

# Qianqian Wang | Curriculum Vitae

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## Education

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### Cornell Tech, Cornell University

Ph.D. candidate in Computer Science

Advisors: Prof. Noah Snavely, Prof. Bharath Hariharan

New York, NY

2018 – Present

### Zhejiang University

Bachelor of Information Engineering, GPA: 3.94/4.00

Advisor: Prof. Xiaowei Zhou

Hangzhou, China

2014 – 2018

## Research Interests

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- 3D Computer Vision, Computer Graphics, Machine Learning

## Publications

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- Zhengqi Li, **Qianqian Wang**, Forrester Cole, Richard Tucker, Noah Snavely. *DynIBaR: Neural Dynamic Image-Based Rendering*, CVPR 2023. (**Best Paper Award Candidate**)
- Haotong Li, **Qianqian Wang**, Ruojin Cai, Sida Peng, Hadar Averbuch-Elor, Xiaowei Zhou, Noah Snavely, *Neural Scene Chronology*, CVPR 2023.
- Zhengqi Li, **Qianqian Wang**, Noah Snavely, Angjoo Kanazawa, *InfiniteNature-Zero: Learning Perpetual View Generation of Natural Scenes from Single Images*, ECCV 2022. (**Oral**)
- Jiaming Sun, Xi Chen, **Qianqian Wang**, Zhengqi Li, Hadar Averbuch-Elor, Xiaowei Zhou, Noah Snavely, *Neural 3D Reconstruction in the Wild*, SIGGRAPH 2022 (conference track).
- **Qianqian Wang**, Zhengqi Li, David Salesin, Noah Snavely, Brian Curless, Janne Kontkanen, *3D Moments from Near Duplicate Photos*, CVPR 2022.
- Haoyu Guo, Sida Peng, Haotong Lin, **Qianqian Wang**, Guofeng Zhang, Hujun Bao, Xiaowei Zhou, *Neural 3D Scene Reconstruction with the Manhattan-world Assumption*, CVPR 2022. (**Oral**)
- Yuan Liu, Sida Peng, Lingjie Liu, **Qianqian Wang**, Peng Wang, Christian Theobalt, Xiaowei Zhou, Wenping Wang, *Neural Rays for Occlusion-aware Image-based Rendering*. CVPR 2022.
- Sida Peng\*, Junting Dong\*, **Qianqian Wang**, Shangzhan Zhang, Qing Shuai, Hujun Bao, Xiaowei Zhou, *Animatable Neural Radiance Fields for Human Body Modeling*, ICCV 2021. (\* Equal contribution)
- **Qianqian Wang**, Zhicheng Wang, Kyle Genova, Pratul Srinivasan, Howard Zhou, Jon Barron, Ricardo Martin-Brualla, Noah Snavely, Thomas Funkhouser, *IBRNet: Learning Multi-View Image-Based Rendering*, CVPR 2021.
- Kai Zhang\*, Fujun Luan\*, **Qianqian Wang**, Kavita Bala, Noah Snavely, *Inverse Rendering with Spherical Gaussians for Physics-based Material Editing and Relighting*, CVPR 2021. (\* Equal contribution)
- Sida Peng, Yuanqing Zhang, Yinghao Xu, **Qianqian Wang**, Qing Shuai, Hujun Bao, Xiaowei Zhou, *Neural body: Implicit neural representations with structured latent codes for novel view synthesis of dynamic humans*, CVPR 2021 (**Best Paper Candidate**).

- **Qianqian Wang**, Xiaowei Zhou, Bharath Hariharan, Noah Snavely, *Learning Feature Descriptors using Camera Pose Supervision*, ECCV 2020 (**Oral**).
- Jin Sun, Hadar Averbuch-Elor, **Qianqian Wang**, Noah Snavely, *Hidden Footprints: Learning Contextual Walkability from 3D Human Trails*, ECCV 2020.
- **Qianqian Wang**, Xiaowei Zhou, Kostas Daniilidis, *Multi-Image Semantic Matching by Mining Consistent Features*, CVPR 2018.

## Research Experience

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Dense and Long-Range Motion Estimation.....	
<b>Student Researcher, Google Research</b>	<b>New York, NY (remote)</b>
<i>Host: Aleksander Holynski</i>	<i>08/2022 – 06/2023</i>
3D Cinematic Moments.....	
<b>Research Intern, Google Research</b>	<b>New York, NY (remote)</b>
<i>Host: Brian Curless, Janne Kontkanen</i>	<i>05/2021 – 12/2021</i>
Learning Multi-View Image-Based Rendering.....	
<b>Research Intern, Google Research</b>	<b>New York, NY (remote)</b>
<i>Host: Thomas Funkhouser, Zhicheng Wang</i>	<i>05/2020 – 11/2020</i>
Multi-Image Matching.....	
<b>Research Intern, University of Pennsylvania</b>	<b>Philadelphia, PA</b>
<i>Advisor: Prof. Kostas Daniilidis</i>	<i>07/2017 – 10/2017</i>

## Awards

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○ Chinese Young Female Scholars in AI	03/2023
○ EECS Rising Stars	10/2022
○ Google PhD Fellowship	01/2022
○ Meta PhD Fellowship Finalist	01/2022
○ NVIDIA Academic Hardware Grant	08/2021
○ TA Outstanding Award, Cornell University	05/2019
○ First-Class Scholarship for Outstanding Students, China	10/2017
○ Zhejiang Daily & Alibaba New Media Scholarship, China	10/2017
○ The Samsung Scholarship	11/2016
○ National Scholarship, Ministry of Education of China	11/2015

## Invited Talks

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GAMES Webinar	01/2022
Visual Informatics Group @ University of Texas at Austin	01/2022

## Services

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- Technical Paper Reviewer

- Neural Information Processing Systems (NeurIPS) 2022
- ACM SIGGRAPH 2022
- Computer Vision and Pattern Recognition (CVPR) 2021 - 2023
- International Conference on Learning Representations (ICLR) 2021
- International Conference on Computer Vision (ICCV) 2021
- o **Teaching Assistant**
  - CS 5670: Introduction to Computer Vision, Cornell Tech Spring 2019 - 2022
  - CS 5781: Machine Learning Engineering, Cornell Tech Fall 2021
  - CS 5787: Deep Learning, Cornell Tech Spring 2020
  - CS 4700: Artificial Intelligence, Cornell University Fall 2018

## **Skills**

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- o Python, PyTorch, TensorFlow, C/C++, MATLAB, Java