Zhengqi Li | Curriculum Vitae

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Education

Cornell Tech, Cornell University Ph.D. in computer science, GPA: 4.00/4.00 Advisor: Prof. Noah Snavely	New York, NY 2016-2021		
		University of Minnesota, Twin Cities	Minneapolis, MN
		Bachelor of Computer Engineering with High Distinction, GPA: 3.99/4.00 Awards	2013–2016
o Best Paper Finalist, CVPR 2024	2024		
o Best Student Paper Award, ICCV 2023	2023		
o Best Paper Honorable Mention Award, CVPR 2023	2023		
o Baidu Al Top 100 New Researchers, Baidu	2021		
o Google PhD Fellowship, Google	2020		
o Adobe Research Fellowship, Adobe Research	2020		
o Best Paper Honorable Mention Award, CVPR 2019	2019		
o TA Outstanding Award, Cornell University	2017		
o Outstanding Undergraduate Researchers Honorable Mention, CRA	2016		
o National Scholarship of China, Ministry of Education of China	2012		

Publications

- o **Zhengqi Li**, Richard Tucker, Noah Snavely, Aleksander Holynsk. Generative Image Dynamics. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024 (**Best Paper Finalist**)
- o 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 Award**)
- o **Zhengqi Li**, Qianqian Wang, Forrester Cole, Richard Tucker, Noah Snavely. DynlBaR: Neural Dynamic Image-Based Rendering. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023 (**Best Paper Honorable Mention Award**)
- o Lucy Chai, Richard Tucker, **Zhengqi Li**, Phillip Isola, Noah Snavely. Persistent Nature: A Generative Model of Unbounded 3D Worlds. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023
- o Mohammed Suhail, Erika Lu, **Zhengqi Li**, Noah Snavely, Leonid Sigal, Forrester Cole. Associating Objects and their Effects in Unconstrained Monocular Video. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023
- o **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**)

- o Zhoutong Zhang, Forrester Cole, **Zhengqi Li**, Michael Rubinstein, Noah Snavely, William T. Freeman . Structure and Motion for Casual Videos. *European Conference on Computer Vision (ECCV)*, 2022
- o Jiaming Sun, Xi Chen, Qianqian Wang, **Zhengqi Li**, Hadar Averbuch-Elor, Xiaowei Zhou, Noah Snavely. Neural 3D Reconstruction in the Wild. *International Conference on Computer Graphics and Interactive Technique (SIGGRAPH Conference Proceeding)*, 2022
- o Qianqian Wang, **Zhengqi Li**, David Salesin, Noah Snavely, Brian Curless, Janne Kontkanen. 3D Moments from Near-Duplicate Photos. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022
- o Vickie Ye, **Zhengqi Li**, Richard Tucker, Angjoo Kanazawa, Noah Snavely. Deformable Sprites for Unsupervised Video Decomposition. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022 (**Oral**)
- o Kai Zhang, Fujun Luan, **Zhengqi Li**, Noah Snavely. IRON: Inverse Rendering by Optimizing Neural SDFs and Materials from Photometric Images . *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022 (**Oral**)
- o **Zhengqi Li**, Simon Niklaus, Noah Snavely, Oliver Wang. Neural Scene Flow Fields for Space-Time View Synthesis of Dynamic Scenes. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021
- o **Zhengqi Li**, Wenqi Xian, Abe Davis, Noah Snavely. Crowdsampling the Plenoptic Function. *European Conference on Computer Vision (ECCV)*, 2020 (**Oral**)
- o **Zhengqi Li**, Tali Dekel, Forrester Cole, Richard Tucker, Noah Snavely, Ce Liu, William T. Freeman. MannequinChallenge: Learning the Depths of Moving People by Watching Frozen People. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*
- o Wenqi Xian*, **Zhengqi Li***, Matthew Fisher, Jonathan Eisenmann, Eli Shechtman, Noah Snavely. Upright-Net: Geometry-Aware Camera Orientation Estimation from Single Images. *International Conference on Computer Vision (ICCV)*, 2019 (* equal contribution)
- o **Zhengqi Li**, Tali Dekel, Forrester Cole, Richard Tucker, Noah Snavely, Ce Liu, William T. Freeman. Learning the Depths of Moving People by Watching Frozen People. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019 (**Best Paper Honorable Mention Award**)
- o **Zhengqi Li**, Noah Snavely. CGINTRINSICS: Better Intrinsic Image Decomposition through Physically-Based Rendering. *European Conference on Computer Vision (ECCV)*, 2018
- o **Zhengqi Li**, Noah Snavely. Learning Intrinsic Image Decomposition from Watching the World. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018 (**Spotlight**)
- o **Zhengqi Li**, Noah Snavely. MegaDepth: Learning Single-View Depth Prediction from Internet Photos. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018 (Invited to be presented at Bridges to 3D Workshop, CVPR 2018)
- o **Zhengqi Li**, Volkan Isler. Large Scale Image Mosaic Construction for Agricultural Applications. *IEEE Robotics and Automation Letters (RA-L)*, 2016
- o **Zhengqi Li**, Volkan Isler. Large Scale Image Mosaic Construction for Agricultural Applications. *IEEE International Conference on Robotics and Automation (ICRA)*, 2016

