# Qianqian Wang | Curriculum Vitae

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## Education

**Cornell Tech, Cornell University**                                                     New York, NY
*Ph.D. candidate in Computer Science*                                                  *2018 – Present*
Advisors: Prof. Noah Snavely, Prof. Bharath Hariharan

**Zhejiang University**                                                              Hangzhou, China
*Bachelor of Information Engineering, GPA: 3.94/4.00*                                      *2014 – 2018*
Advisor: Prof. Xiaowei Zhou

## Research Interests

o 3D Computer Vision, Computer Graphics

## Publications

o Zhengqi Li, **Qianqian Wang**, Forrester Cole, Richard Tucker, Noah Snavely. *DynIBaR: Neural Dynamic Image-Based Rendering*, CVPR 2023. (**Best Paper Honorable Mention**)

o Haotong Li, **Qianqian Wang**, Ruojin Cai, Sida Peng, Hadar Averbuch-Elor, Xiaowei Zhou, Noah Snavely, *Neural Scene Chronology*, CVPR 2023.

o Zhengqi Li, **Qianqian Wang**, Noah Snavely, Angjoo Kanazawa, *InfiniteNature-Zero: Learning Perpetual View Generation of Natural Scenes from Single Images*, ECCV 2022. (**Oral**)

o 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).

o **Qianqian Wang**, Zhengqi Li, David Salesin, Noah Snavely, Brian Curless, Janne Kontkanen, *3D Moments from Near Duplicate Photos*, CVPR 2022.

o 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**)

o 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.

o 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)

o **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.

o 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)

o 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**).

o **Qianqian Wang**, Xiaowei Zhou, Bharath Hariharan, Noah Snavely, *Learning Feature Descriptors using Camera Pose Supervision*, ECCV 2020 (**Oral**).

o Jin Sun, Hadar Averbuch-Elor, **Qianqian Wang**, Noah Snavely, *Hidden Footprints: Learning Contextual Walkability from 3D Human Trails*, ECCV 2020.

o **Qianqian Wang**, Xiaowei Zhou, Kostas Daniilidis, *Multi-Image Semantic Matching by Mining Consistent Features*, CVPR 2018.

## Research Experience

Dense and Long-Range Motion Estimation............................................................

**Student Researcher, Google Research**                    New York, NY (**remote**)
*Host: Aleksander Holynski*                                *08/2022 – 06/2023*

3D Cinematic Moments.................................................................................

**Research Intern, Google Research**                       New York, NY (**remote**)
*Host: Brian Curless, Janne Kontkanen*                     *05/2021 – 12/2021*

Learning Multi-View Image-Based Rendering.........................................................

**Research Intern, Google Research**                       New York, NY (**remote**)
*Host: Thomas Funkhouser, Zhicheng Wang*                   *05/2020 – 11/2020*

## Awards

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

o **Technical Paper Reviewer**

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|---|---|
| - 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

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