Yicheng (Albert) Zhan

E-mail: yicheng_zhan2001@outlook.com — Google Scholar — GitHub

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)

B.Sc. (Hons) 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 - Optics Optimization **Mar. 2026 - Sep. 2026**
Meta Reality Lab (**Supervisor**: Dr. Yijing Fu) **Redmond, United States**

- Holographic wave-guide display.

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 **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 **Beijing, China**

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

PUBLICATIONS

- **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*. (Web)
- **Yicheng Zhan**, Xiangjun Gao, Long Quan, and Kaan Akşit, *"Complex-Valued 2D Gaussian Representation for Computer-Generated Holography"* ArXiv Preprint 2025. (In preparation) (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**, Dong-Ha Shin, Seung-Hwan Baek, and Kaan Akşit, *"Complex-Valued Holographic Radiance Fields"* ArXiv Preprint 2025. (In preparation) (Web)
- **Yicheng Zhan**, Qi Sun, Liang Shi, Wojciech Matusik, and Kaan Akşit, *"Configurable Holography: Towards Display and Scene Adaptation"* ArXiv Preprint 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)

SKILLS

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

Interests: Compose Hiphop Music, Sleep, Long-distance Running.