

# Zhengqi Li | Curriculum Vitae

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## Education

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### 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

*Bachelor of Computer Engineering with High Distinction, GPA: 3.99/4.00*

**Minneapolis, MN**

2013–2016

## Awards

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- **Best Paper Award**, CVPR 2024 2024
- **Best Student Paper Award**, ICCV 2023 2023
- **Best Paper Honorable Mention Award**, CVPR 2023 2023
- **Baidu AI Top 100 New Researchers**, Baidu 2021
- **Google PhD Fellowship**, Google 2020
- **Adobe Research Fellowship**, Adobe Research 2020
- **Best Paper Honorable Mention Award**, CVPR 2019 2019
- **TA Outstanding Award**, Cornell University 2017
- **Outstanding Undergraduate Researchers Honorable Mention**, CRA 2016
- **National Scholarship of China**, Ministry of Education of China 2012

## Experience

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### Senior Research Scientist

*VisCAM Research*

**Google DeepMind**

2023-

### Research Scientist

*VisCAM Research*

**Google Research**

2021–2023

### Cornell Graphics and Vision Group

*Advisor: Prof. Noah Snavely*

**Cornell Tech**

2016–2021

### Research Intern, Adobe Research

*Mentor: Oliver Wang, Simon Niklaus*

**Seattle & NYC**

2020

### Research Intern, Facebook Reality Lab

*Mentor: Prof. Fernando De la Torre*

**MPK**

2019

### Intern, Google Research

*Mentor: Tali Dekel*

**Cambridge & NYC**

2018–2019

### Multiple Autonomous Robotic Systems (MARS) Laboratory

*Advisor: Prof. Stergios Roumeliotis*

**UMN**

2014–2016

## Publications

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- o Boyang Deng, Richard Tucker, **Zhengqi Li**, Leonidas J. Guibas, Noah Snavely, Gordon Wetzstein. Streetscapes: Large-scale Consistent Street View Generation Using Autoregressive Video Diffusion. *International Conference on Computer Graphics and Interactive Technique (SIGGRAPH)*, 2024
- o **Zhengqi Li**, Richard Tucker, Noah Snavely, Aleksander Holynsk. Generative Image Dynamics. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024 (**Best Paper Award**)
- 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. DynIBaR: 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)*

- 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)
- **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**)
- **Zhengqi Li**, Noah Snavely. CGINTRINSICS: Better Intrinsic Image Decomposition through Physically-Based Rendering. *European Conference on Computer Vision (ECCV)*, 2018
- **Zhengqi Li**, Noah Snavely. Learning Intrinsic Image Decomposition from Watching the World. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018 (**Spotlight**)
- **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)
- **Zhengqi Li**, Volkan Isler. Large Scale Image Mosaic Construction for Agricultural Applications. *IEEE Robotics and Automation Letters (RA-L)*, 2016
- **Zhengqi Li**, Volkan Isler. Large Scale Image Mosaic Construction for Agricultural Applications. *IEEE International Conference on Robotics and Automation (ICRA)*, 2016

## Patent

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- Oliver Wang, Simon Niklaus, **Zhengqi Li**. View synthesis of a dynamic scene. *US Patent App. 17/204,571, 2022*
- 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*
- Volkan Isler and **Zhengqi Li**. Large scale image mosaic construction for agricultural applications. *US Patent App. 15/415,347, 2018*

## Invited Talks

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

## Other Services

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- Area Chair
  - Computer Vision and Pattern Recognition (CVPR)
- 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)
- 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