

# Kangfu Mei

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## EDUCATION

- Ph.D. Electrical and Computer Engineering, JHU, Baltimore, USA, 2021-
- M.S. Computer and Information Engineering, CUHK, Shenzhen, China, 2019-2021
- B.S. Computer Science and Technology, JXNU, Nangchang, China, 2015-2019

## INTERNSHIPS

- 2022- Adobe Research, USA  
Research Intern, working on shadow removal projects
- 2020-21 DAMO Academy, Alibaba-Group, China  
Research Intern, worked on automatic old film reparation algorithms with generative methods
- 2018-19 Kwai Technology, China  
Image Algorithm Engineer Intern, worked on algorithms for improving the low-quality mobile cameras with Deep Learning.
- 2017-18 JD.COM, China  
Software Architecture Engineer Intern

## RESEARCH AREAS

Computational Photography  
Generative Models

## GRANTS AND AWARDS

### Awards and Honors

- 2019 First place, Advances in Image Manipulation Challenges (RAW2RGB) in ICCV 2019
- 2019 6-th, New Trends in Image Restoration and Enhancement (Dehazing) in CVPR 2018

### Fellowships

- 2021- Johns Hopkins University, PhD Fellowships
- 2019-21 The Chinese University of Hong Kong, Shenzhen, Research Assitant Fellowships

## PUBLICATIONS

### Journal Articles

- 2020 Li, J., Fang, F., Li, J., Mei, K., & Zhang, G. “MDCN: Multi-scale dense cross network for image super-resolution.” *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*. [arXiv](#)

### Conference Proceedings

- 2022 Mei, K., Patel, V. M., & Huang, R. “Deep Semantic Statistics Matching (D2SM) Denoising Network.” *European Conference on Computer Vision (ECCV)*. [arXiv](#)
- 2022 Nair, N. G., Mei, K., & Patel, V. M. “AT-DDPM: Restoring Faces degraded by Atmospheric Turbulence using Denoising Diffusion Probabilistic Models.” *Winter Conference on Applications of Computer Vision (WACV)*. [arXiv](#)
- 2021 Mei, K., Ye, S., & Huang, R. “SDAN: Squared Deformable Alignment Network for Learning Misaligned Optical Zoom.” *IEEE International Conference on Multimedia and Expo (ICME)*. [arXiv](#)
- 2021 Song, Q., Mei, K., & Huang, R. “AttaNet: Attention-Augmented Network for Fast and Accurate Scene Parsing.” *AAAI Conference on Artificial Intelligence (AAAI)*. [arXiv](#)
- 2019 Mei, K., Li, J., Zhang, J., Wu, H., Li, J., & Huang, R. “Higher-resolution network for image demosaicing and enhancing.” *International Conference on Computer Vision Workshop (ICCV)*. [arXiv](#)
- 2018 Li, J., Fang, F., Mei, K., & Zhang, G. “Multi-scale Residual Network for Image Super-Resolution.” *European Conference on Computer Vision (ECCV)*. [openaccess](#)
- 2018 Mei, K., Jiang, A., Li, J., & Wang, M. “Progressive feature fusion network for realistic image dehazing.” *Asian Conference on Computer Vision (ACCV)*. [arXiv](#)

### Preprints

- 2022 Mei, K., & Patel, V. M. “VIDM: Video Implicit Diffusion Models.” Under review
- 2022 Mei, K., Nair, N. G., & Patel, V. M. “Bi-Noising Diffusion: Towards Conditional Diffusion Models with Generative Restoration Priors” Under review
- 2022 Mei, K., Luis, L., Lin, Z., Ding, Z., Scott, C., & Patel, V. M. “ShadowDiffuser: On the Intrinsic Image Modeling from Shadows for Diffusional Removal” Under review

## SERVICE

### Academic Journal Peer Review

*International Journal of Computer Vision (IJCV)*

*IEEE Transactions on Image Processing (TIP)*

*IEEE Transactions on Multimedia (TMM)*

*IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*

*Computer Vision and Image Understanding (CVIU)*

**Academic Conference Peer Review**

*Computer Vision and Pattern Recognition Conference (CVPR)*

*European Conference on Computer Vision (ECCV)*

*Winter Conference on Applications of Computer Vision (WACV)*

*AAAI Conference on Artificial Intelligence (AAAI)*

Updated November 2022