Sixiao Zheng(郑思晓)

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EDUCATION

- **Fudan University** *2023.9 - 2027.6*
  Ph.D. Candidate in Statistics Shanghai
  - Advisor: Yanwei Fu
  - Research Interests: AIGC, Video Generation, Story Visualization

- **Shanghai Innovation Institute** *2024.9 - 2027.6*
  Doctoral Joint-Training Program Shanghai
  - Advisor: Yanwei Fu
  - Research Interests: AIGC, Video Generation

- **Fudan University** *2018.9-2021.6*
  Master in Computer Application Technology Shanghai
  - Advisor: Jianfeng Feng, Yanwei Fu
  - Research Interests: Semantic Segmentation, Object Detection

- **South China Normal University** *2014.9-2018.6*
  Bachelor in Communication Engineering Guangzhou
  - GPA: 3.72/5 (Rank: 8/143)

PUBLICATIONS

World Models & Video Generation

[1] **Sixiao Zheng**, Minghao Yin, Wenbo Hu, Xiaoyu Li, Ying Shan, and Yanwei Fu. VerseCrafter: Dynamic Realistic Video World Model with 4D Geometric Control. **CVPR**, 2026.

[2] **Sixiao Zheng**, Zimian Peng, Yanpeng Zhou, Yi Zhu, Hang Xu, Xiangru Huang, and Yanwei Fu. VidCRAFT3: Camera, Object, and Lighting Control for Image-to-Video Generation. **TVCG**, 2026.

[3] Hengyu Liu, Jiahao Lu, Ruijie Zhu, **Sixiao Zheng**, Yuan Liu, Wenbo Hu, and Ying Shan. WorldPrism: 3D Consistency for Video World Models via Bidirectional Cross-Space Verification. **NeurIPS**, 2026.

Embodied AI & 3D Understanding

[4] Zhenyang Liu, Yongchong Gu, **Sixiao Zheng**, Yanwei Fu, Xiangyang Xue, and Yu-Gang Jiang. TriVLA: A Triple-System-Based Unified Vision-Language-Action Model with Episodic World Modeling for General Robot Control. **ACM MM**, 2026. (oral)

[5] Zhenyang Liu, **Sixiao Zheng**, Siyu Chen, Cairong Zhao, Longfei Liang, Xiangyang Xue, and Yanwei Fu. A Neural Representation Framework with LLM-Driven Spatial Reasoning for Open-Vocabulary 3D Visual Grounding. **ACM MM**, 2025.

[6] Zhenyang Liu, Yikai Wang, **Sixiao Zheng**, Tongying Pan, Longfei Liang, Xiangyang Xue, and Yanwei Fu. ReasonGrounder: LVLM-Guided Hierarchical Feature Splatting for Open-Vocabulary 3D Visual Grounding and Reasoning. **CVPR**, 2025.

AI for Storytelling & Filmmaking

[7] Shufeng Nan, Mengtian Li*, **Sixiao Zheng**, Yuwei Lu, Han Zhang, and Yanwei Fu*. Mind-of-Director: Multi-modal Agent-Driven Film Previsualization via Collaborative Decision-Making. arXiv preprint arXiv:2603.14790, 2026.

[8] **Sixiao Zheng**, and Yanwei Fu. ContextualStory: Consistent Visual Storytelling with Spatially-Enhanced and Storyline Context. **AAAI**, 2025.

[9] **Sixiao Zheng**, Jingyang Huo, Yu Wang, and Yanwei Fu. Intelligent Director: An Automatic Framework for Dynamic Visual Composition using ChatGPT. arXiv preprint arXiv:2402.15746, 2024.

