

Qianheng Xu

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EDUCATION

Cornell University

Bachelor of Arts in Computer Science & Mathematics, Minor in Linguistics

Ithaca, NY

Expected Grad. May 2030

WORK EXPERIENCE

FluencyAI LLC

June 2026 – August 2026

Software Engineering Intern

- Developed in-browser end-to-end solutions to transcribing and correcting impaired speech in real time
- Reduced latency of speech correction to ≤ 1 sec

Sync Labs

June 2024 – Sept. 2024

AI Research/Engineering Intern

Philadelphia, PA

- Led development of facial and action recognition models (FaceNetV2, MoViNet) to provide personalized health information (exercise, diet, nutritional intake) for residents in senior homes

RESEARCH

TerraFormer: A Multimodal Latent World Model for Soil Dynamics

Regeneron ISEF

Independent Researcher

2026

- Implemented the first latent-space, autoregressive world model for soil modeling
- Achieved SOTA accuracy ($\geq 0.9R^2$) across 38 different soil variables (moisture, temperature, LAI)
- Demonstrated accuracy in long-horizon predictions up to 1 year

StutterZero: End-to-End Speech Correction for Stuttering

IEEE ACCESS

Independent Researcher

2025

- Developed encoder-decoder and Transformer models using Pytorch to transcribe and correct stutters from speech signals
- Improved on SOTA accuracy in stutter correction with end-to-end architecture
- github.com/justanotherinternetguy/StutterZero

Characterizing Percussive Damage in Fossil Wood

George Washington University, Chen Lab

Research Intern

Sept 2023 – June 2025

- Applied VGG16/19, ResNets & Haralick texture features to identify and classify damage on fossil wood samples caused by primate tools
- Linked results to archaeology, bridging primatology with computational analysis
- Co-authored primatology/archaeology study under mentorship of Prof. Chen Zeng

AWARDS

1st Place Grand Award – International Science and Engineering Fair Computational Biology | May 2025

3rd Place Grand Award – International Science and Engineering Fair Software Design | May 2026

1st Place – New Jersey Academy of Science Health & Medicine | May 2025

1st Place Gold – Shing-Tung Yau Science Award Biology | Nov 2025

Semifinalist & Honorable Mention – USA Biology Olympiad Top 5-10% nationally | 2023, 2024

Gold – British Biology Olympiad Top 5% internationally | 2024

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL (Postgres), Javascript

Frameworks: Pytorch, Tensorflow, React, Node.js, Flask, FastAPI