

# Qianqian Wang

University of California, Berkeley  
2121 Berkeley Way, Berkeley, CA 94704  
qianqianwang@berkeley.edu  
qianqianwang68.github.io

## Education

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**Cornell University, Cornell Tech** 2018 – 2023

Ph.D. in Computer Science

Thesis: Modeling the 3D World and its Motion

Advisors: Noah Snaveley, Bharath Hariharan

**Zhejiang University** 2014 – 2018

B.E. in Information Engineering

Advisor: Xiaowei Zhou

## Academic Position

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**University of California, Berkeley** 2023 – Present

Postdoctoral Scholar

Advisors: Angjoo Kanazawa, Alexei A. Efros

## Honors and Awards

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CVPR Best Paper Honorable Mention 2025

Cornell CIS Dissertation Award 2024

ICCV Best Student Paper Award 2023

CVPR Best Paper Honorable Mention Award 2023

EECS Rising Stars 2022

NVIDIA Academic Hardware Grant 2022

Google PhD Fellowship 2022

Meta PhD Fellowship Finalist 2022

Cornell TA Outstanding Award 2019

Samsung Scholarship 2016

National Scholarship 2015

## Publications

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(\* Equal Contribution; † Equal Advising)

- [1] Qianqian Wang\*, Vickie Ye\*, Hang Gao\*, Weijia Zeng\*, Jake Austin, Zhengqi Li, Angjoo Kanazawa, “Shape of Motion: 4D Reconstruction from a Single Video”, *International Conference on Computer Vision (ICCV)*, 2025.
- [2] Haiwen Feng\*, Junyi Zhang\*, Qianqian Wang, Yufei Ye, Pengcheng Yu, Michael J. Black, Trevor Darrell, Angjoo Kanazawa, “St4RTrack: Simultaneous 4D Reconstruction and Tracking in the World”, *International Conference on Computer Vision (ICCV)*, 2025.
- [3] Qianqian Wang\*, Yifei Zhang\*, Aleksander Holynski, Alexei A. Efros, Angjoo Kanazawa, “Continuous 3D Perception Model with Persistent State”, *Computer Vision and Pattern Recognition (CVPR)*, 2025. (Oral)

- [4] Nan Huang, Wenzhao Zheng, Chenfeng Xu, Kurt Keutzer, Shanghang Zhang, Angjoo Kanazawa, Qianqian Wang, “Segment Any Motion in Videos”, *Computer Vision and Pattern Recognition (CVPR)*, 2025.
- [5] Zhengqi Li, Richard Tucker, Forrester Cole, Qianqian Wang, Linyi Jin, Vickie Ye, Angjoo Kanazawa, Aleksander Holynski, Noah Snavely, “MegaSaM: Accurate, Fast, and Robust Structure and Motion from Casual Dynamic Videos”, *Computer Vision and Pattern Recognition (CVPR)*, 2025. (**Best Paper Honorable Mention**)
- [6] Qiyang Qian, Hansheng Chen, Masayoshi Tomizuka, Kurt Keutzer, Qianqian Wang<sup>†</sup>, Chenfeng Xu<sup>†</sup>, “Bridging Viewpoint Gaps: Geometric Reasoning Boosts Semantic Correspondence”, *Computer Vision and Pattern Recognition (CVPR)*, 2025.
- [7] Justin Kerr, Chung Min Kim, Mingxuan Wu, Brent Yi, Qianqian Wang, Ken Goldberg, Angjoo Kanazawa, “Robot See Robot Do: Imitating Articulated Object Manipulation with Monocular 4D Reconstruction”, *Conference on Robot Learning (CoRL)*, 2024. (**Oral**)
- [8] Yuxi Xiao\*, Qianqian Wang\*, Shangzhan Zhang, Nan Xue, Sida Peng, Yujun Shen, Xiaowei Zhou, “SpatialTracker: Tracking Any 2D Pixels in 3D Space”, *Computer Vision and Pattern Recognition (CVPR)*, 2024. (**Spotlight**)
- [9] Qianqian Wang, Yen-Yu Chang, Ruojin Cai, Zhengqi Li, Bharath Hariharan, Aleksander Holynski, Noah Snavely, “Tracking Everything Everywhere All at Once”, *International Conference on Computer Vision (ICCV)*, 2023. (**Best Student Paper**)
- [10] Zhengqi Li, Qianqian Wang, Forrester Cole, Richard Tucker, Noah Snavely, “DynIBaR: Neural Dynamic Image-Based Rendering”, *Computer Vision and Pattern Recognition (CVPR)*, 2023. (**Best Paper Honorable Mention**)
- [11] Luming Tang\*, Menglin Jia\*, Qianqian Wang\*, Cheng Perng Phoo, Bharath Hariharan, “Emergent Correspondence from Image Diffusion”, *Neural Information Processing Systems (NeurIPS)*, 2023.
- [12] Ruojin Cai, Joseph Tung, Qianqian Wang, Hadar Averbuch-Elor, Bharath Hariharan, Noah Snavely, “Doppelgangers: Learning to Disambiguate Images of Similar Structures”, *International Conference on Computer Vision (ICCV)*, 2023. (**Oral**)
- [13] Haotong Lin, Qianqian Wang, Ruojin Cai, Sida Peng, Hadar Averbuch-Elor, Xiaowei Zhou, Noah Snavely, “Neural Scene Chronology”, *Computer Vision and Pattern Recognition (CVPR)*, 2023.
- [14] Zhengqi Li, Qianqian Wang, Noah Snavely, Angjoo Kanazawa, “InfiniteNature-Zero: Learning Perpetual View Generation of Natural Scenes from Single Images”, *European Conference on Computer Vision (ECCV)*, 2022. (**Oral**)
- [15] Jiaming Sun, Xi Chen, Qianqian Wang, Zhengqi Li, Hadar Averbuch-Elor, Xiaowei Zhou, Noah Snavely, “Neural 3D Reconstruction in the Wild”, *SIGGRAPH*, 2022.
- [16] Qianqian Wang, Zhengqi Li, David Salesin, Noah Snavely, Brian Curless, Janne Kontkanen, “3D Moments from Near Duplicate Photos”, *Computer Vision and Pattern Recognition (CVPR)*, 2022.
- [17] Haoyu Guo, Sida Peng, Haotong Lin, Qianqian Wang, Guofeng Zhang, Hujun Bao, Xiaowei Zhou, “Neural 3D Scene Reconstruction with the Manhattan-world Assumption”, *Computer Vision and Pattern Recognition (CVPR)*, 2022. (**Oral**)
- [18] Yuan Liu, Sida Peng, Lingjie Liu, Qianqian Wang, Peng Wang, Christian Theobalt, Xiaowei Zhou, Wenping Wang, “Neural Rays for Occlusion-aware Image-based Rendering”, *Computer Vision and Pattern Recognition (CVPR)*, 2022.
- [19] 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”, *Computer Vision and Pattern Recognition (CVPR)*, 2021.
- [20] Sida Peng\*, Junting Dong\*, Qianqian Wang, Shangzhan Zhang, Qing Shuai, Hujun Bao, Xiaowei Zhou, “Animatable Neural Radiance Fields for Human Body Modeling”, *International Conference on Computer Vision (ICCV)*, 2021.

