Zipei Yan

Research Assistant, CityU HK

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Education

The Hong Kong Polytechnic University (HK PolyU) **Hong Kong SAR, China**
Master of Philosophy; Department of Computing; Supervisor: Dr. Linchuan Xu Jan. 2021 - Aug. 2023
Research Interest: Image Restoration; Visual Recognition; Medical Image Analysis
GPA: 3.57/4.30

Chongqing University of Posts and Telecommunications (CQUPT) **Chongqing, China**
Bachelor of Engineering in Software Engineering Aug. 2016 - June. 2020
GPA: 81/100; Ranking: 26/305

Experience

City University of Hong Kong (CityU HK) **Hong Kong SAR, China**
Research Assistant; Supervisor: Dr. Jizhou Li, School of Data Science Oct. 2023 - Present

City University of Hong Kong (CityU HK) **Hong Kong SAR, China**
Research Intern; Supervisor: Dr. Jizhou Li, School of Data Science Apr. 2023 - Sep. 2023
Research Project: Stationary Imaging Data Denoising

The Hong Kong Polytechnic University (HK PolyU) **Hong Kong SAR, China**
Research Assistant (Part-time); Supervisor: Dr. Linchuan Xu, Department of Computing Mar. 2021 - Mar. 2023
Research Project: Computational Color Naming and Its Applications to Image Recognition

Publications

Conference proceedings
- Zipei Yan[1], Zhengji Liu, Jizhou Li, "Boosting of Implicit Neural Representation-based Image Denoiser", in *ICASSP*, 2024.
- Zipei Yan[1], 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 Yan[3], Jianguo Zhang, Rui Li, "Feature Alignment and Uniformity for Test Time Adaptation", in *CVPR*, 2023.
- Shuai Wang, Zipei Yan[2], Daoan Zhang, Haining Wei, Zhongsen Li, Rui Li, "Prototype Knowledge Distillation for Medical Segmentation with Missing Modality", in *ICASSP*, 2023.
- Zipei Yan[1], 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
- Zipei Yan[1], Zhengji Liu, Jizhou Li, "Spatial-Temporal Adaptive Regression for Stationary Imaging Data Denoising", *Under review*, 2023.
- Shuai Wang, Zipei Yan[2], 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 Yan[3], Shitong Shao, Rui Li, "Black-box Source-free Domain Adaptation via Two-stage Knowledge Distillation", *arXiv*, 2023.

Skills

- **Language**: Mandarin (Native Speaker), English (TOEFL 93)
- **Programming Language**: Python, Java, Matlab, C, SQL
- **Python**: NumPy, PyTorch, Keras
- **Java**: JVM, Design Pattern, Servlet, Spring Boot, Mybatis
- **Others**: Git, Maven, LaTeX