

Junhua Huang

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EDUCATION

University of California, Los angles

Master of Electrical computer engineering

Los Angeles, CA

anticipated July 2027

University of Rochester

BS in Computer Science, BS in Business, Cluster in Studio Art

Rochester, NY

May 2025

- Highest distinction, cum laude , Dean's list 8/8semesters , Schwartz Discover research Grant 2022

ENGINEERING EXPERIENCE

University of California, Los angles

Student Researcher, ECE Department, Seizure Lab

La, CA

Aug 2025-Oct 2025

- **Scaled** VLM inference:deployed 3 models, boosted throughput **16.7×** (0.3→5 rps) via **asynchronous** request batching, optimized latency by introducing a caching layer using prefix-cache hit ~**73%**.
- Built a medical visual dataset of **10k** records on **8** features on epilepsy seizure.**CVPR** 2026 underreview

University of Rochester, Computer Science Department

Student Researcher, Professor Chenliang xu's lab

Rochester, NY

May 2025-Sep2025

- Conducted research on **VLM**-guided audio remixing's improvement;transfer experience from traditional movie composers. Achieved **SOTA** with ~**9%** fewer parameters using a simplified architecture and prompt-variant sweeps; **First author**,submitted at **IEEE ICASSP** 2026.
- Built an **async**, sharded caption-embedding pipeline; boosted throughput **16×** and raised KV-cache hits **6%→57%** via chunking + prefix-cache; prototyped gated fusion & muti-head attention Module.

University of Rochester, Computer Science Department

Student Researcher, Professor Jiebo Luo's lab

Rochester, NY

Aug 2024 - Apr 2025

- Reconstructed animal images from skeletons using **Stable Diffusion (I2I)**; applied **partial diffusion** to retain segmentation and **sparse-cloud encoders** to inject spatial cues—bridging long domain gaps.
- Improved facial realism via **RLHF (DPO)** with **LoRA** fine-tuning; built preference pairs and tuned prompts/schedules on UR Linux clusters.

Farsee2

Machine Learning Internship

Wuhan, China

July 2024 - Sep 2024

- Cut floating artifacts ~**40%** in Gaussian Splatting by adding **angle-of-incidence** and depth/normal supervision losses for better geometric consistency.
- Built customizable generation scripts with multi-machine parallelism; integrated into the product pipeline to improve throughput and reliability for prototype demo.

Goergen Institute for Data Science

Student Research ,University of Rochester

Rochester, NY

Jan 2024 - Jun 2024

- Designed **two ideology-bias metrics** and a **blind-test harness**; automated data collection and reproducible scoring for LLM political-ideology evaluation.
- Found LLMs rate manifestos ~**73.64% less extreme** than ground truth; paper **accepted** in *Journal of Political Institutions & Political Economy* (**SSRN**: <https://ssrn.com/abstract=4907043>).

PROJECTS

Body Signals Analysis of Smoking and Drinking

Sep 2023 - Dec 2023

- Preprocessed over 900k records by selecting relevant attributes through feature engineering applied **PCA** to **2 principal + 2 auxiliary components**, capturing the dominant variance for compact modeling.
- Trained **SVM** and **XGBoost** for 5 categories of smoking/drinking prediction with **72/81% accuracy**.

RESEARCH PAPER AND PREPRINTS

- **Caliskan, Cantay and Huang, Junhua** and Huang, Yiyang and Lin, Ruoxuan and Shan, Wanting, Using Generative AI to Calculate Party Positions: A Comparison of Human Experts and Large Language Models (July 26, 2024). Available at **SSRN**: <https://ssrn.com/abstract=4907043>
- Pinxin Liu, Luchuan Song*, **Junhua Huang**, Chenliang Xu, GestureLSM: Latent Shortcut based Co-Speech Gesture Generation with Spatial-Temporal Modeling. **ICCV 2025**,<https://arxiv.org/abs/2501.18898>
- **Junhua Huang***, Chao Huang, chenliang xu, Semantic Visually-Guided Acoustic Highlighting with Large Vision-Language Models. Submitted to **ICASSP** 2026(Sep 17,2025).