

Yicheng (Albert) Zhan

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EDUCATION

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| 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) | |
| BS 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

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| Research Intern - Neural Representation | Apr. 2025 - Sep. 2025 |
| Huawei Technologies Research & Development Ltd (Supervisor: Dr. Arthur Moreau) | London, United Kingdom |
| • 4DGS generation, Human pose estimation. | |
| 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 (Supervisor: Dr. Raheleh Jafari) | 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 (Supervisor: Dr. Wenbin Cai) | 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 music (Spotify, NetEase Music).