

Zoey (Zhiyao) Shu

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Computer vision; Human-AI Collaboration

Publications

- **[ECCV 2026 Spotlight]** Zhiyao Shu, Jiacheng Yang, Yang Lu, Waishan Qiu, Chuan Li, Da Chen. *Lost in the Tail: Addressing Geographic Imbalance in Urban Visual Place Recognition*, 2026
- **[EMNLP 2026 Full Paper]** Zhimin Lin, Kun Cheng, Zhiyao Shu, Junhua Fang, Juntao Li, Fan Bai, Jie Gao. *Agent-as-Peer-Debrief: A Multi-Agent Framework with Perspective-Based Refinement for Qualitative Analysis*, 2026
- **[preprint]** Zhiyao Shu, David Porfirio. *Bayesian Multimodal Plan Inference from Speech, Pointing, and Facial Cues for Human-Robot Interaction*, 2026
- **[preprint]** Jie Gao, Zhiyao Shu, Shun Yi Yeo, Alok Prakash, Chien-Ming Huang, Mark Dredze, and Ziang Xiao. *Efficiency with Rigor! A Trustworthy LLM-powered Workflow for Qualitative Data Analysis*. arXiv preprint arXiv:2501.00775 (2025).
- **[CIKM 2024 Oral]** Zhiyao Shu, Xiangguo Sun, Hong Cheng. 2024. *When LLM Meets Hypergraph: A Sociological Analysis on Personality via Online Social Networks*. In Proceedings of the 33rd ACM International Conference on Information and Knowledge Management (CIKM 24). Association for Computing Machinery, New York, NY, USA, 2087-2096. <https://doi.org/10.1145/3627673.3679646>

Experiences

Graduate Teaching Assistance

George Mason University

Fairfax

Aug 2025 - Present

Research Intern

Singapore-MIT Alliance for Research & Technology Center

Remote

Jun 2024 - Mar 2025

Software Engineer

Nexa AI

San Jose, CA

Jan - Jun 2024

Skills

- **Machine learning:** Linear regression, Logistic regression, Reinforcement Learning
- **Neural Network:** Large language model (LLM), Graph neural network (GNN), Convolutional neural network (CNN), Transformers
- **Programming:** Python, Javascript/Typescript, React.js, Node.js, MongoDB, HTML/CSS, Java, Next.js, MySQL
- **App development & Platform:** Github, Docker, Linux, Google Cloud Platform (GCP)

Education and Certification

George Mason University.

Ph.D. of Information Science and Technology

Fairfax, VA

Aug 2025 - Present

University of California, Berkeley

Master of Landscape Architecture

Berkeley, CA

Aug 2018 - Jun 2020

Colorado State University

Bachelor of Science

Fort Collins, CO

Aug 2014 - Aug 2018