

Harry Junhua Huang

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Education

University of rochester, BS in Computer Science, BS in Buesiness – Rochester, NY , USA Aug 2021 – present
• GPA 3.85/4.0, Discover Research grant reciver 2022(\$5000), dean list 7/7 semester

Experience

Computer Vision Researcher, Professor Jiebo Luo's Vista lab, UofR CS – Rochester, NY Aug 2024 – present
• Research on **3D consistency** in image-to-image generation across long domain gaps (skull2animal head).
• Enhanced **Stable Diffusion** with **RLHF-DPO** and **LoRA** attention processors; **Fine-tuned ResNet** reward model and introduced sparse-cloud encoders, elevating evaluation accuracy to **94%**.
• Achieved skull-to-realistic-animal-head generation with consistent **3D** geometry via reinforcement learning; applied Direct Preference Optimization with **LoRA** to refine **Stable Diffusion**.

Generative AI Internship, Farsee2 – Hybrid June 2024 – Sept 2024
• Reduced point-cloud rendering error in **Gaussian Splatting** 3D reconstruction by **40%** through depth-loss supervision and camera-angle & surface-normal regularization.
• Built a customizable parallel depth-generation pipeline, processing **80 000** drone-city depth images **90%** faster and enabling near real-time product demos.

LLM-NLP research, Goergen Institute for Data Science, UofR – Rochester, NY Jan 2024 – Aug 2024
• Authored and published research on generative fairness & bias in **LLMs** for political-ideology classification; introduced **hierarchical weighted classifiers** and a **BERT-based** semantic-scoring mechanism; evaluated inductive bias across **GPT-3.5**, **Llama-2**, and **Cohere**, **Gemini** models.
• Automated data collection with **Python** and REST APIs, reduce time by **85%** and ensuring reproducible pipelines.

Projects

OpenJDK16u/21u contributor [↗](#) Aug 2023 – Dec 2023
• Wrote and published as tep-by-step installation guide in Github for deploying the JDK-11u Linux testing. [↗](#)
• Tested for threepull requests which were accepted and two merged to the OpenJDK repository.

IMDB Database Aug 2023 – Dec 2023
• Lead teams of 3, developpe a BCNF data base with 9000+ data of movies and shows with a encrypted login system and customized functions for CRUD operations; reduce the lag by 60% by redesigned refreshing policy.

Body Signals Analysis of Smoking and Drinking Aug 2023 – Dec 2023
• Preprocessing over 70k+ body signals data.Developed 2 models with 81% accuracy on + using SVM, XGBoost, and PCS techniques; visualized data trends using Seaborn and Matplotlib.

Publications

GestureLSM: Latent Shortcut based Co-Speech Gesture Generation with Spatial-Temporal Modeling [↗](#) Jan 2025
Pinxin Liu, Luchuan Song*, **Junhua Huang**, Chenliang Xu

Using Generative AI to Calculate Party Positions: A Comparison of Human Experts and Large Language Models [↗](#) July 2024
Caliskan, Cantay, **Huang, Junhua**, Huang, Yiyang, Lin, Ruoxuan, Shan, Wanting

Skills

Programming: Java, Kotlin, Python, R, MatLab, MySQL, HTML, CSS, JavaScript, PHP, MySQL, Git