

# Haoran Chen



U.S. Permanent Resident



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## EDUCATION

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► **Fudan University, Shanghai, China**

Ph.D. in Computer Science

Advisor: **Prof. Yu-Gang Jiang** and **Prof. Zuxuan Wu**

June 2026

(expected)

► **University of Michigan, MI, USA**

B.S. Double Major in Pure Mathematics and Statistics

B.S. Minor in Computer Science

May 2020

## RESEARCH INTERESTS & PROPOSALS

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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

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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

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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. **Preserving Cross-Modal Consistency 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. **Free of Optical Flow: A Real-Time End-to-End Unsupervised Video Object Segmentation Framework with Internal Motion Extraction.**  
Xiangyu Zheng, Songcheng He, Wanyun Li, **Haoran Chen**, Meng Tian, Hang Xu, Wei Zhang, Zuxuan Wu  
In Submission to The IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2026.
4. **CFDiffusion: Toward Consistent and Faithful Human Image Animation with Diffusion Models.**  
Haoyu Zhao, **Haoran Chen**, Jiayi Gu, Qingping Zheng, Zhongang Qi, Yeying Jin, Yu-Gang Jiang  
In Submission to IEEE Transactions on Image Processing (IF:13.7).
5. **CameraNoise: Learning Precise Camera Control with Video Diffusion in Noise Space.**  
Haoyu Zhao, Jiayi Gu, **Haoran Chen**, Qingping Zheng, Yeying Jin, Hongyi Yang, Junqi Cheng, Yuang Zhang, Zenghui Lu, Huan Yu, Jie Jiang, Peng Shu, Zuxuan Wu  
In Submission to International Conference on Learning Representations (**ICLR**), 2026.

## ACADEMIC SERVICES

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- 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

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1. Yu-Gang Jiang  
Professor  
The Institute of Trustworthy Embodied Artificial Intelligence  
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2. Zuxuan Wu  
Associate Professor  
The Institute of Trustworthy Embodied Artificial Intelligence  
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[zxwu@fudan.edu.cn](mailto:zxwu@fudan.edu.cn)
3. Micah Goldblum  
Assistant Professor  
Department of Electrical Engineering  
Columbia University, New York, U.S.  
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