

ZEYU ZHANG

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<https://steve-zeyu-zhang.github.io/>

EDUCATION

The Australian National University

Canberra, Australia

Bachelor of Science (Advanced) (Honours)

2021.07 - 2025.06

- Advisor: Prof. Richard Hartley and Prof. Ian Reid
- Research interest: Geometric Generative Modeling
- First Class Honours (Dean List 2025, GPA 6.656/7)

PUBLICATIONS

1. **FlashMo: Geometric Interpolants and Frequency-Aware Sparsity for Scalable Efficient Motion Generation**
Zeyu Zhang*, Yiran Wang*, Danning Li*, Dong Gong, Ian Reid, Richard Hartley
NeurIPS 2025 <https://steve-zeyu-zhang.github.io/FlashMo/>
2. **FPSAttention: Training-Aware FP8 and Sparsity Co-Design for Fast Video Diffusion**
Akide Liu*, Zeyu Zhang*, Bohan Zhuang et al.
NeurIPS 2025 Spotlight <https://fps.ziplab.co/>
3. **Motion Mamba: Efficient and Long Sequence Motion Generation**
Zeyu Zhang*, Akide Liu*, Ian Reid, Richard Hartley, Bohan Zhuang, Hao Tang
ECCV 2024 <https://steve-zeyu-zhang.github.io/MotionMamba/>

RESEARCH PROJECTS

I also first-authored* or led† several impactful projects on video and 3D foundation models.

1. **BlockVid: Block Diffusion for High-Quality and Consistent Minute-Long Video Generation**
Zeyu Zhang, Jiasheng Tang, Fan Wang, Bohan Zhuang, et al.
<https://ziplab.co/BlockVid/>
2. **3D-R1: Enhancing Reasoning in 3D VLMs for Unified Scene Understanding**
Ting Huang*, Zeyu Zhang*†, Hao Tang
<https://aigeeksgroup.github.io/3D-R1/> (300+ stars for 1 months)
3. **Motion Anything: Any to Motion Generation**
Zeyu Zhang*, Yiran Wang*, Wei Mao, Danning Li, Akira Zhao, Biao Wu, Zirui Song, Bohan Zhuang, Ian Reid, Richard Hartley
<https://steve-zeyu-zhang.github.io/MotionAnything/>

RESEARCH EXPERIENCES

Alibaba DAMO Academy | Research Intern

2024.12 - 2025.11

- Video generation foundation model.

Peking University | Research Assistant

2024.07 - 2025.11

- Video and 3D foundation model, working with Asst. Prof Hao Tang.

Monash University | Research Assistant

2024.02 - 2024.05

- Efficient and Long Sequence Human Motion Generation, working with Asst. Prof. Bohan Zhuang.

Australian Institute for Machine Learning | Student Researcher

2022.11 - 2024.01

- Segmenting Thin CT Scans with Thick Annotations, working with Prof. Ian Reid, Dr. Yutong Xie, and Dr. Bowen Zhang.

TALKS

- **FPSAttention: Training-Aware FP8 and Sparsity Co-Design for Fast Video Diffusion**, Alibaba DAMO Academy 2025.11
- **How RL Enhances Spatial Understanding?**, NVIDIA Spatial Intelligence Lab 2025.10
- **Motion Mamba: Efficient and Long Sequence Motion Generation**, miHoYo 2024.07

REFEREES

Distinguished Professor Emeritus Richard Hartley FRS FAA FIEEE

ANU

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Professor Ian Reid FAA FTSE

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ACADEMIC SERVICES

Reviewers

Conference: CVPR 2025, ICLR 2025 2026, AAAI 2025, MM 2025, IJCAI 2025, CHI 2025, 3DV 2025, VR 2025