Visual Perception

[10] **Sixiao Zheng**, Jiachen Lu, Hengshuang Zhao, Xiatian Zhu, Zekun Luo, Yabiao Wang, Yanwei Fu, Jianfeng Feng, Tao Xiang, Philip Torr, and Li Zhang. Rethinking Semantic Segmentation from a Sequence-to-Sequence Perspective with Transformers. **CVPR**, 2021. **(Citations: 5400+, Most influential CVPR'21 papers #2)**

[11] Li Zhang*, Jiachen Lu*, **Sixiao Zheng***, Xinxuan Zhao, Xiatian Zhu, Yanwei Fu, Tao Xiang, Jianfeng Feng, Philip HS Torr. Vision Transformers: From Semantic Segmentation to Dense Prediction. **IJCV**, 2024.

[12] **Sixiao Zheng**, Yanwei Fu, and Yanxi Hou. Incrementally Zero-Shot Detection by an Extreme Value Analyzer. **ICPR**, 2021. (***oral***)

[13] Zekun Luo, Zheng Fang, **Sixiao Zheng**, Yabiao Wang, and Yanwei Fu. NMS-Loss: Learning with Non-Maximum Suppression for Crowded Pedestrian Detection. **ICMR**, 2021.

[14] **Sixiao Zheng**, Ke Fan, Yanxi Hou, Jianfeng Feng, and Yanwei Fu. Clustering by the Probability Distributions from Extreme Value Theory. **IEEE TAI**, 2023.

Honors and Awards

- 2023 **World Artificial Intelligence Conference Youth Outstanding Paper Award (Top 10 Papers)**
- 2026 Zheng Ge Ru Scholarship, Fudan University
- 2024 Fudan University Outstanding Student
- 2022 Tencent Business Breakthrough Award
- 2022H1 Tencent TEG SEVP Award for Technical Breakthrough
- 2021 World Artificial Intelligence Conference | First Applied Algorithm Practice Exemplar BPAA Public Algorithm Track·Gold Award
- 2020-2021 Fudan University Outstanding Communist Youth League Member
- 2016 Mathematical Contest in Modeling (MCM) Second Prize
- 2017 Mathematical Contest in Modeling (MCM) Second Prize
- 5th Teddy Cup Data Mining Challenge Second Prize
- 8th Blue Bridge Cup National Software Competition Guangdong Java Second Prize
- 2015-2017 National Encouragement Scholarship for Three Consecutive Years
- 2018 Outstanding Graduate of the School of Physics and Telecommunication Engineering, South China Normal University

Work Experience

- **Tencent Hunyuan** *2021.7 - 2023.8*
  Algorithm Researcher Shenzhen
  ◦ Projects: Multimodal Large Models, Video Content Understanding, Text-Video Retrieval Models, Advertising Landing Page Color Scheme Generation

Research Experience

- **Tencent ARC Lab** *2025.5 – Present*
  Research Intern Shenzhen
  ◦ Research Interests: Video Generation
- **Huawei Noah's Ark Lab** *2024.6 – 2025.4*
  Research Intern Shanghai
  ◦ Research Interests: Video Generation
- **Tencent YouTu Lab** *2020.6 – 2021.1*
  Research Intern Shanghai
  ◦ Research Interests: Semantic Segmentation
- **South China Academy of Advanced Optoelectronics** *2017.7 – 2017.8*
  Research Assistant Guangzhou
  ◦ Advisor: Jiajia Chen
  ◦ Research Interests: Eye Movement Data Analysis Algorithms

Languages and Skills

- **English:** CET-6, proficient in reading English literature
- **Deep Learning programming:** Pytorch, Diffusers, PyTorch Lightning, Transformers, Accelerate
- **Tools:** LaTex, Linux, Bash, Git, OpenCV, numpy, scipy, pandas, sklearn, etc.

Academic Services

- **Teaching Assistant** *2024.2-2024.6*
  Fudan University, Neural Networks and Deep Learning
- **Reviewer** *2021-2026*
  CVPR, NeurIPS, AAAI, IEEE PAMI, ACM MM, IEEE TIP, IEEE TNNLS, ICMR, Neurocomputing

Open Source Projects

- https://github.com/fudan-zvg/SETR (1.1k stars)
- https://github.com/TencentARC/VerseCrafter (430 stars)
- https://github.com/sixiaozheng/ContextualStory