Yicheng (Albert) Zhan

Mobile: +44 (0) 7529150752 | E-mail: albertg2001@outlook.com | Google Scholar | GitHub

EDUCATION

Ph.D. candidate (1st year) **Jan. 2024 - Now**

University College London - Computational Light Laboratory **London, United Kingdom**

- **Core Interested Fields**: Computer-Generated Holography, Multi-task Learning, Deep Learning for Physics, Holographic Displays.
- **Thesis Title:** Advanced Algorithms for Next-Generation Computational Displays. (**Mentor**: Assoc. Prof. Kaan Akşit)

M.Sc. in Computer Graphics and Vision Imaging **Sep. 2021-Sep. 2022**

University College London **London, United Kingdom**

- **Graduate Result**: First Class Distinction
- **Core Courses**: Image Processing, Computer Graphics, Machine Vision, Computational Modelling for Biomedical Imaging, Perception and Interfaces, Virtual Environments.
- **Dissertation Title**: Urban Semantic Understanding. (**Supervisor**: Assoc. Prof. Melinos Averkiou)

BS in Software Engineering and Computer Science **Sep. 2018- Sep. 2021**

King's College London **London, United Kingdom**

- **Graduate Result**: First Class Honors
- **Awards**: Received King's Undergraduate Research Fellowship for excellent academic performance.
- **Core Courses**: Machine Learning, Artificial Intelligence, Data Structure, Database System, Computer System, Software Engineering Development, Software Architecture and Design, Programming Language Design Paradigms
- **Dissertation**: Slackbot Security Evaluation. (**Supervisor**: Prof. Jose Such)

WORK EXPERIENCE

Neural Representation | Research Intern **Mar. 2025- Now**

Huawei Technologies Research & Development Ltd (**Supervisor**: Dr. Songcen Xu) **London, United Kingdom**

- Conduct research on 3D Gaussian Splatting.

Crime Linkage Analysis | Research Assistant **July. 2023- Jan. 2025**

Imperial College London (**Supervisor**: Assoc. Prof. Dalal Alrajeh) **London, United Kingdom**

- Designed advanced machine learning networks to enhance efficiency and accuracy in crime linkage analysis.

Computer Vision | Research Assistant **Apr. 2023- Dec.2023**

University of Leeds (**Supervisor**: Dr. Raheleh Jafari) **Leeds, United Kingdom**

- Developed efficient algorithms for fashion clothing segmentation and color extraction in computer graphics. Utilized advanced network architectures and knowledge distillation for precise and effective segmentation.

AI Programmer | Intern **Jul. 2020- Sep. 2020**

Microsoft China (**Supervisor**: Dr. Wenbin Cai) **Beijing, China**

- Developed a universal web crawler to scrape daily news, simulating search engine behavior for an online news-feeding application.

PUBLICATIONS

- **Yicheng Zhan**, Qi Sun, Liang Shi, Wojciech Matusik, and Kaan Akşit, *"Towards Configurable Learned Holography" 2024*. (In preparation) (Web)
- **Yicheng Zhan**, Koray Kavaklı1, Hakan Urey, Qi Sun, and Kaan Akşit, *"AutoColor: Learned Light Power Control for Multi-Color Holograms" SPIE VR/AR/MR 2024*. (Web)
- Chuanjun Zheng, **Yicheng Zhan**, Liang Shi, Ozan Cakmakci and Kaan Akşit, *ACM SIGGRAPH ASIA 2024 Tech Comm "Focal Surface Holographic Light Transport using Learned Spatially Adaptive Convolutions"*. (Web)

SKILLS

Language skills: English (fluent), Chinese (native), Spanish (Intermediate)

Interests: Compose music (Spotify, NetEase Music), cs2, indoor climbing.