

# Yuhang (Jason) Sang

sang0072@umn.edu · github.com/SyhiJason · Minneapolis, MN

## Research Interests

Human-Centered AI, Human-AI Alignment, AI for Human Enhancement, User Research (Quantitative & Qualitative)

## Education

**University of Minnesota – Twin Cities** (Expected Dec 2025)

B.A. in Computer Science, GPA: 3.76

Selected Coursework: Advanced Mathematics (98), Statistics (97), Machine Learning Fundamentals (97), Data Structures (98), C++ (94), Python (90), Big Data Analysis (96), Explainable AI & Visualization (94)

**Beijing Language and Culture University** (Before Transfer)

B.A. in Journalism (in progress)

Representative Courses: News Reporting and Writing (91), Communication Studies (95), Cultural Studies (90), Social Research Methods (93)

## Research Experience

**Research Intern – Duke Kunshan University (DKU)**

May 2025 – Aug 2025

Advisors: Prof. Yucheng Jin, Prof. Hua Shen (NYU)

- Bi-Directional Alignment Modeling with JSON Schema for traceability.
- Critic-Selector Dual-Agent Mechanism adapting to cognitive signals.
- Goal-Action Mapping visualized with dual heatmaps. [Code Link](#)

**Research Intern – Zhejiang University**

Jun 2024 – Sep 2024

Advisor: Wei Xiang

- Knowledge extraction via CFTR framework achieving 90.8% accuracy.
- Multi-agent workflow for integrating fragmented HCI knowledge.
- Developed ImpliSpark tool validated by 21 designers.

**Research Intern – University of Wisconsin-Milwaukee**

Focus: Migrant Workers' Healthcare Ecosystem

Advisors: Lu He, Changyang He

- Conducted in-depth interviews and qualitative coding.
- Applied thematic analysis and ecological modeling.
- Translated findings into ICT design recommendations.

## Additional Experience

**The University of Hong Kong – Data Science & Machine Learning Program (2023)**

**University of Minnesota – Dreamer Model Explainability Project (Sep 2024 – Dec 2024)**

Collaborator: Quoc Nguyen (Ph.D.)

- Investigated Dreamer world models with interactive visualization.
- Built accessible prototypes for designers and researchers.

## Skills

- Design Systems & Handoff: tokens, component libraries, interaction patterns, documentation
- AI & Workflows: LLM orchestration, prompt engineering, explainability
- Frontend & Tools: React, Node.js, Python, C++, OCaml, SQL, PyTorch, Git, Web Scraping, CSS
- Communication: collaboration, research writing (LaTeX), presentations