

# Jiantang Huang

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## Skills

- Python, C/C++, Go, Java, Bash
- MLflow, LLM Fine-tuning, Chain-of-Thought (CoT) Distillation, Git, CMake, unit/integration testing; Microsoft Azure; security & OSS maintenance (Apache, Zlib); TensorFlow, OpenCV, Reinforcement Learning; Machine Learning; Docker; LLM, NLP, Camera Calibration, Feature Detection (Harris/SURF), 3D Projection; OpenCV, transformer, RAG

## Education

### Northeastern University

Aug 2023 - Dec 2025

Master in Computer and Information Science

### The Ohio State University

Aug 2017 - May 2021

B.S. in Financial Mathematics, minor in Computer Information Science

## Work Experience

Jul 2021 - Oct 2022

### HUAWEI TECHNOLOGIES CO., LTD.

Software Engineer

Design and develop software for the IT application layer, distributed cloud-based software, Internet software, etc. using advanced methodologies like Agile, DevOps, and open source.

- Implement product lifecycle management from customer requirements to software product definition, architecture design, development implementation, go-live, operation, and maintenance.
- Creatively solve technical difficulties in product realization, and improve core competitiveness of products with cutting-edge technologies, such as distributed systems, performance optimization, reliability, and databases.

## Project Experience

Feb 2026 - Mar 2026

### Boundary-Aware Dialogue Analysis for LLM-based Social Agents

Researcher

- Built an experimental framework to evaluate social boundary failures in large language model conversations.
- Designed controlled dialogue scenarios and prompt conditions to test model responses in workplace and interpersonal contexts.
- Generated insights for improving AI conversation safety and boundary-aware dialogue systems.

Jan 2026 - Mar 2026

### Gemini 3 global hackathon - AI Dancing Coach

Developer

- Built an AI-powered dance coaching system that evaluates user performance by comparing dance videos with reference choreography.
- Integrated Gemini to interpret motion differences and generate technique feedback.
- Designed a Retrieval-Augmented Generation (RAG) framework that retrieves dance technique knowledge and choreography guidelines to produce context-aware coaching suggestions.
- Project link: <https://ai.studio/apps/drive/15Pkj04c1UqV96GAssYziEvZvtPqLruYn>

Sep 2026 - Dec 2025

### Chain-of-Thought Distillation for Reasoning Enhancement

Developer

- Studied chain-of-thought distillation for reasoning alignment by systematically comparing SFT and preference-based RL (DPO, ORPO) on instruction-tuned LLMs
- Fine-tuned Flan-T5-Base (250M) on the CoT Collection (1.8M samples) and evaluated on GSM8K and StrategyQA benchmarks
- Showed that ORPO yields robust reasoning gains under limited compute, improving commonsense accuracy (14.3% → 40.7%) while avoiding PPO cold-start instability

## Certificate & Article

- Microsoft Certified: Azure AI Fundamentals: <https://learn.microsoft.com/api/credentials/share/en-us/JiantangHuang-8344/466977EC556458E8?sharingId=35DAF3CB0BFDE01E>
- Huang, Jiantang "[Slow - Motion Video Synthesis for Basketball Using Frame Interpolation]." arXiv:2511.11644 (2025). <https://biubiugod123.github.io/slow-motion-page/>