Command System (FEMA / National Disaster Management University)