

# Qifeng Chen

## ACADEMIC QUALIFICATIONS

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

## PRESENT ACADEMIC POSITIONS

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

## FIVE MOST REPRESENTATIVE PUBLICATIONS IN RECENT FIVE YEARS

- Xiaojuan Qi, **Qifeng Chen**, Jiaya Jia, and Vladlen Koltun, "Semi-parametric Image Synthesis," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018 (**Oral**)
- **Qifeng Chen** and Vladlen Koltun, "Photographic Image Synthesis with Cascaded Refinement Networks," IEEE International Conference on Computer Vision (ICCV), 2017 (**Oral**)
- **Qifeng Chen**, Jia Xu, and Vladlen Koltun. "Fast Image Processing with Fully-Convolutional Networks," IEEE International Conference on Computer Vision (ICCV), 2017
- **Qifeng Chen** and Vladlen Koltun. "Full Flow: Optical Flow Estimation By Global Optimization over Regular Grids," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016 (**Oral**)
- **Qifeng Chen** and Vladlen Koltun. "Robust Nonrigid Registration by Convex Optimization," IEEE International Conference on Computer Vision (ICCV), 2015 (**Oral**)

## OTHER PUBLICATIONS

- Xuaner Zhang, Ren Ng, and **Qifeng Chen**, "Single Image Reflection Separation with Perceptual Losses," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018
- Chen Chen, **Qifeng Chen**, Jia Xu, and Vladlen Koltun, "Learning to See in the Dark," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018

- Zhuwen Li, **Qifeng Chen**, and Vladlen Koltun, “Interactive Image Segmentation with Latent Diversity,” IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018
- René Ranftl, Vibhav Vineet, **Qifeng Chen**, and Vladlen Koltun. “Dense Monocular Depth Estimation in Complex Dynamic Scenes,” IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016
- **Qifeng Chen** and Vladlen Koltun. “Fast MRF Optimization with Application to Depth Reconstruction,” IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2014
- **Qifeng Chen** and Vladlen Koltun. “A Simple Model for Intrinsic Image Decomposition with Depth Cues,” IEEE 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,” IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2012

## **AWARDS & DISTINCTIONS**

- Full Oral Presentations (about 3% acceptance rate) at ICCV 2015, CVPR 2016, ICCV 2017, and CVPR 2018
- Gold Medal at the ACM-ICPC World Finals in Orlando, 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* which raised 20 million USD, 2017 - 2018

## **PATENTS**

- Approximating Image Processing Functions Using Convolutional Neural Networks (P115319)
- Speech Denoising with Deep Feature Losses (AA9335-US)
- Deep Learning based Image Processing Pipeline for Fast Low-light Imaging (AA6712-US)

## **STUDENTS**

- PhD students: Chenyang Lei, Jiaxin Xie, Yazhou Xing, Yue Wu, Na Fan
- MPhil students: Ouyang Hao, Hyukryul Yang