

Xiaoyan Cong

Providence, RI | xiaoyan_cong@brown.edu | Homepage: Oliver-Cong02.github.io/ | +1 (401) 500-3107

Education

Brown University , Ph.D. Student of Computer Science	Sep 2024 – Present
• Advisor: <i>Professor Srinath Sridhar</i>	
Zhejiang University , B.Eng. in Robotics Engineering, Chu Kochen Honor College	Sep 2020 – Jun 2024
• GPA: 3.99/4.0	
Hong Kong University of Science and Technology , Exchange Student	Jan 2023 – Jun 2023
• Dean's List	

Internship

Bytedance Inc. Research Scientist Intern, San Jose	Jun 2025 – Present
• Advisor: <i>Chongyang Ma</i>	
• Topic: Video Editing Foundation Model, RL Post-Training	

Publications

VIVA: VLM-Guided Instruction-Based Video Editing with Reward Optimization	Nov 2025
<i>Xiaoyan Cong</i> , Haotian Yang, Angtian Wang, Yizhi Wang, Yiding Yang, Canyu Zhang, Chongyang Ma	
<i>Under Review</i>	
DyTact: Capturing Dynamic Contacts in Hand-Object Manipulation	May 2025
<i>Xiaoyan Cong</i> , Angela Xing, Chandradeep Pokhariya, Rao Fu, Srinath Sridhar	
<i>3DV 2026 Oral</i> [arxiv: 2506.03103]	
PackUV: Packed Gaussian UV Maps for 4D Volumetric Video	May 2025
Aashish Rai, <i>Xiaoyan Cong</i> , Angela Xing, Zekun Li, Tao Lu, Srinath Sridhar	
<i>Under Review</i>	
Art3D: Training-Free 3D Generation from Flat-Colored Illustration	Apr 2025
<i>Xiaoyan Cong</i> , Jiayi Shen, Zekun Li, Rao Fu, Tao Lu, Srinath Sridhar	
<i>CVPR AI4CC Workshop, 2025, Oral</i> [arxiv: 2504.10466]	
GenHSI: Controllable Generation of Human-Scene Interaction Videos	Mar 2025
Zekun Li, Rui Zhou, Rahul Sajnani, <i>Xiaoyan Cong</i> , Daniel Ritchie, Srinath Sridhar	
<i>Under Review</i> [arxiv: 2506.19840]	
OscillationInversion: Understand the structure of Large Flow Model through the Lens of Inversion Method	Oct 2024
Yan Zheng, Zhenxiao Liang, <i>Xiaoyan Cong</i> , Yi Yang, Lanqing Guo, Yuehao Wang, Peihao Wang, Zhangyang Wang	
<i>Under Review</i> [arxiv: 2411.11135]	
Automatic Controllable Colorization by Imagination	Jun 2024
<i>Xiaoyan Cong</i> , Yue Wu, Qifeng Chen, Chenyang Lei	
<i>CVPR, 2024</i> [arxiv: 2404.05661]	
4DRecons: 4D Neural Implicit Deformable Objects Reconstruction from a single RGB-D Camera with Geometrical and Topological Regularizations	Jun 2024
<i>Xiaoyan Cong</i> , Haitao Yang, Liyan Chen, Kaifeng Zhang, Li Yi, Chandrajit Bajaj, Qixing Huang	
<i>Under Review</i> [arxiv: 2406.10167]	

Research Interests

My research interest lies in broad aspects of Computer Vision, Computer Graphics and Machine Learning topics, more specifically 3D spatiotemporal visual perception, understanding and reasoning of human physical interactions with the world. I am also interested in generative models, with a focus on video generation, video editing, and world models.

Selected Awards and Honors

Excellence Scholarship , by Chu Kochen Honors College, Zhejiang University, Top 1%	2022
Chinese National Scholarship , by Ministry of Education of the People's Republic of China, Top 0.2%	2021
Chunhui Scholarship , by College of Control Science and Engineering, Zhejiang University, Top 1%	2023
Zhejiang Provincial Government Scholarship , Top 2%	2020 - 2022
First-prize Scholarship of Zhejiang University , Top 2%	2020 - 2022