

Curriculum vitae

Qifeng Chen

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PRESENT ACADEMIC POSITIONS

- Assistant Professor of CSE and ECE at HKUST, August 2018 - present

ACADEMIC QUALIFICATIONS

- PhD in Computer Science at Stanford University, June 2017
- Research Scientist at Intel Labs, September 2016 - July 2018
- Bachelor of Computer Science and Maths, HKUST, June 2012

PUBLICATIONS

- Chenyang Lei, Yazhou Xing, and **Qifeng Chen**, “Blind Video Temporal Consistency via Deep Video Prior,” Conference on Neural Information Processing Systems (NeurIPS), 2020
- Xuanchi Ren, Haoran Li, Zijian Huang, and **Qifeng Chen**, “Self-supervised Dance Video Synthesis Conditioned on Music,” ACM International Conference on Multimedia (ACM MM), 2020
- Haoran Song, Wenchao Ding, Yuxuan Chen, Shaojie Shen, Michael Yu Wang, and **Qifeng Chen**, “PiP: Planning-informed Trajectory Prediction for Autonomous Driving,” European Conference on Computer Vision (ECCV), 2020
- Duo Li and **Qifeng Chen**, “Deep Reinforced Attention Learning for Quality-Aware Visual Recognition,” European Conference on Computer Vision (ECCV), 2020
- Duo Li, Anbang Yao, and **Qifeng Chen**, “Learning to Learn Parameterized Classification Networks for Scalable Input Images,” European Conference on Computer Vision (ECCV), 2020
- Duo Li, Anbang Yao, and **Qifeng Chen**, “PSConv: Squeezing Feature Pyramid into One Compact Poly-Scale Convolutional Layer,” European Conference on Computer Vision (ECCV), 2020
- Ka Leong CHENG, Zhaoyang Yang, **Qifeng Chen**, and Yu-Wing Tai, “Fully Convolutional Networks for Continuous Sign Language Recognition,” European Conference on Computer Vision (ECCV), 2020

- Jiaxin Xie, Chenyang Lei, Zhuwen Li, Li Erran Li, and **Qifeng Chen**, “Video Depth Estimation by Fusing Flow-to-Depth Proposals,” International Conference on Intelligent Robots and Systems (IROS), 2020
- Weihao Yuan, Michael Yu Wang, and **Qifeng Chen**, “Self-supervised Object Tracking with Cycle-consistent Siamese Networks,” International Conference on Intelligent Robots and Systems (IROS), 2020
- Duo Li and **Qifeng Chen**, “Dynamic Hierarchical Mimicking Towards Consistent Optimization Objectives,” Conference on Computer Vision and Pattern Recognition (CVPR), 2020
- Yue Wu, Rongrong Gao, Jaesik Park, and **Qifeng Chen**, “Future Video Synthesis with Object Motion Prediction,” Conference on Computer Vision and Pattern Recognition (CVPR), 2020
- Chenyang Lei, Xuhua Huang, Mengdi Zhang, Qiong Yan, Wenxiu Sun, and **Qifeng Chen**, “Polarized Reflection Removal with Perfect Alignment in the Wild,” Conference on Computer Vision and Pattern Recognition (CVPR), 2020
- Kai Zhang, Jiaxin Xie, Noah Snavely, and **Qifeng Chen**, “Depth Sensing Beyond LiDAR Range,” Conference on Computer Vision and Pattern Recognition (CVPR), 2020
- Weihao Yuan, Rui Fan, Michael Yu Wang, and **Qifeng Chen**, “MFuseNet: Robust Depth Estimation with Learned Multiscopic Fusion,” International Conference on Robotics and Automation (ICRA), 2020
- Hyukyrul Yang, Hao Ouyang, Vladlen Koltun, and **Qifeng Chen**, “Hiding Video in Audio via Reversible Generative Models,” International Conference on Computer Vision (ICCV), 2019
- Chen Chen, **Qifeng Chen**, Minh Do, and Vladlen Koltun, “Seeing Motion in the Dark,” International Conference on Computer Vision (ICCV), 2019 (**Oral**)
- Chenyang Lei and **Qifeng Chen**, “Fully Automatic Video Colorization with Self-Regularization and Diversity,” Conference on Computer Vision and Pattern Recognition (CVPR), 2019
- Xuaner Zhang, **Qifeng Chen**, Ren Ng, and Vladlen Koltun, “Zoom to Learn, Learn to Zoom,” Conference on Computer Vision and Pattern Recognition (CVPR), 2019
- Xiaojuan Qi, Zhengzhe Liu, **Qifeng Chen**, and Jiaya Jia, “3D Motion Decomposition for RGBD Future Dynamic Scene Synthesis,” Conference on Computer Vision and Pattern Recognition (CVPR), 2019