- [21] Kai Zhang\*, Fujun Luan\*, Qianqian Wang, Kavita Bala, Noah Snavely, “Inverse Rendering with Spherical Gaussians for Physics-based Material Editing and Relighting”, *Computer Vision and Pattern Recognition (CVPR)*, 2021.
- [22] 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”, *Computer Vision and Pattern Recognition (CVPR)*, 2021. **(Best Paper Finalist)**
- [23] Qianqian Wang, Xiaowei Zhou, Bharath Hariharan, Noah Snavely, “Learning Feature Descriptors using Camera Pose Supervision”, *European Conference on Computer Vision (ECCV)*, 2020. **(Oral)**
- [24] Jin Sun, Hadar Averbuch-Elor, Qianqian Wang, Noah Snavely, “Hidden Footprints: Learning Contextual Walkability from 3D Human Trails”, *European Conference on Computer Vision (ECCV)*, 2020.
- [25] Qianqian Wang, Xiaowei Zhou, Kostas Daniilidis, “Multi-Image Semantic Matching by Mining Consistent Features”, *Computer Vision and Pattern Recognition (CVPR)*, 2018.

## Invited Talks

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### Learning to Perceive the 4D World Online

CVPR’25 ScanNet++ Workshop 2025

### 4D Digital Twins from Videos in the Wild

CVPR’25 3D Digital Twin Workshop 2025

### Continuous 3D Perception Model with Persistent State

CVPR’25 2nd Point Cloud Tutorial 2025

NeuroAILab, Stanford University 2025

AI Seminar, Scaled Foundations 2025

### Perceiving and Understanding the Dynamic 3D World

UIUC Vision Seminar 2024

### Recovering the Structure of the Dynamic 3D World

Michigan AI Symposium 2024

### Recovering the 4D World Behind Any Video

Stanford Vision and Learning Lab (SVL), Stanford University 2024

### Toward Dense and Long-Range Motion Estimation in Videos

Stanford Vision and Learning Lab (SVL), Stanford University 2024

NVIDIA Toronto AI Lab 2023

### Modeling the 3D World and its Motion

Berkeley Artificial Intelligence Research (BAIR) Lab, UC Berkeley 2024

Scene Representation Group, MIT CSAIL 2023

CAIR, Chinese Academy of Sciences 2023

### Generalizable Neural Rendering for Novel View Synthesis

Visual Informatics Group, University of Texas at Austin 2022

GAMES Webinar 2022

## Services and Professional Activities

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**Conference Reviewer:** CVPR, ICCV, ECCV, NeurIPS, ICRA 2019 – Present

**Journal Reviewer:** SIGGRAPH, SIGGRAPH Asia, IJCV 2019 – Present

**Volunteer:** CVPR Travel Grants Reviewer 2022

**Area Chair:** WACV 2024

## Teaching

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**Guest Lecturer**, UC Berkeley

CS180: Intro to Computer Vision and Computational Photography 2024

**Teaching Assistant**, Cornell University, Cornell Tech

CS 5670: Introduction to Computer Vision 2019 – 2023

**Teaching Assistant**, Cornell University, Cornell Tech

CS 5781: Machine Learning Engineering 2021

**Teaching Assistant**, Cornell University, Cornell Tech

CS 5787: Deep Learning 2020

**Teaching Assistant**, Cornell University

CS 4700: Artificial Intelligence 2018

## Research and Industry Experience

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**Google DeepMind**, Research Consultant 2024 – 2025

**Google Research**

Visiting Researcher 2023 – 2024

Student Researcher, Advisor: Aleksander Holynski 2023

Research Intern, Advisors: Brian Curless, Janne Kontkanen 2022

Research Intern, Advisors: Thomas Funkhouser, Zhicheng Wang 2021

**University of Pennsylvania**, Research Intern, Advisor: Kostas Daniilidis 2017

## Skills

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