Haoran Chen

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EDUCATION

▶ **Fudan University, Shanghai, China** June 2026
Ph.D. in Computer Science (expected)
Advisor: **Prof. Yu-Gang Jiang** and **Prof. Zuxuan Wu**

▶ **University of Michigan, MI, USA** May 2020
B.S. Double Major in Pure Mathematics and Statistics
B.S. Minor in Computer Science

RESEARCH INTERESTS & PROPOSALS

My research centers on **computer vision**, with particular emphasis on **image understanding**, **vision–language models**, and **large multimodal systems**. I have published **8** papers in top-tier AI conferences and journals, primarily focusing on **transfer learning** and **continual learning**, which enable models to adapt efficiently to new domains and tasks while mitigating catastrophic forgetting. In the long term, I seek to extend continual learning principles to broader AI systems and tasks, as I believe this represents a crucial step toward achieving artificial general intelligence.

PUBLICATIONS

1. **Human2Robot: Learning Robot Actions from Paired Human-Robot Videos.** [pdf]
   Sicheng Xie, Haidong Cao, Zejia Weng, Zhen Xing, **Haoran Chen**, Shiwei Shen, Jiaqi Leng, Zuxuan Wu, Yu-Gang Jiang
   The Association for the Advancement of Artificial Intelligence (**AAAI**), 2026.

2. **Achieving More with Less: Additive Prompt Tuning for Rehearsal-Free Class-Incremental Learning.** [pdf] [code]
   Haoran Chen, Ping Wang, Zihan Zhou, Xu Zhang, Zuxuan Wu, Yu-Gang Jiang
   International Conference on Computer Vision (**ICCV**), 2025

3. **ForgerySleuth: Empowering Multimodal Large Language Models for Image Manipulation Detection.** [pdf]
   Zhihao Sun, Haoran Jiang, **Haoran Chen**, Yixin Cao, Xipeng Qiu, Zuxuan Wu, Yu-Gang Jiang
   Advances in Neural Information Processing Systems (**NeurIPS**), 2025

4. **EDEN: Enhanced Diffusion for High-quality Large-motion Video Frame Interpolation.** [pdf]
   Zihao Zhang, **Haoran Chen**, Haoyu Zhao, Guansong Lu, Yanwei Fu, Hang Xu, Zuxuan Wu
   Computer Vision and Pattern Recognition (**CVPR**), 2025

5. **Adaptive Retention & Correction: Test-Time Training for Continual Learning.** [pdf] [code]
   Haoran Chen, Micah Goldblum, Zuxuan Wu, Yu-Gang Jiang
   International Conference on Learning Representation (**ICLR**), 2025

6. **PromptFusion: Decoupling Stability and Plasticity for Continual Learning.** [pdf] [code]
   Haoran Chen, Zuxuan Wu, Xintong Han, Menglin Jia, Yu-Gang Jiang.
   European Conference on Computer Vision (**ECCV**), 2024.

7. **A Survey on Diffusion Models.** [pdf] [code]
   Zhen Xing, Qijun Feng, **Haoran Chen**, Qi Dai, Han Hu, Hang Xu, Zuxuan Wu, Yu-Gang Jiang.
   ACM Computing Surveys, 2024 (IF:28.0).

8. **Multi-Prompt Alignment for Multi-Source Unsupervised Domain Adaptation.** [pdf] [code]
   Haoran Chen, Xintong Han, Zuxuan Wu, Yu-Gang Jiang.
   Advances in Neural Information Processing Systems (**NeurIPS**), 2023.

IN SUBMISSION

1. **Multi-Prompt Progressive Alignment for Multi-Source Unsupervised Domain Adaptation.** [pdf]
   Haoran Chen, Zexiao Wang, Haidong Cao, Zuxuan Wu, Yu-Gang Jiang.
   In Submission to IEEE Transactions on Pattern Analysis and Machine Intelligence (IF:18.6).

2. **Optimal Transport Guided Memory Calibration for CLIP-based Class-Incremental Learning.**
   Haoran Chen, Houze Xu, Micah Goldblum, Daoguo Dong, Zuxuan Wu, Yu-Gang Jiang.
   In Submission to The IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2026.

3. **CFDiffusion: Toward Consistent and Faithful Human Image Animation with Diffusion Models.**
   Haoyu Zhao, **Haoran Chen**, Jiaxi Gu, Qingping Zheng, Zhongang Qi, Yeying Jin, Yu-Gang Jiang
   In Submission to IEEE Transactions on Image Processing (IF:13.7).

4. **CameraNoise: Learning Precise Camera Control with Video Diffusion in Noise Space.**
   Haoyu Zhao, Jiaxi Gu, **Haoran Chen**, Qingping Zheng, Yeying Jin, Hongyi Yang, JunqiCheng, Yuang Zhang, Zenghui Lu, Huan Yu, Jie Jiang, Peng Shu, Zuxuan Wu
   In Submission to International Conference on Learning Representations (**ICLR**), 2026.

ACADEMIC SERVICES

► Conference Reviewer for ICCV' 23, NeurIPS' 23, CVPR' 24, ECCV' 24, CVPR' 25, ICCV' 25, NeurIPS 25', AAAI 26', CVPR 26'.
► Journal Reviewer for TPAMI, TMM.

REFERENCE

1. Yu-Gang Jiang
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3. Micah Goldblum
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