Experience

VisCAM Research

Senior Research Scientist VisCAM Research Research Scientist Google DeepMind 10/2023– Google Research 08/2021–10/2023 **Cornell Graphics and Vision Group**

Advisor: Prof. Noah Snavely 09/2016–05/2021

Research Intern, Adobe Research Seattle & NYC

Mentor: Oliver Wang, Simon Niklaus 05/2020–11/2020

Research Intern, Facebook Reality Lab
MPK

Mentor: Prof. Fernando De la Torre 05/2019–08/2019

Intern, Google ResearchCambridge & NYCMentor: Tali Dekel05/2018–02/2019

Multiple Autonomous Robotic Systems (MARS) Laboratory

Advisor: Prof. Stergios Roumeliotis 08/2014–05/2016

Robotic Sensor Networks (RSN) Laboratory UMN

Advisor: Prof. Volkan Isler 02/2015–12/2015

Patent

o Oliver Wang, Simon Niklaus, **Zhengqi Li**. View synthesis of a dynamic scene. *US Patent App.* 17/204,571, 2022

- o Tali Dekel, Cole Forrester, Ce Liu, William Freeman, Richard Tucker, Noah Snavely, **Zhengqi Li**. Depth Determination for Images Captured with a Moving Camera and Representing Moving Features . *US Patent App. 16 / 578,215, 2021*
- o Volkan Isler and **Zhengqi Li**. Large scale image mosaic construction for agricultural applications. *US Patent App. 15/415,347, 2018*

Invited Talks

- o 4D Dynamic Reconstruction Workshop, CVPR 2023
- o Peking University Computer Vision and Graphics Seminar, 2022
- o China Society of Image and Graphics (CSIG) 3DV, 2021
- o Sun Yat-Sen University Computer Vision and Graphics Seminar, 2021
- o MIT 3D Representations Seminar, 2021
- o UCSD Computer Vision and Graphics Seminar, 2021
- o NVIDIA GPU Technology Conference (GTC), 2020
- o GAMES: Graphics And Mixed Environment Seminar (GAMES), 2019

Other Services

- o Area Chair
 - Computer Vision and Pattern Recognition (CVPR)
- o Technical paper reviewer
 - Computer Vision and Pattern Recognition (CVPR)
 - European Conference on Computer Vision (ECCV)
 - International Conference on Computer Vision (ICCV)
 - International Conference on 3D Vision (3DV)
 - Asian Conference on Computer Vision (ACCV)
 - British Machine Vision Conference (BMVC)

Cornell Tech

UMN

- International Journal of Computer Vision (IJCV)
- ACM SIGGRAPH
- ACM SIGGRAPH Asia
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- IEEE Robotics and Automation Letters (RA-L)
- International Conference on Robotics and Automation (ICRA)
- International Conference on Intelligent Robots and Systems (IROS)
- IEEE Transactions on Image Processing (TIP)
- IEEE VR
- o Teaching Assistant
 - CS5787: Deep Learning, Cornell Tech
 - CS5670: Introduction to Computer Vision, Cornell University
 - CS4750/5750: Foundations of Robotics, Cornell University