

Yicheng (Albert) Zhan

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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)

BS 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 - Neural Representation

Huawei Technologies Research & Development 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 (Supervisor: Dr. Raheleh Jafari)

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 (Supervisor: Dr. Wenbin Cai)

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.
- 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.