

# Xinya Ji

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## ABOUT ME

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I am a Ph.D. student supervised by [Prof. Xun Cao](#) at [Nanjing University](#). I was a visiting Ph.D. student at the [CGL Lab](#), ETH Zurich, supervised by [Prof. Barbara Solenthaler](#) and [Dr. Derek Bradley](#) for two years. 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

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

## PUBLICATIONS

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- FastGHA: Generalized Few-Shot 3D Gaussian Head Avatars with Real-Time Animation.  
**Xinya Ji**, Sebastian Weiss, Manuel Kansy, Jacek Naruniec, Xun Cao, Barbara Solenthaler, Derek Bradley.  
*ICLR, 2026.*
- 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

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<b>DisneyResearch   Studios</b> , Zurich, Switzerland	<i>01/2024 - 01/2026</i>
Visiting Ph.D, Computer Science (Computer Graphics), Advisor: <b>Prof. Barbara Solenthaler</b> and <b>Dr. Derek Bradley</b>	
<b>Sensetime Research</b> , Shanghai, China	<i>07/2021 - 10/2021</i>
Research Intern, Advisor: <b>Dr. Hang Zhou</b> and <b>Dr. Wayne Wu</b>	
<b>Tsinghua University</b> , Beijing, China	<i>09/2019 - 01/2022</i>
Visiting Ph.D, School of Software, Advisor: <b>Prof. Feng Xu</b>	

## AWARDS

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

## TECHNICAL SKILLS

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