Yicheng (Albert) Zhan

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EDUCATION

Ph.D. candidate (2nd year) **Jan. 2024 - Now**
University College London - Computational Light Laboratory **London, United Kingdom**

- **Core Fields**: Computer-Generated Holography, Computer Graphics, Computational 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
- **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
- **Dissertation**: Slackbot Security Evaluation. (**Supervisor**: Prof. Jose Such)

WORK EXPERIENCE

Research Intern - Neural Representation **Apr. 2025- Sep. 2025**
Huawei Technologies Research & Development Ltd (**Supervisor**: Dr. Arthur Moreau) **London, United Kingdom**

- 4DGS generation, Human pose estimation.

Research Assistant - Crime Linkage Analysis **Jul. 2023- Jan. 2025**
Imperial College London (**Supervisor**: Assoc. Prof. Dalal Alrajeh) **London, United Kingdom**

- Advanced neural networks to enhance efficiency and accuracy in serial crime linkage analysis.

Research Assistant - Computer Vision **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 vision.

AI Programmer Intern **Jul. 2020- Sep. 2020**
Microsoft China (**Supervisor**: Dr. Wenbin Cai) **Beijing, China**

- Universal web crawler for daily news aggregation, simulating search engine behavior.

PUBLICATIONS

- **Yicheng Zhan**, Dong-Ha Shin, Seung-Hwan Baek, and Kaan Akşit, *"Complex-Valued Holographic Radiance Fields"* 2025. (In preparation) (Web)
- **Yicheng Zhan**, Qi Sun, Liang Shi, Wojciech Matusik, and Kaan Akşit, *"Configurable Holography: Towards Display and Scene Adaptation"* 2024. (In preparation) (Web)
- **Yicheng Zhan**, Koray Kavaklı, 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, *"Focal Surface Holographic Light Transport using Learned Spatially Adaptive Convolutions" ACM SIGGRAPH ASIA 2024 Tech Comm.*. (Web)
- Zicong Peng, **Yicheng Zhan**, Josef Spjut, and Kaan Akşit, *"Assessing Learned Models for Phase-only Hologram Compression" ACM SIGGRAPH 2025 Posters*. (Web)
- **Yicheng Zhan**, Fahim Ahmed, Amy Burrell, Matthew J. Tonkin, Sarah Galambos, Jessica Woodhams, and Dalal Alrajeh, *"Enhancing Binary Encoded Crime Linkage Analysis Using Siamese Network" AAAI 2026*.

SKILLS

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

Interests: Compose music (Spotify, NetEase Music).