
EDUCATION	<p>The Chinese University of Hong Kong Hong Kong SAR, China <i>Ph.D. in Information Engineering (MMLab)</i> 2021 - 2025 (expected) • Advisor: Prof. Bolei Zhou and Dahua Lin</p> <p>Zhejiang University Hangzhou, China <i>B.E. in Computer Science in Chu KoChen Honors College</i> 2017 - 2021 • GPA: 3.95/4.00, Rank: 1/19</p>
RESEARCH INTERESTS	<p>I am interested in computer vision and generative modeling across various modalities, including image, video, 3D, and 4D data. My current research focuses on training foundation models for 3D and video generation.</p>
PUBLICATIONS	<ol style="list-style-type: none">1. Qihang Zhang, Shuangfei Zhai, Miguel Angel Bautista Martin, Kevin Miao, Alexander Toshev, Josh Susskind, Jiatao Gu. World-consistent Diffusion Models with Explicit 3D Modeling. (<i>in submission</i>)2. Kevin Miao, Harsh Agrawal, Qihang Zhang, Federico Semeraro, Marco Cavallo, Jiatao Gu, Alexander Toshev. DSplats: 3D Generation by Denoising Splats-Based Multiview Diffusion Models. (<i>in submission</i>)3. Jiatao Gu, Yuyang Wang, Yizhe Zhang, Qihang Zhang, Dinghuai Zhang, Navdeep Jaitly, Josh Susskind, Shuangfei Zhai. De-noising Auto-regressive Transformers for Scalable Image Generation. (<i>in submission</i>)4. Qihang Zhang, Yinghao Xu, Chaoyang Wang, Hsin-Ying Lee, Gordon Wetzstein, Bolei Zhou, Ceyuan Yang. 3DitScene: Editing Any Scene via Language-guided Disentangled Gaussian Splatting. (<i>in submission</i>)5. Junge Zhang, Qihang Zhang, Li Zhang, Ramana Kompella, Gaowen Liu, Bolei Zhou. UrbanScenarioGen: infinite Urban Scenario Generation through Occupancy Map. (<i>in submission</i>)6. Qihang Zhang, Chaoyang Wang, Aliaksandr Siarohin, Peiye Zhuang, Yinghao Xu, Ceyuan Yang, Dahua Lin, Bolei Zhou, Sergey Tulyakov, Hsin-Ying Lee. Towards Text-guided 3D Scene Composition. (<i>CVPR 2024</i>)7. Qihang Zhang, Yinghao Xu, Yujun Shen, Bo Dai, Bolei Zhou, Ceyuan Yang. BerfScene: Bev-Conditioned Equivariant Radiance Fields for Infinite 3D Scene Generation. (<i>CVPR 2024</i>)8. Ceyuan Yang, Qihang Zhang, Yinghao Xu, Jiapeng Zhu, Yujun Shen, Bo Dai. Learning Modulated Transformation in GANs. (<i>NeurIPS 2023</i>)9. Jihao Liu, Tai Wang, Boxiao Liu, Qihang Zhang, Yu Liu, Hongsheng Li. Towards Better 3D Knowledge Transfer via Masked Image Modeling for Multi-view 3D Understanding. (<i>ICCV 2023</i>)10. Qihang Zhang, Ceyuan Yang, Yujun Shen, Yinghao Xu, Bolei Zhou. Towards Smooth Video Composition. (<i>ICLR 2023</i>)11. Guanglin Li, Zhichao Ye, Yifeng Li, Qihang Zhang, Tao Kong, Zhaopeng Cui, Guofeng Zhang. Generative Category-Level Shape and Pose Estimation with Semantic Primitives. (<i>CoRL 2022</i>)12. Qihang Zhang, Zhenghao Peng, Bolei Zhou. Learn to Drive by Watching YouTube Videos: Action-Conditioned Contrastive Policy Pretraining. (<i>ECCV 2022</i>)

