

Kangfu Mei

Department of Electrical and Computer Engineering
Whiting School of Engineering
Johns Hopkins University

kmeir@jhu.edu
+1 443 240 5261
kfmei.page

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

- 2022-22 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

- 2021-22 Johns Hopkins University, PhD Fellowships
- 2019-21 The Chinese University of Hong Kong, Shenzhen, Research Assitant Fellowships

PUBLICATIONS

Journal Articles

- 2023 **Mei, K.**, & Patel, V. M. “LTT-GAN: Looking Through Turbulence by Inverting GANs.” *IEEE Journal of Selected Topics in Signal Processing (JSTSP)*. [\[arXiv\]](#) [Impact Factor: 7.695]
- 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)*. [\[arXiv\]](#) [Impact Factor: 5.859]

Conference Proceedings

- 2023 **Mei, K.**, & Patel, V. M. “VIDM: Video Implicit Diffusion Models.” *AAAI Conference on Artificial Intelligence (AAAI)*. [\[arXiv\]](#)
- 2022 **Mei, K.**, Patel, V. M., & Huang, R. “Deep Semantic Statistics Matching (D2SM) Denoising Network.” *European Conference on Computer Vision (ECCV)*. [\[arXiv\]](#)
- 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)*. [\[arXiv\]](#)
- 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 (ICCVW)*. [\[arXiv\]](#)
- 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.**, Nair, N. G., & Patel, V. M. “Bi-Noising Diffusion: Towards Conditional Diffusion Models with Generative Restoration Priors” Under review [\[arXiv\]](#)
- 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)