- Francois G Germain, **Qifeng Chen**, and Vladlen Koltun, “Speech Denoising with Deep Feature Losses,” Conference of the International Speech Communication Association (INTERSPEECH), 2019
- Xuaner Zhang, Ren Ng, and **Qifeng Chen**, “Single Image Reflection Separation with Perceptual Losses,” Conference on Computer Vision and Pattern Recognition (CVPR), 2018
- Xiaojuan Qi, **Qifeng Chen**, Jiaya Jia, and Vladlen Koltun, “Semi-parametric Image Synthesis,” Conference on Computer Vision and Pattern Recognition (CVPR), 2018 **(Oral)**
- Zhuwen Li, **Qifeng Chen**, and Vladlen Koltun. “Combinatorial Optimization with Graph Convolutional Networks and Guided Tree Search,” Conference on Neural Information Processing Systems (NeurIPS), 2018
- Chen Chen, **Qifeng Chen**, Jia Xu, and Vladlen Koltun, “Learning to See in the Dark,” Conference on Computer Vision and Pattern Recognition (CVPR), 2018
- Zhuwen Li, **Qifeng Chen**, and Vladlen Koltun, “Interactive Image Segmentation with Latent Diversity,” Conference on Computer Vision and Pattern Recognition (CVPR), 2018
- **Qifeng Chen** and Vladlen Koltun, “Photographic Image Synthesis with Cascaded Refinement Networks,” International Conference on Computer Vision (ICCV), 2017 **(Oral)**
- **Qifeng Chen**, Jia Xu, and Vladlen Koltun. “Fast Image Processing with Fully-Convolutional Networks,” International Conference on Computer Vision (ICCV), 2017
- **Qifeng Chen** and Vladlen Koltun. “Full Flow: Optical Flow Estimation By Global Optimization over Regular Grids,” Conference on Computer Vision and Pattern Recognition (CVPR), 2016 **(Oral)**
- René Ranftl, Vibhav Vineet, **Qifeng Chen**, and Vladlen Koltun. “Dense Monocular Depth Estimation in Complex Dynamic Scenes,” Conference on Computer Vision and Pattern Recognition (CVPR), 2016
- **Qifeng Chen** and Vladlen Koltun. “Robust Nonrigid Registration by Convex Optimization,” International Conference on Computer Vision (ICCV), 2015 **(Oral)**
- **Qifeng Chen** and Vladlen Koltun. “Fast MRF Optimization with Application to Depth Reconstruction,” Conference on Computer Vision and Pattern Recognition (CVPR), 2014

- **Qifeng Chen** and Vladlen Koltun. “A Simple Model for Intrinsic Image Decomposition with Depth Cues,” International Conference on Computer Vision (ICCV), 2013
- Dingzeyu Li, **Qifeng Chen**, and Chi-Keung Tang. “Motion-Aware KNN Laplacian for Video Matting,” IEEE International Conference on Computer Vision (ICCV), 2013
- **Qifeng Chen**, Dingzeyu Li, and Chi-Keung Tang. “KNN Matting,” IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI), 2013
- **Qifeng Chen**, Dingzeyu Li, and Chi-Keung Tang. “KNN Matting,” Conference on Computer Vision and Pattern Recognition (CVPR), 2012

AWARDS & DISTINCTIONS

- Google Faculty Research Award in 2018
- Named one 35 Innovators under 35 in China in 2018 by MIT Technology Review
- 2nd Place worldwide at the ACM-ICPC World Finals 2011
- Ranked 12th in the world at Google Code Jam World Finals, 2012
- Gold Medal at International Olympiad in Informatics contest (IOI) in Croatia, 2007
- Co-founded *Lino Network* to build decentralized YouTube (funded 20 million USD), 2017