

# Yicheng (Albert) Zhan

E-mail: [yicheng\\_zhan2001@outlook.com](mailto:yicheng_zhan2001@outlook.com) — [Google Scholar](#) — [GitHub](#)

## EDUCATION

**Ph.D. candidate (2nd year)**

**University College London - Computational Light Laboratory**

**Jan. 2024 - Now**  
**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**

**University College London**

**Sep. 2021 - Sep. 2022**  
**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**

**King's College London**

**Sep. 2018 - Sep. 2021**  
**London, United Kingdom**

- **Graduate Result:** First Class Honors
- **Dissertation:** Slackbot Security Evaluation. (**Supervisor:** Prof. Jose Such)

## WORK EXPERIENCE

**Research Intern - Optics Optimization**

**Meta Reality Lab (Supervisor: Dr. Yijing Fu)**

**Mar. 2026 - Sep. 2026**  
**Redmond, United States**

- Holographic wave-guide display.

**Research Intern - Neural Representation**

**Huawei Technologies Research & Development (UK) Ltd (Supervisor: Dr. Arthur Moreau)**

**Apr. 2025 - Sep. 2025**  
**London, United Kingdom**

- 4DGS generation, Human pose estimation.

**Research Assistant - Crime Linkage Analysis**

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

**Jul. 2023 - Jan. 2025**  
**London, United Kingdom**

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

**Research Assistant - Computer Vision**

**University of Leeds**

**Apr. 2023 - Dec. 2023**  
**Leeds, United Kingdom**

- Developed efficient algorithms for fashion clothing segmentation and color extraction in computer vision.

**AI Programmer Intern**

**Microsoft China**

**Jul. 2020 - Sep. 2020**  
**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.