

YE TAO

Ph.D. Student, Department of Computer Science, City University of Hong Kong

Hong Kong SAR, China | ye.tao@my.cityu.edu.hk | davytao.me

Google Scholar | ORCID: 0009-0004-5923-0692 | GitHub

EDUCATION

City University of Hong Kong , Hong Kong SAR, China <i>Ph.D. Student in Computer Science, Department of Computer Science</i> <i>Advisors:</i> Prof. Dapeng Wu and Prof. Junhui Hou	2025-present
Beihang University , Beijing, China <i>M.E. in Computer Technology, School of Computer Science and Engineering</i> <i>Advisor:</i> Prof. Bin Zhou	2022-2025
Northwestern Polytechnical University , Xi'an, China <i>B.E. in Computer Science, School of Computer Science</i>	2018-2022

RESEARCH INTERESTS

3D/4D generative models; articulated motion and character animation; geometry-aware visual generation.

RESEARCH EXPERIENCE

SkelMo: Universal Skeletal Motion Generation for 3D Rigged Shapes - <i>First-author project, ECCV</i> Developed a diffusion-based, category-agnostic framework that maps 2D video motion to heterogeneous 3D skeletons; curated a dataset of approximately 20,000 rigged animations and introduced structural-semantic injection for anatomy-consistent motion generation.	2026
GSV3D: Single-Image 3D Object Generation - <i>First-author project, ICCV</i> Designed a Gaussian Splatting Decoder that distills Stable Video Diffusion latents into explicit 3D representations, enforcing multi-view geometric consistency while preserving the diversity of 2D diffusion priors.	2025
Articulated Motion-Aware NeRF - <i>Co-authored project, IEEE TVCG</i> Contributed to a self-supervised framework that learns a continuous implicit motion-state space with generative adversarial networks and motion-aware NeRFs to reconstruct articulated appearance, geometry, and motion attributes from unordered images.	2024

SELECTED PUBLICATIONS

- Ye Tao**, Yuxin Yao, Kendong Liu, Dapeng Wu, and Junhui Hou. "SkelMo: Universal Skeletal Motion Generation for 3D Rigged Shapes." *European Conference on Computer Vision (ECCV)*, 2026. Accepted. [project | paper]
- Ye Tao**, Jiawei Zhang, Yahao Shi, Dongqing Zou, and Bin Zhou. "GSV3D: Gaussian Splatting-based Geometric Distillation with Stable Video Diffusion for Single-Image 3D Object Generation." *IEEE/CVF International Conference on Computer Vision (ICCV)*, 2025. [paper | code | arXiv]
- Yahao Shi, **Ye Tao**, Mingjia Yang, Yun Liu, Li Yi, and Bin Zhou. "Articulated Motion-Aware NeRF for 3D Dynamic Appearance and Geometry Reconstruction by Implicit Motion States." *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 2024. [DOI]

TEACHING EXPERIENCE

Teaching Assistant, City University of Hong Kong CS5187 Vision and Image; CS4486 Artificial Intelligence.	2025-present
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ACADEMIC SERVICE

Conference Reviewer, Pacific Graphics (PG)

HONORS AND AWARDS

Second-Class Academic Scholarship , School of Computer Science and Engineering, Beihang University	2023-2024
School Outstanding Student Scholarship , Northwestern Polytechnical University	2019-2022