

Yejie Guo

📍 California, USA ✉ yejieguo@ucmerced.edu 🌐 github.com/gyj155 🔗 LinkedIn 🔗

Education

University of California, Merced PhD Student, advised by Prof. Ming-Hsuan Yang	Merced, USA 2026.09 – Now
Shanghai Jiao Tong University B.Eng. in Artificial Intelligence (Honor Class)	Shanghai, China 2022.09 – 2026.06
École Polytechnique Fédérale de Lausanne (EPFL) Semester Exchange	Lausanne, Switzerland 2024.08 – 2025.01

Publications

Pursuing Minimal Sufficiency in Spatial Reasoning

Yejie Guo^{}, Yunzhong Hou^{*}, Wufei Ma, Meng Tang, Ming-Hsuan Yang[†]*

ICLR 2026 [\[paper\]](#) [\[code\]](#)

A dual-agent framework for extracting minimal sufficient information for spatial reasoning.

Edit3r: Instant 3D Scene Editing from Sparse Unposed Images

Jiageng Liu, Weijie Lyu, Xueting Li, Yejie Guo, Ming-Hsuan Yang[†]

ECCV 2026 Oral [\[paper\]](#) [\[project page\]](#) [\[code\]](#)

A feed-forward framework for fast 3D editing from sparse unposed images.

Revisiting Articulated Parts Perception in Robot Manipulation

Xiaoqian Wu, Yejie Guo, Xiaoyang Chen, Lixin Yang, Cewu Lu, Yong-Lu Li[†]

CVPR 2026 Findings [\[paper\]](#) [\[project page\]](#) [\[code\]](#)

A scalable framework for articulated-part perception and generalizable manipulation.

M³-VOS: Multi-Phase, Multi-Transition, and Multi-Scenery Video Object Segmentation

Zixuan Chen^{}, Jiaxin Li^{*}, Liming Tan, Yejie Guo, Junxuan Liang, Cewu Lu, Yong-Lu Li[†]*

CVPR 2025 [\[paper\]](#) [\[project page\]](#) [\[code\]](#)

A benchmark and method for segmenting objects through complex visual transitions.

Projects

SearchPaperByEmbedding <https://github.com/gyj155/SearchPaperByEmbedding> 🔗

- Developed an open-source research tool utilizing semantic embeddings to retrieve academic papers based on abstract similarity, improving literature review efficiency over keyword search.
- Garnered 400+ stars on GitHub, widely adopted by the community for discovering relevant literature.

Skills

Programming Languages: Python, C++/C, Bash, L^AT_EX

Tools and Frameworks: PyTorch, LLaMA-Factory, Git, Docker