

Hanyu Wang

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EDUCATION

University of Maryland – College Park

Ph.D. in Computer Science; Advisor: [Abhinav Shrivastava](#)

College Park, MD, US

Aug. 2020 – Present

University of Maryland – College Park

M.S. in Computer Science; GPA: 3.94/4.0

College Park, MD, US

Aug. 2018 – May 2020

Xi'an Jiaotong University

B.Eng. in Computer Science and Technology; GPA: 3.9/4.0

Xi'an, China

Sept. 2014 – May 2018

INTERESTS

Deep learning and computer vision, including but not limited to generative models, representation learning, vision + language/other modalities, implicit neural representations, etc.

INTERNSHIP EXPERIENCE

Research Scientist Intern, **Meta**

2023

- Mentors: Chenyang Zhang
- Exploring zero-shot text-to-video generation.
- Proposed utilizing pretrained image editing models to achieve smoother motions.

Research Intern, **Snap Inc.**

2021 - 2022

- Mentors: Pengxiang Wu, Chen Wang, Kevin Dela Rosa
- Proposed the problem of multimodality-guided image style transfer.
- Addressed the challenge using a novel cross-modal GAN inversion approach I proposed.
- Explored multimodal multitask learning.

Research Intern, **Institute of Automation, CAS**

2017 - 2018

- Mentors: Jianwei Guo, Dong-Ming Yan, Xiaopeng Zhang
- Proposed learning-based 3D keypoint descriptor.
- Validate the effectiveness of the proposed descriptor on the non-rigid shape matching task.

PUBLICATIONS

Hanyu Wang, Chenyang Zhang, Tian Xie, Haoyue Tang, Yang Bai, Abhinav Shrivastava
Zero-shot Text-to-video Generation with Motion-based Latent Optimization and Motion Generation.
Under Review

Hanyu Wang, Pengxiang Wu, Kevin S Dela Rosa, Chen Wang, Abhinav Shrivastava
Multimodality-guided Image Style Transfer using Cross-modal GAN Inversion.
WACV 2024

Nirat Saini*, **Hanyu Wang***, Archana Swaminathan, Vinoj Jayasundara, Bo He, Kamal Gupta, Abhinav Shrivastava
Chop & Learn: Recognizing and Generating Object-State Compositions.
ICCV 2023

Bo He, Xitong Yang, **Hanyu Wang**, Zuxuan Wu, Hao Chen, Shuaiyi Huang, Yixuan Ren, Ser-Nam Lim, Abhinav Shrivastava

Towards Scalable Neural Representation for Diverse Videos.

CVPR 2023

Shishira R Maiya*, Sharath Girish*, Max Ehrlich, **Hanyu Wang**, Kwot Sin Lee, Patrick Poirson, Pengxiang Wu, Chen Wang, Abhinav Shrivastava

NIRVANA: Neural Implicit Representations of Videos with Adaptive Networks and Autoregressive Patch-wise Modeling.

CVPR 2023

Hanyu Wang, Kamal Gupta, Larry Davis, Abhinav Shrivastava

Neural Space-filling Curves.

ECCV 2022

Hao Chen, Bo He, **Hanyu Wang**, Yixuan Ren, Ser Nam Lim, Abhinav Shrivastava

NeRV: Neural Representations for Videos.

NeurIPS 2021

Jianwei Guo, **Hanyu Wang**, Zhanglin Cheng, Xiaopeng Zhang, Dong-Ming Yan

Learning Local Shape Descriptors for Computing Non-rigid Dense Correspondence.

Computational Visual Media 2020.

Hanyu Wang*, Jianwei Guo*, Dong-Ming Yan, Weize Quan, Xiaopeng Zhang

Learning 3D Keypoint Descriptors for Non-Rigid Shape Matching.

ECCV 2018.

ACADEMIC SERVICES

CVPR 2024, WAVC 2024, ICCV 2023, CVPR 2023, CVPR 2022, ECCV 2022 reviewer.

TECHNICAL SKILLS

Languages: Python, C/C++, MATLAB, Java, C#, etc.

Frameworks & Libraries: Pytorch, Tensorflow, Numpy, Jupyter, etc.