

Lang Leo Xiong

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EDUCATION

Stanford University

B.S. Computer Science

Stanford, CA

Expected June 2029

Langley High School

4.70 W / 4.0 UW GPA (top 1% of class), 1570 SAT, 5s on all 16 AP exams

McLean, VA

Aug. 2022 – June 2026

EXPERIENCE

Research with Berkeley, Stanford, and MIT

June 2024 – Present

Independent research collaborations

Remote

- Measured LLM evaluation awareness with linear probes; separated genuine from fake hardness in Terminal-Bench tasks
- Annotated a 7-subtype sarcasm dataset and evaluated SOTA models on classification and generation tasks
- Built a multilingual mental manipulation benchmark for cross-lingual detection
- Created masked and unmasked pancreatic CT datasets and evaluated ResNet accuracy; sole author, ACM BCB 2025

Research Intern, EDIT Lab

June 2025 – Present

Dartmouth Hitchcock Medical Center

Remote

- Leading a team building a cell segmentation pipeline across 23 bone marrow slides with 7,422 annotations
- Implemented HoVer-Net segmentation (0.70 mean Dice) and a graph attention network classifying 11 cell types

Independent Researcher, Material Science

Aug. 2023 – Present

Self-directed

McLean, VA

- Engineered an algal bioplastic across 11 prototypes and a geopolymer concrete alternative optimized with ML models
- 2x ISEF Finalist** (under 1% acceptance rate); oral presentation accepted at the 16th Intl. Conference on Eco-materials

Market Analyst Intern

May 2025 – Dec. 2025

Reinsurance Group of America

Remote

- Built interpretable ML models for mortality prediction to price insurance, plus stock and cash flow forecasting
- Evaluated 20+ early-stage AI startups from Plug and Play; technical fit reports led to 5 product demo meetings

Research Intern, CASE Lab

June 2025 – Present

University of Maryland

Remote

- Contributed to CogniPair, a Global Workspace Theory agent architecture; digital twins matched user choices 74%
- Extended the system in CogniBit, a deployed social app, and TacGen, a vision-to-touch tactile model

NOTABLE PUBLICATIONS (23 CITATIONS)

Probe-Rewrite-Evaluate: Reliable Benchmarks and Quantifying Evaluation Awareness (*First author, NeurIPS Workshop 2025*)

Sarc7: Evaluating Sarcasm Detection and Generation (*First author, COLM and EMNLP Workshops 2025*)

What Makes a Terminal-Bench Task Hard? Separating Genuine Hardness from Fake-Hardness (*NeurIPS Workshop 2026*)

PROJECTS

Ultrasound Scoliosis Detection | CNN, ultrasound imaging, laser cutting, George Mason

June 2024 – Aug. 2025

- Used new quantitative ultrasound technology to detect bone density imbalances along the spine, indicating curvature
- Trained a CNN to distinguish scoliotic from normal spines; filed provisional patent 63/860,109

Autonomous Underwater Vehicle | Raspberry Pi 5, PCB design, ESCs, George Mason

June 2025 – Aug. 2025

- Achieved 6 directions of movement using two-axis control and a shifting center-of-gravity mechanism

FTC Robotics | Java, Onshape, Captain of 14-member team

Fall 2022 – June 2026

- Built autonomous path planning in Java using dead-wheel odometry, encoder feedback, PID tuning, and AprilTag vision
- Designed custom intake-outtake parts in Onshape and drove the scoring sequence with a state machine

CyberPatriot | Windows 10, Cisco Packet Tracer

Aug. 2022 – June 2026

- Led a team of 5 remediating injected vulnerabilities on Windows 10 images; 2x Platinum and 2x Gold division
- Built and troubleshoot network topologies, routing, and access control in Cisco Packet Tracer

TECHNICAL SKILLS

Languages: Python, C++, C, Java, TypeScript, JavaScript, SQL, Bash, HTML, CSS

Frameworks: React, Next.js, Node.js, FastAPI, REST APIs, PyTorch, TensorFlow, Keras, scikit-learn, JAX

Libraries & Hardware: NumPy, pandas, Hugging Face, OpenCV, Arduino, Raspberry Pi, PCB design, CAD, laser cutting

Tools: Git, Docker, AWS, Google Cloud, PostgreSQL, SQLite, Firebase, Jupyter, pytest, Linux, Cisco Packet Tracer

AWARDS

Jane Street ML Summit Participant | **Coca-Cola Scholar** (1 of 150 from 107,000+) | **LinkedIn Possibilities in Tech Scholar** (1 of 25) | **US Chess National Master** | **2x AIME Qualifier** | **USAPhO Semifinalist** | **Eagle Scout**