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

- Yuxi Xiao*, **Qianqian Wang***, Shangzhan Zhang, Nan Xue, Sida Peng, Yujun Shen, Xiaowei Zhou. *SpatialTracker: Tracking Any 2D Pixels in 3D Space*, CVPR 2024. (**Spotlight**)
- Luming Tang*, Menglin Jia*, **Qianqian Wang***, Cheng Perng Phoo, Bharath Hariharan. *Emergent Correspondence from Image Diffusion*, NeurIPS 2023.
- **Qianqian Wang**, Yen-Yu Chang, Ruojin Cai, Zhengqi Li, Bharath Hariharan, Aleksander Holynski, Noah Snavely. *Tracking Everything Everywhere All at Once*, ICCV 2023. (**Oral, Best Student Paper**)
- 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

- **Cornell CS Dissertation Award** 05/2024
- **ICCV Best Student Paper Award** 10/2023
- **CVPR Best Paper Honorable Mention** 06/2023
- **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

Stanford Vision and Learning Lab (SVL) 01/2024
CAIR, Chinese Academy of Sciences 12/2023
NVIDIA Toronto AI Lab 10/2023
Berkeley AI Lab (BAIR) 02/2023
Scene Representation Group, MIT 12/2022
GAMES Webinar 01/2022
Visual Informatics Group @ University of Texas at Austin 01/2022

Services

- **Technical Paper Reviewer**
  - European Conference on Computer Vision (ECCV) 2024
  - Computer Vision and Pattern Recognition (CVPR) 2021 - 2024
  - International Conference on Computer Vision (ICCV) 2021, 2023
  - Neural Information Processing Systems (NeurIPS) 2022
  - ACM SIGGRAPH 2022
  - International Conference on Learning Representations (ICLR) 2021
- **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