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, Computer Vision, 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
- **Awards**: Received King's Undergraduate Research Fellowship for excellent academic performance.
- **Dissertation**: [Slackbot Security Evaluation.](#) (**Supervisor**: Prof. Jose Such)

WORK EXPERIENCE

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

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

- 4DGS generation, Human pose estimation.

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**, 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, *"Towards Configurable Learned Holography" 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](#))

SKILLS

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

Interests: Compose music ([Spotify](#), [NetEase Music](#)).