

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)
- 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 - Aug. 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**, Xiangjun Gao, Long Quan, and Kaan Akşit, “Complex-Valued 2D Gaussian Representation for Computer-Generated Holography” 2026. (In preparation)
- **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](#))
- 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.