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EDUCATION	<p><b>The Chinese University of Hong Kong</b> <span style="float: right;">Hong Kong SAR, China</span> <i>Ph.D. in Information Engineering (MMLab)</i> <span style="float: right;">2021 - 2025 (expected)</span> • Advisor: Prof. Bolei Zhou and Dahua Lin</p> <p><b>Zhejiang University</b> <span style="float: right;">Hangzhou, China</span> <i>B.E. in Computer Science in Chu KoChen Honors College</i> <span style="float: right;">2017 - 2021</span> • 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"><li>1. <b>Qihang Zhang</b>, 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>)</li><li>2. Kevin Miao, Harsh Agrawal, <b>Qihang Zhang</b>, Federico Semeraro, Marco Cavallo, Jiatao Gu, Alexander Toshev. DSplats: 3D Generation by Denoising Splats-Based Multiview Diffusion Models. (<i>in submission</i>)</li><li>3. Junge Zhang, <b>Qihang Zhang</b>, Li Zhang, Ramana Kompella, Gaowen Liu, Bolei Zhou. UrbanScenarioGen: infinite Urban Scenario Generation through Occupancy Map. (<i>in submission</i>)</li><li>4. <b>Qihang Zhang</b>, Yinghao Xu, Chaoyang Wang, Hsin-Ying Lee, Gordon Wetzstein, Bolei Zhou, Ceyuan Yang. 3DitScene: Editing Any Scene via Language-guided Disentangled Gaussian Splatting. (<i>ICLR 2025</i>)</li><li>5. Jiatao Gu, Yuyang Wang, Yizhe Zhang, <b>Qihang Zhang</b>, Dinghuai Zhang, Navdeep Jaitly, Josh Susskind, Shuangfei Zhai. De-noising Auto-regressive Transformers for Scalable Image Generation. (<i>ICLR 2025</i>)</li><li>6. <b>Qihang Zhang</b>, 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>)</li><li>7. <b>Qihang Zhang</b>, 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>)</li><li>8. Ceyuan Yang, <b>Qihang Zhang</b>, Yinghao Xu, Jiapeng Zhu, Yujun Shen, Bo Dai. Learning Modulated Transformation in GANs. (<i>NeurIPS 2023</i>)</li><li>9. Jihao Liu, Tai Wang, Boxiao Liu, <b>Qihang Zhang</b>, Yu Liu, Hongsheng Li. Towards Better 3D Knowledge Transfer via Masked Image Modeling for Multi-view 3D Understanding. (<i>ICCV 2023</i>)</li><li>10. <b>Qihang Zhang</b>, Ceyuan Yang, Yujun Shen, Yinghao Xu, Bolei Zhou. Towards Smooth Video Composition. (<i>ICLR 2023</i>)</li><li>11. Guanglin Li, Zhichao Ye, Yifeng Li, <b>Qihang Zhang</b>, Tao Kong, Zhaopeng Cui, Guofeng Zhang. Generative Category-Level Shape and Pose Estimation with Semantic Primitives. (<i>CoRL 2022</i>)</li><li>12. <b>Qihang Zhang</b>, Zhenghao Peng, Bolei Zhou. Learn to Drive by Watching YouTube Videos: Action-Conditioned Contrastive Policy Pretraining. (<i>ECCV 2022</i>)</li></ol>

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

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Stanford Computational Imaging Lab</b>   Palo Alto, America                                                                                                                                 | 2025.01 - 2025.06 |
| <ul style="list-style-type: none"> <li>• Visiting Research Scholar. Supervisor: Gordon Wetzstein</li> <li>• Topic: Multi-modal foundation model</li> </ul>                                     |                   |
| <b>Machine Learning Research, Apple Inc.</b>   New York, America                                                                                                                               | 2024.05 - 2024.09 |
| <ul style="list-style-type: none"> <li>• Research Intern. Supervisor: Jiatao Gu</li> <li>• Topic: Video and 3D foundation model</li> </ul>                                                     |                   |
| <b>Creative Vision, Snap Inc.</b>   Los Angeles, America                                                                                                                                       | 2023.06 - 2023.10 |
| <ul style="list-style-type: none"> <li>• Research Intern. Supervisor: Hsin-Ying Lee and Sergey Tulyakov</li> <li>• Topic: Text-to-3D generation</li> </ul>                                     |                   |
| <b>Shanghai Artificial Intelligence Laboratory</b>   Shanghai, China                                                                                                                           | 2022.09 - 2023.05 |
| <ul style="list-style-type: none"> <li>• Research Intern. Supervisor: Ceyuan Yang and Bo Dai</li> <li>• Topic: Video generation, infinite scale 3D scene generation</li> </ul>                 |                   |
| <b>Multimedia Lab, CUHK</b>   Hong Kong SAR, China                                                                                                                                             | 2021.09 - 2025.07 |
| <ul style="list-style-type: none"> <li>• Research Assistant. Supervisor: Bolei Zhou</li> <li>• Topic: Pretraining for visuomotor policy learning</li> </ul>                                    |                   |
| <b>Autonomous Driving, SenseTime Inc.</b>   Shenzhen, China                                                                                                                                    | 2020.09 - 2021.06 |
| <ul style="list-style-type: none"> <li>• Research Intern. Supervisor: Bolei Zhou and Chunxiao Liu</li> <li>• Topic: Driving simulator with procedure generation, traffic prediction</li> </ul> |                   |
| <b>DCD Lab, Zhejiang University</b>   Hangzhou, China                                                                                                                                          | 2019.08 - 2020.07 |
| <ul style="list-style-type: none"> <li>• Research Intern. Supervisor: Xi Li</li> <li>• Topic: Face animation with GAN</li> </ul>                                                               |                   |

## AWARDS AND HONORS

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

PROFESSIONAL  
SERVICES

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