

Dawei Guan

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EDUCATION

University of Science and Technology of China (USTC)
M.S. student, School of Artificial Intelligence and Data Science
Supervised by Prof. Jiangtao Wang and Assoc. Prof. Di Yang

Hefei, China
Sep 2026 - Present

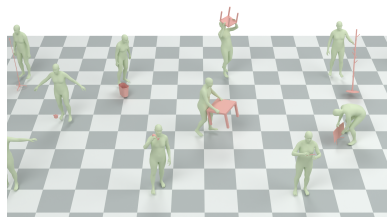
Beijing Jiaotong University (BJTU)
Bachelor's degree, School of Electronic and Information Engineering

Beijing, China
Sep 2022 - Jun 2026

RESEARCH INTERESTS

My research interests include motion generation and human-object interaction, with a current focus on egocentric vision, video generation, world models, and multimodal generative models.

SELECTED PUBLICATIONS



[View TRACE demo](#)

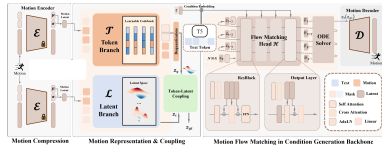
[1] Harnessing Coupled Stream Completion for Human-Object Interaction Modeling

arXiv, 2026

Dawei Guan, Di Yang, and Jiangtao Wang

[Paper](#) | [Project and demo](#)

TRACE represents body, object, and hand motion in separate latent streams while predicting updates from the complete interaction state. Geometry-aware losses constrain contact, relative pose, and timing after decoding. The framework supports completion of any missing stream and language-model-based interaction understanding.



[View project demo](#)

[2] FlowCoMotion: Text-to-Motion Generation via Token-Latent Flow Modeling

arXiv, 2026

Dawei Guan, Di Yang, Chengjie Jin, and Jiangtao Wang

[Paper](#) | [Project and demo](#)

FlowCoMotion combines discrete motion tokens with continuous latents to retain semantic structure and fine motion detail. Multi-view distillation regularizes the continuous space, while temporal quantization extracts semantic cues. A text-conditioned velocity field is integrated with an ODE solver to generate motion.

SKILLS

Programming	Python
Frameworks	PyTorch, torchvision, Diffusers, Gradio
Computer vision	OpenCV, LPIPS, Transformers