

Kangfu Mei

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EDUCATION

| | | |
|-------|---|-----------|
| Ph.D. | Johns Hopkins University | 2021-2025 |
| M.S. | The Chinese University of Hong Kong, Shenzhen | 2019-2021 |
| B.S. | Jiangxi Normal University | 2015-2019 |

INTERNSHIPS

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|---------------|--|
| 2024/06–24/08 | Google Research, USA Research Intern, working on generative models |
| 2023/06–24/04 | Google Research, USA Student Researcher, working on generative models |
| 2022/06–22/11 | Adobe Research, USA Research Intern, worked on generative restoration |
| 2020/06–20/11 | DAMO Academy, Alibaba-Group, China Research Intern, worked on automatic old film reparation algorithms. |
| 2018/07–19/05 | Kwai Technology, China Image Algorithm Engineer Intern, mobile camera quality engineer. |
| 2017/07–17/11 | JD.COM, China Software Architecture Engineer Intern, Javascript, CSS, and HTML |

RESEARCH AREAS

Generative Models

Computational Photography and Imaging

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

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

PUBLICATIONS

Preprints

- 2024 **Mei, K.**, Tu, Z., Delbracio, M., Talebi, H., Patel, V.M., & Milanfar, P. “Bigger is not Always Better: Scaling Properties of Latent Diffusion Models” CVPR24 EDGE Workshop && Under review [\[arXiv\]](#)
- 2024 **Mei, K.**, Mo, Zhou., & Patel, V. M. “Tr: Scaling Diffusion Probabilistic Fields to High-Resolution on Unified Visual Modalities” Under review [\[arXiv\]](#)

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

- 2024 **Mei, K.**, Delbracio, M., Talebi, H., Tu, Z., Patel, V.M., & Milanfar, P. “CoDi: Conditional Diffusion Distillation for Higher-Fidelity and Faster Image Generation” *Conference on Computer Vision and Pattern Recognition (CVPR)*.
- 2024 **Mei, K.**, Luis, L., Lin, Z., Ding, Z., Scott, C., & Patel, V. M. “Latent Feature-Guided Diffusion Models for Shadow Removal” *Winter Conference on Applications of Computer Vision (WACV)*.
- 2023 **Mei, K.**, & Patel, V. M. “VIDM: Video Implicit Diffusion Models.” *AAAI Conference on Artificial Intelligence (AAAI)*. [\[arXiv\]](#) [Oral]
- 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.” *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 (ICCVW)*. [\[arXiv\]](#)
- 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)*. [\[arXiv\]](#)

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

CVPR, ICCV, ECCV, WACV, AAAI, ...

REFERENCES

JHU

Visbal M. Patel

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Google

Mauricio Delbracio

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Peyman Milanfar

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