

Zipei Yan

PhD Student, CUHK

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Education

The Chinese University of Hong Kong (CUHK)

PhD Student; Department of Electronic Engineering; Supervisor: Dr. Jizhou Li
Research Interest: Image Restoration; Medical Image Analysis; Visual Recognition

Hong Kong SAR, China

Aug. 2024 - Present

The Hong Kong Polytechnic University (HK PolyU)

Master of Philosophy; Department of Computing; Supervisor: Dr. Linchuan Xu

Hong Kong SAR, China

Jan. 2021 - Aug. 2023

Chongqing University of Posts and Telecommunications (CQUPT)

Bachelor of Engineering in Software Engineering

Chongqing, China

Aug. 2016 - June 2020

Experience

City University of Hong Kong (CityU HK)

Research Assistant; Supervisor: Dr. Jizhou Li, School of Data Science

Hong Kong SAR, China

Oct. 2023 - July 2024

City University of Hong Kong (CityU HK)

Research Intern; Supervisor: Dr. Jizhou Li, School of Data Science

Hong Kong SAR, China

Apr. 2023 - Sep. 2023

The Hong Kong Polytechnic University (HK PolyU)

Research Assistant (Part-time); Supervisor: Dr. Linchuan Xu, Department of Computing

Hong Kong SAR, China

Mar. 2021 - Mar. 2023

Publications

Conference proceedings

- Zipei Yan¹, Zhile Liang, Zhengji Liu, Shuai Wang, Rachel Chun, Jizhou Li, Chea-su Kee, Dong Liang, “Generalized Robust Fundus Photography-based Vision Loss Estimation for High Myopia”, in *MICCAI*, 2024.
- Ivo John, Zipei Yan², Aleksander Bogucki, Michal Swiatek, Hugo Chrost, Michal Wlodarski, Radosław Chrapkiewicz, Jizhou Li, “Unsupervised Stabilization of Smartphone-based Quantitative Pupillometry for Mobile Emergency Medicine”, in *ISBI*, 2024.
- Zipei Yan¹, Zhengji Liu, Jizhou Li, “Boosting of Implicit Neural Representation-based Image Denoiser”, in *ICASSP*, 2024.
- Zipei Yan¹, Dong Liang, Linchuan Xu, Jiahang Li, Zhengji Liu, Shuai Wang, Jiannong Cao, Chea-su Kee, “Vision Loss Estimation using Fundus Photograph for High Myopia”, in *MICCAI*, 2023.
- Shuai Wang, Daoan Zhang, Zipei Yan³, Jianguo Zhang, Rui Li, “Feature Alignment and Uniformity for Test Time Adaptation”, in *CVPR*, 2023.
- Shuai Wang, Zipei Yan², Daoan Zhang, Haining Wei, Zhongsen Li, Rui Li, “Prototype Knowledge Distillation for Medical Segmentation with Missing Modality”, in *ICASSP*, 2023.
- Zipei Yan¹, Linchuan Xu, Atsushi Suzuki, Jing Wang, Jiannong Cao, Jun Huang, “RGB Color Model Aware Computational Color Naming and Its Application to Data Augmentation”, in *IEEE Big Data*, 2022.

Preprints

- Ting Wang, Zipei Yan¹, Jizhou Li, Xile Zhao, Chao Wang, Michael Ng, “Hyperspectral and Multispectral Image Fusion with Arbitrary Resolution through Self-supervised Representations”, *arXiv*, 2024.
- Shuai Wang, Zipei Yan², Daoan Zhang, Zhongsen Li, Sirui Wu, Wenxuan Chen, Rui Li, “Towards Generalizable Medical Image Segmentation with Pixel-wise Uncertainty Estimation”, *arXiv*, 2023.
- Shuai Wang, Daoan Zhang, Zipei Yan³, Shitong Shao, Rui Li, “Black-box Source-free Domain Adaptation via Two-stage Knowledge Distillation”, *arXiv*, 2023.