13. Quanyi Li*, Zhenghao Peng*, Lan Feng, **Qihang Zhang**, Zhenghai Xue, Bolei Zhou. MetaDrive: Composing Diverse Driving Scenarios for Generalizable Reinforcement Learning. (*IEEE TPAMI 2022*)
14. Lan Feng* , **Qihang Zhang*** , Yicheng Liu, Fan Li, Gang Sun, Chunxiao Liu, and Bolei Zhou. IP-MMT: Interaction Prediction via MultiModal Transformer. (*Waymo Open Dataset Challenge 2021*)
15. Quanyi Li*, Zhenghao Peng* , **Qihang Zhang**, Chunxiao Liu, Bolei Zhou. Improving the Generalization of End-to-End Driving through Procedural Generation. (*CVPR Workshop 2021*)
16. Xintian Wu, **Qihang Zhang**, Yiming Wu, Huanyu Wang, Songyuan Li, Lingyun Sun, Xi Li. F3A-GAN: Facial Flow for Face Animation with Generative Adversarial Networks. (*IEEE TIP 2021*)

EXPERIENCE

Stanford Computational Imaging Lab Palo Alto, America	2025.01 - 2025.06
<ul style="list-style-type: none"> • Visiting Research Scholar. Supervisor: Gordon Wetzstein • Topic: Multi-modal foundation model 	
Machine Learning Research, Apple Inc. New York, America	2024.05 - 2024.09
<ul style="list-style-type: none"> • Research Intern. Supervisor: Jiatao Gu • Topic: Video and 3D foundation model 	
Creative Vision, Snap Inc. Los Angeles, America	2023.06 - 2023.10
<ul style="list-style-type: none"> • Research Intern. Supervisor: Hsin-Ying Lee and Sergey Tulyakov • Topic: Text-to-3D generation 	
Shanghai Artificial Intelligence Laboratory Shanghai, China	2022.09 - 2023.05
<ul style="list-style-type: none"> • Research Intern. Supervisor: Ceyuan Yang and Bo Dai • Topic: Video generation, infinite scale 3D scene generation 	
Multimedia Lab, CUHK Hong Kong SAR, China	2021.09 - Present
<ul style="list-style-type: none"> • Research Assistant. Supervisor: Bolei Zhou • Topic: Pretraining for visuomotor policy learning 	
Autonomous Driving, SenseTime Inc. Shenzhen, China	2020.09 - 2021.06
<ul style="list-style-type: none"> • Research Intern. Supervisor: Bolei Zhou and Chunxiao Liu • Topic: Driving simulator with procedure generation, traffic prediction 	
DCD Lab, Zhejiang University Hangzhou, China	2019.08 - 2020.07
<ul style="list-style-type: none"> • Research Intern. Supervisor: Xi Li • Topic: Face animation with GAN 	

AWARDS AND HONORS

• CVPR travel award	2024.04
• Hong Kong Postgraduate Fellowship Scholarship (HKPFS)	2021.09
• Vice-Chancellor HKPFS Scholarship, CUHK	2021.09
• National Scholarship, Zhejiang University	2020.09
• National Scholarship, Zhejiang University	2019.09
• Championship of R&D track in ByteCamp, ByteDance	2020.09
• CSST Scholarship, UCLA	2020.03
• SenseTime Scholarship, SenseTime	2019.11
• Pilot Scholarship, Zhejiang University	2020.09
• First-Class of Outstanding Merit Scholarship, Zhejiang University	2020.09
• First-Class of Outstanding Merit Scholarship, Zhejiang University	2019.09
• First-Class of Outstanding Merit Scholarship, Zhejiang University	2018.09

PROFESSIONAL
SERVICES

Reviewing: *NeurIPS 2023, ICLR 2024/2025, CVPR 2024/2025, ICML 2024, Siggraph Asia 2024, AAAI 2024*

Teaching: Information and Software Engineering Practice (IERG 3080), Term1, 2021-2022
Multimedia Coding and Applications (IERG4190/IEMS5707), Term2, 2021-2022