Suyang Hou

📞 (+86) 177 · 5666 · 5573 | 🏠 GitHub | ✉ Rico's email

Education

Central South University   **Changsha, China**
Master Student, *Computer Science*   Sep.2025 - Jun.2028(exp.)
Advisor: Prof. Alex Jinpengwang

ZhongNan University of Economics and Law   **Wuhan, China**
B.S., *Big Data Management and Application & Financial Engineering (Dual Degree)*   Sep.2021 - Jun.2025
GPA: 3.88 / 4.0

Research Experience

Donghu Big Data Exchange   **Wuhan, China**
Research Intern   Jun.2025 - Sep.2025
Research topic: LLM, data mining

Research Interests

- **Multimodal Language Models**: Multilingual, Mechanism, Representation Learning

- **Image Editing**: FlowMatching, MasaControl, distillation, DiT

- **AI4Science**: Bioinformatics

Publications   [Google Scholar]

†→ Equal contribution

[1] KaichenXu, YanLu†, **SuyangHou**† Detecting anomalous anatomic regions in spatial transcriptomics with STANDS. **Nature Communications**.

[2] JiayingHu, YihangDu, **SuyangHou**, YueyangDing, JinyanLi, HaoWu, XiaoboSun. CEMUSA: A Graph-based Integrative Metric for Evaluating Clusters in Spatial Transcriptomics. **Bioinformatics**, btag056 (2026).

[3] YihangDu, JiayingHu, **SuyangHou** A methodological framework for measuring spatial labeling similarity. **IJCAI 2025**.

[4] KaichenXu†, YueyangDing†, **SuyangHou** Domain adaptive and fine-grained anomaly detection for single-cell sequencing data and beyond. **IJCAI 2024**.

Preprints

[1] Glance: Accelerating Diffusion Models with 1 Sample. arXiv preprint arXiv:2512.02899v2, 2025. **Under PeerReview ECCV 2026**.

[2] Pixel-Level Instruction Alignment for All-in-Image Editing. **Under PeerReview ECCV 2026**.

[3] Internalize External Competence for Visual Instruction Editing. **Under PeerReview ECCV 2026**.

Selected Awards & Honors

Outstanding Student Scholarship, ZhongNan University of Economics and Law   2025

Professional Skills

Programming Language	Python, R, C++, SQL, Matlab
Tools & Skills	Git, LaTeX, Linux, PyTorch
English	CET6