

# Xiaoyan Cong

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

## **Research Interests**

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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**

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