

# Hong Li (李宏)

Ph.D. Candidate, School of Automation Science and Electrical Engineering, Beihang University (BUAA)

Seeking full-time positions or postdoctoral opportunities starting in **2026/2027**.

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- Research Interests**
- Face animation & digital humans; 3D reconstruction & generation; neural rendering
  - Image generation; video generation; self-supervised learning

**Education** **Ph.D. Candidate, Control Science and Engineering, Beihang University (BUAA), Beijing, China** 2021 – Present

Advisor: Prof. Baochang Zhang.

**M.S. in Mechanical Engineering, Beihang University (BUAA), Beijing, China** 2018 – 2021

Advisor: Prof. Liang Wang. Research: mechanical design and embedded systems.

**Experience** **Meshy — Generative AI Researcher (Rising Intern)** Dec 2025 – Present

- 3D texture generation algorithms.

**BAAI — Algorithm Intern, Controllable World Model Center** Jan 2025 – Dec 2025

- 3D reconstruction and neural rendering.
- Mentor: Hao Zhao.

**Shengshu Technology — Algorithm Engineer, Research Department** Feb 2024 – Jan 2025

- 3D generation and video generation research.
- Mentors: Yikai Wang, Yiqi Jiang.

**Baidu — Algorithm Intern, Visual Technology Department** Jul 2023 – Jan 2024

- 3D face reconstruction.

**Momo (Zhiwen Technology) — Intern, Deep Learning Center** Dec 2021 – May 2023

- Face animation.
- Mentor: Tianxiang Zheng.

**Publications** \* Equal contribution.

### Conference

- **Hong Li**<sup>\*</sup>, Chongjie Ye<sup>\*</sup>, Houyuan Chen, Weiqing Xiao, Ziyang Yan, Lixing Xiao, Zhaoxi Chen, Jianfeng Xiang, Shaocong Xu, Xuhui Liu, Yikai Wang, Baochang Zhang, Xiaoguang Han, Jiaolong Yang, Hao Zhao, “[NeAR: Coupled Neural Asset-Renderer Stack](#)”. CVPR 2026. Project
- Yichen Yang<sup>\*</sup>, **Hong Li**<sup>\*</sup>, Haodong Zhu, Linin Yang, Guojun Lei, Sheng Xu, Baochang Zhang, “[PartDiffuser: Part-wise 3D Mesh Generation via Discrete Diffusion](#)”. CVPR 2026.
- **Hong Li**<sup>\*</sup>, Houyuan Chen<sup>\*</sup>, Chongjie Ye, Zhaoxi Chen, Bohan Li, Shaocong Xu, Xianda Guo, Xuhui Liu, Yikai Wang, Baochang Zhang, Satoshi Ikehata, Boxin Shi, Anyi Rao, Hao Zhao, “[Light of Normals: Unified Feature Representation for Universal Photometric Stereo](#)”. ICLR 2026. Code | Project
- Shaocong Xu, Songlin Wei, Qizhe Wei, Zheng Geng, **Hong Li**, Licheng Shen, Qianpu Sun, Shu Han, Bin Ma, Bohan Li, Chongjie Ye, Yuhang Zheng, Nan Wang, Saining Zhang, Hao Zhao, “[Diffusion Knows Transparency: Repurposing Video Diffusion for Transparent Object Depth and Normal Estimation](#)”. ICRA 2026. Code | Project
- Guojun Lei<sup>\*</sup>, Chi Wang<sup>\*</sup>, **Hong Li**<sup>\*</sup>, Yikai Wang, Rong Zhang, Weiwei Xu, “[AnimateAnything: Consistent and Controllable Animation for Video Generation](#)”. CVPR 2025. Code | Project
- Guojun Lei, Rong Zhang, Chi Wang, Tianhang Liu, **Hong Li**, Zhiyuan Ma, Weiwei Xu, “[UniTransfer: Video Concept Transfer via Progressive Spatial and Timestep Decomposition](#)”. NeurIPS 2025. Code | Project
- **Hong Li**<sup>\*</sup>, Yutang Feng<sup>\*</sup>, Song Xue, Xuhui Liu, Bohan Zeng, Shanglin Li, Boyu Liu, Jianzhuang Liu, Shumin Han, Baochang Zhang, “[UV-IDM: Identity-Conditioned Latent Diffusion Model for Face UV-Texture Generation](#)”. CVPR 2024. Code
- Bohan Zeng, Boyu Liu, **Hong Li**, Xuhui Liu, Jianzhuang Liu, Dapeng Chen, Wei Peng, Baochang Zhang, “[FNeVR: Neural Volume Rendering for Face Animation](#)”. NeurIPS 2022. Code

### Journal

- Xuhui Liu, **Hong Li**, Zhi Qiao, Yawen Huang, Xi Liu, Juan Zhang, Zhen Qian, Xiantong Zhen, Baochang Zhang, “[D3T: Dual-Domain Diffusion Transformer in Triplanar Latent Space for 3D Incomplete-View CT Reconstruction](#)”. IJCV 2025.
- Xiaoyue Duan<sup>\*</sup>, **Hong Li**<sup>\*</sup>, Panpan Wang, Tiancheng Wang, Boyu Liu, Baochang Zhang, “[Bandit Interpretability of Deep Models via Confidence Selection](#)”. Neurocomputing 2023.

### Preprints

- **Hong Li**, Boyu Liu, Xuhui Liu, Baochang Zhang, “[Motion Manipulation via Unsupervised Keypoint Positioning in Face Animation](#)”. arXiv 2026.
- **Hong Li**, Yutang Feng, Minqi Meng, Yichen Yang, Xuhui Liu, Baochang Zhang, “[Dual Diffusion Models for Multi-modal Guided 3D Avatar Generation](#)”. arXiv 2026.

**Academic Service**

- Reviewer: CVPR, NeurIPS, ICLR, ECCV, WACV, ICME.