# Jason Y. Zhang

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## EDUCATION

**Carnegie Mellon University** August 2019 – May 2024
Robotics Institute, Ph.D. GPA: 4.05
Advisers: Deva Ramanan, Shubham Tulsiani

**University of California, Berkeley** August 2015 – December 2018
Computer Science, B.A. *w/ Highest Distinction* GPA: 3.99
Advised by: Jitendra Malik, Angjoo Kanazawa, Anca Dragan

## EXPERIENCE

**Google** June 2024 – Present
*Research Scientist* *San Francisco, CA*

**Facebook AI Research** May 2022 – November 2022
*Research Intern* *London, UK*
Advised by Andrea Vedaldi

**Facebook AI Research** August 2019 – May 2020
*Research Intern* *Pittsburgh, PA*
Advised by Jitendra Malik

**UC Berkeley Statistics Department** June 2016 – January 2019
*Course Developer for Stat 140* *Berkeley, CA*

**LinkedIn** May 2017 – August 2017
*Software Engineer Intern* *Sunnyvale, CA*

## PUBLICATIONS (REVERSE CHRONOLOGICAL ORDER)

[1] **Jason Y. Zhang***, Amy Lin*, Moneish Kumar, Tzu-Hsuan Yang, Deva Ramanan, Shubham Tulsiani. Cameras as Rays: Sparse-view Pose Estimation via Ray Diffusion. In *International Conference on Learning Representations (ICLR) 2024*. arXiv:2402:14817

[2] Amy Lin*, **Jason Y. Zhang***, Deva Ramanan, and Shubham Tulsiani (* equal contribution). RelPose++: Recovering 6D Poses from Sparse-view Observations. In *International Conference on 3D Vision (3DV) 2024*. arXiv:2305:04926

[3] Samarth Sinha, **Jason Y. Zhang**, Andrea Tagliasacchi, Igor Gilitschenski, and David B. Lindell. SparsePose: Sparse-View Camera Pose Regression and Refinement. In *Conference on Computer Vision and Pattern Recognition (CVPR) 2023*. arXiv:2211:16991.

[4] Haithem Turki, **Jason Y. Zhang**, Francesco Ferroni, and Deva Ramanan. SUDS: Scalable Urban Dynamic Scenes. In *Conference on Computer Vision and Pattern Recognition (CVPR) 2023*. arXiv:2303:14536

[5] **Jason Y. Zhang**, Deva Ramanan, and Shubham Tulsiani. RelPose: Probabilistic Relative Orientation Estimation for Objects in the Wild. In *European Conference on Computer Vision (ECCV)* 2022. arXiv:2208:5963.

[6] **Jason Y. Zhang**, Gengshan Yang, Shubham Tulsiani*, and Deva Ramanan* (* equal contribution). NeRS: Neural Reflectance Surfaces for Sparse-view 3D Reconstruction in the Wild. In *Neural Information Processing Systems (NeurIPS)* 2021. arXiv:2110:07604

[7] **Jason Y. Zhang***, Sam Pepose*, Hanbyul Joo, Deva Ramanan, Jitendra Malik, and Angjoo Kanazawa (* equal contribution). Perceiving 3D Human-Object Spatial Arrangements from a Single Image in the Wild. In *European Conference on Computer Vision (ECCV)* 2020. arXiv:2007:15649.

[8] **Jason Y. Zhang**, Angjoo Kanazawa, Panna Felsen, and Jitendra Malik. Predicting 3D Human Dynamics from Video. In *International Conference on Computer Vision (ICCV)* 2019. arXiv:1908.04781.

[9] Angjoo Kanazawa*, **Jason Y. Zhang***, Panna Felsen*, and Jitendra Malik (* equal contribution). Learning 3D Human Dynamics from Video. In *Conference on Computer Vision and Pattern Recognition (CVPR)* 2019. arXiv:1812.01601.

[10] **Jason Y. Zhang** and Anca D. Dragan. Learning from Extrapolated Corrections. In *International Conference on Robotics and Automation (ICRA)* 2019. arXiv:1812.01225.

## TEACHING EXPERIENCE

**16-899: Learning for 3D Vision** — Spring 2022
*Teaching Assistant* — *Pittsburgh, PA*

**16-720: Computer Vision** — Spring 2021
*Head Teaching Assistant* — *Pittsburgh, PA*

**Statistics 140: Probability for Data Science** — Fall 2018
*Head Teaching Assistant* — *Berkeley, CA*

**Statistics 140: Probability for Data Science** — Spring 2018
*Head Teaching Assistant* — *Berkeley, CA*

**Statistics 134: Concepts of Probability** — Fall 2017
*Teaching Assistant* — *Berkeley, CA*

**Statistics 140: Probability for Data Science** — Spring 2017
*Teaching Assistant* — *Berkeley, CA*

## SERVICE

- Reviewer: CVPR (20-24), ECCV (24), ICLR (24), 3DV (2024), SIGGRAPH (23), SIGGRAPH Asia (22-23), ICCV (21-23), ICRA (21), WACV (20), ACCV (20), TPAMI
- Organizer: CMU Misc-Read Vision Reading Group (2020-2023)

## AWARDS AND HONORS

- NSF Graduate Research Fellowship — 2020 – 2023
- Highest Distinction in General Scholarship — Spring 2019
- Outstanding Graduate Student Instructor Award — Spring 2019
- Computer Science Department Honors Thesis — Fall 2018
- Quantedge Award for Academic Excellence — Fall 2017
- Erdős Number: 3

## COURSEWORK

**CMU:**

Advanced Machine Learning
Computer Graphics
Computational Perception
Convex Optimization
Discrete Differential Geometry
Image Synthesis
Kinematics, Dynamics, and Control
Math for Robotics

**Berkeley:**

Algorithms
Algorithmic Human-Robot Interaction
Artificial Intelligence
Computer Vision
Computational Photography
Data Structures
Machine Learning
Operating Systems
Optimization
Probability Theory
Real Analysis