Kevin Zhang

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EDUCATION

University of Maryland, College Park **2021-**
Ph.D. in Computer Science, Coadvisors: Christopher Metzler, Jia-Bin Huang

University of California, Berkeley **2017-2021**
B.A. in Computer Science, B.A in Mathematics
Overall GPA: 3.85, CS GPA: 3.97

PUBLICATIONS

[1] *AONeuS: A Neural Rendering Framework for Acoustic-Optical Sensor Fusion*
Mohamad Qadri*, **Kevin Zhang***, (* indicates equal contribution), Akshay Hinduja, Michael Kaess, Adithya Pediredla, Christopher A. Metzler
`https://arxiv.org/abs/2402.03309`
SIGGRAPH 2024 (conference track full paper)

[2] *Seeing the World through Your Eyes*
Hadi Alzayer*, **Kevin Zhang***, (* indicates equal contribution), Brandon Feng, Christopher A. Metzler, Jia-bin Huang
`https://arxiv.org/abs/2306.09348`
CVPR 2024, **Oral (3.3% of accepted papers)**

[3] *PAniC-3D: Stylized Single-view 3D Reconstruction from Portraits of Anime Characters*
Shuhong Chen, **Kevin Zhang**, Yichun Shi, Heng Wang, Yiheng Zhu, Guoxian Song, Sizhe An, Janus ór Kristjánsson, Xiao Yang, Matthias Zwicker
`https://openaccess.thecvf.com/content/CVPR2023/html/Chen_PAniC-3D_Stylized_`
`Single-View_3D_Reconstruction_From_Portraits_of_Anime_Characters_CVPR_2023_`
`paper.html`
CVPR 2023

[4] *Memory-efficient Learning for High-Dimensional MRI Reconstruction*
Ke Wang, Michael Kellman, Christopher M Sandino, **Kevin Zhang**, Shreyas S. Vasanawala, Jonathan I Tamir, Stella X Yu, Michael Lustig
`https://miccai2021.org/openaccess/paperlinks/2021/09/01/305-Paper2251.html`
MICCAI 2021

[5] *Memory-efficient Learning for Large-scale Computational Imaging*
Michael Kellman, **Kevin Zhang**, Jon Tamir, Emrah Bostan, Michael Lustig, Laura Waller
`https://ieeexplore.ieee.org/document/9204455`
IEEE Transactions on Computational Imaging, 2020

TALKS

[6] *3D Fluorescence Deconvolution with Deep Priors*
Joint work with Michael Kellman, Emrah Bostan, and Laura Waller.
`https://doi.org/10.1117/12.2545041`
Society of Photographic Instrumentation Engineers (SPIE) West, February 2020

[7] *Memory-Efficient Learning for Unrolled 3D MRI Reconstructions*
Joint work with Michael Kellman, Jon Tamir, Emrah Bostan, Michael Lustig, and Laura Waller.
Recording of talk: `https://youtu.be/AypmyOlqVK8`
International Society of Magnetic Resonance in Imaging (ISMRM) Workshop on Data Sampling & Image Reconstruction, January 2020

PREPRINTS

[8] *A Scalable Training Strategy for Blind Multi-Distribution Noise Removal*
Kevin Zhang, Sakshum Kulshrestha, Christopher A. Metzler
`https://arxiv.org/abs/2310.20064`, 2023

[9] *MetaDIP: Accelerating Deep Image Prior with Meta Learning*
Kevin Zhang, Mingyang Xie, Maharshi Gor, Yi-Ting Chen, Yvonne Zhou, Christopher A. Metzler
`https://arxiv.org/abs/2209.08452`, 2022

EXPERIENCE

Berkeley Computational Imaging Lab
Research Assistant **Aug 2018 - May 2020**
 Advisors: Laura Waller, Miki Lustig

Google
Software Engineering Intern **Jun - Aug 2019**

TECHNICAL
SKILLS

Languages/frameworks: Python (PyTorch, NumPy, SciPy, Matplotlib, OpenCV-python, plotly.py), Java, Javascript, HTML/CSS

Other technologies: Unix, Git, Blender, Slurm, Adobe Illustrator