

Xinya Ji

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ABOUT ME

I am a Ph.D. student supervised by [Prof. Xun Cao](#) at [Nanjing University](#). I am currently a visiting Ph.D. student at the [CGL Lab](#), ETH Zurich, supervised by [Prof. Barbara Solenthaler](#) and [Dr. Derek Bradley](#). I have also worked closely with [Prof. Feng Xu](#) at Tsinghua University. I received my Bachelor of Science degree in Electronic Science and Engineering from Nanjing University in 2019.

My research interests focus on computer graphics, particularly 3D facial reconstruction, animation, and audio-visual learning.

EDUCATION

Nanjing University , Nanjing, China	<i>09 / 2019 - Present</i>
Ph.D Candidate, Electronic Science and Engineering, Advisor: Prof. Xun Cao	
Nanjing University , Nanjing, China	<i>09 / 2015 - 06 / 2019</i>
Bachelor of Science, Electronic Science and Engineering	

PUBLICATIONS

- FastGHA: Generalized Few-Shot 3D Gaussian Head Avatars with Real-Time Animation.
Under review.
- Joint Learning of Depth and Appearance for Portrait Image Animation.
Xinya Ji, Gaspard Zoss, Prashanth Chandran, Lingchen Yang, Xun Cao, Barbara Solenthaler, Derek Bradley.
ICCV Workshop, 2025.
- VividTalk: One-Shot Audio-Driven Talking Head Generation Based on 3D Hybrid Prior.
Xusen Sun, Longhao Zhang, Hao Zhu, Peng Zhang, Bang Zhang, **Xinya Ji**, Kangneng Zhou, Daiheng Gao, Liefeng Bo, Xun Cao.
3DV, 2025.
- Emotalk3d: High-fidelity Free-view Synthesis of Emotional 3d Talking Head.
Qianyun He, **Xinya Ji**, Yicheng Gong, Yuanxun Lu, Zhengyu Diao, Linjia Huang, Yao Yao, Siyu Zhu, Zhan Ma, Songcen Xu, Xiaofei Wu, Zixiao Zhang, Xun Cao, Hao Zhu.
ECCV, 2024.
- Learning Hierarchical Adaptive Code Clouds for Neural 3D Shape Representation.
Yuanxun Lu, **Xinya Ji**, Hao Zhu, Xun Cao.
Machine Intelligence Research, 2024.
- Avatarbooth: High-quality and Customizable 3d Human Avatar Generation.
Yifei Zeng, Yuanxun Lu, **Xinya Ji**, Yao Yao, Hao Zhu, Xun Cao.
arXiv:2306.09864.
- EAMM: One-shot Emotional Talking Face via Audio-based Emotion-aware Motion Model.
Xinya Ji, Hang Zhou, Kaisiyuan Wang, Wayne Wu, Feng Xu, Xun Cao.
SIGGRAPH 2022 Conference Proceedings, 2022.

- Audio-driven Emotional Video Portraits.

Xinya Ji, Hang Zhou, Kaisiyuan Wang, Wayne Wu, Chen Change Loy, Xun Cao, Feng Xu.
CVPR 2021.

RESEARCH EXPERIENCES

DisneyResearch Studios , Zurich, Switzerland	<i>01/2024 - Present</i>
Visiting Ph.D, Computer Science (Computer Graphics), Advisor: Prof. Barbara Solenthaler and Dr. Derek Bradley	
Sensetime Research , Shanghai, China	<i>07/2021 - 10/2021</i>
Research Intern, Advisor: Dr. Hang Zhou and Dr. Wayne Wu	
Tsinghua University , Beijing, China	<i>09/2019 - 01/2022</i>
Visiting Ph.D, School of Software, Advisor: Prof. Feng Xu	

AWARDS

National Scholarship, Nanjing University	2021
First Prize of Academic Scholarship, Nanjing University	2019, 2020
Jin Xiao Scholarship, Nanjing University	2018
Physics 79 Scholarship, Nanjing University	2017
Liao Shi Scholarship, Nanjing University	2016

TECHNICAL SKILLS

Programming Languages & Platforms	Python, C/C++, MATLAB, PyTorch, Linux
Software & OS	L <small>A</small> T <small>E</small> X, Adobe Premiere, Maya, MS Office