Qianqian Wang | Curriculum Vitae

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Education

Cornell Tech, Cornell University   New York, NY
Ph.D. in Computer Science   2018 – 2023
Advisors: Prof. Noah Snavely, Prof. Bharath Hariharan

Zhejiang University   Hangzhou, China
Bachelor of Information Engineering   2014 – 2018
Advisor: Prof. Xiaowei Zhou

Academic Position

University of California, Berkeley   Berkeley, CA
Postdoctoral Researcher   2023 – Present
Advisors: Prof. Angjoo Kanazawa, Prof. Alyosha Efros

Research Interests

- 3D Computer Vision, Computer Graphics

Publications

- **Qianqian Wang**, Yen-Yu Chang, Ruojin Cai, Zhengqi Li, Bharath Hariharan, Aleksander Holynski, Noah Snavely. *Tracking Everything Everywhere All at Once*, ICCV 2023. (**Oral**)
- Ruojin Cai, Joseph Tung, **Qianqian Wang**, Hadar Averbuch-Elor, Bharath Hariharan, Noah Snavely. *Doppelgangers: Learning to Disambiguate Images of Similar Structures*, ICCV 2023. (**Oral**)
- Zhengqi Li, **Qianqian Wang**, Forrester Cole, Richard Tucker, Noah Snavely. *DynIBaR: Neural Dynamic Image-Based Rendering*, CVPR 2023. (**Best Paper Honorable Mention**)
- 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

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*

Multi-Image Matching...

Research Intern, University of Pennsylvania | **Philadelphia, PA**
Advisor: Prof. Kostas Daniilidis | *07/2017 – 10/2017*

Awards

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

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

Services

- **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, 2023
- **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

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