

ZIPEI YAN

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EDUCATION

The Hong Kong Polytechnic University (HK PolyU)

Hong Kong SAR, China

Master of Philosophy; Supervisor: Dr. Linchuan Xu; Department of Computing; GPA: 3.57/4.30 Jan. 2021 - Current

- **Research Interests:** Visual Recognition; Medical Image Analysis; Image Denoising
- **Thesis:** Auxiliary Supervision for Regularizing Deep Learning Based Image Classification

Chongqing University of Posts and Telecommunications (CQUPT)

Chongqing, China

Bachelor of Engineering in Software Engineering; GPA: 82/100; RANKING: 26/305

Aug. 2016 - June. 2020

EXPERIENCES

City University of Hong Kong (CityU HK)

Hong Kong SAR, China

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

Apr. 2023 - Current

- Research project: Spatial-Temporal Adaptive Regression for Stationary Imaging Data Denoising
- Responsible for the algorithm design and implementation.

The Hong Kong Polytechnic University (HK PolyU)

Hong Kong SAR, China

Research Assistant (part-time), Supervisor: Dr XU Linchuan, Department of Computing

Jan. 2021 - Mar. 2023

- Research project: Computational Color Naming and Its Applications to Image Recognition
- Responsible for the algorithm design and implementation.

CQUPT Redrock Studio

Chongqing, China

Deputy Director of Web Department (part-time)

Sep. 2017 - Sep. 2019

- Led the development of the backend APIs of Web APPs.
- Responsible for online projects' maintenance and bug fixes.

PUBLICATIONS

Conference proceedings

- 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", *MICCAI*, 2023.
- Shuai Wang, Daoan Zhang, Zipei Yan³, Jianguo Zhang, Rui Li, "Feature Alignment and Uniformity for Test Time Adaptation", *CVPR*, 2023.
- Shuai Wang, Zipei Yan², Daoan Zhang, Haining Wei, Zhongsen Li, Rui Li, "Prototype Knowledge Distillation for Medical Segmentation with Missing Modality", *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", *IEEE BigData*, 2022.

Preprints

- 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.

PROJECTS

Mobile CQUPT

🌐 Website 📄 Github

Campus life and information APP, has 25000+ users, 8000+ DAUs

- Developed 'Freshman Topic', 'CQUPT Map', 'Curriculum', and basic frameworks.
- Managed Git cooperation, code review, and project maintenance.

SKILLS

- **Language:** Mandarin (Native Speaker), English (TOEFL 93)
- **Programming Language:** Java, C, Python, SQL
- **Python:** NumPy, Pandas, PyTorch, Keras
- **Java:** JVM, Design Pattern, Servlet, Spring Boot, Mybatis
- **Computer Network:** TCP/IP, HTTP, HTTPS, JWT, REST API
- **Database:** MySQL, Redis
- **Others:** Git, Maven, LaTeX