

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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Developed efficient algorithms for fashion clothing segmentation and color extraction in computer vision.	
AI Programmer Intern Microsoft China	Jul. 2020 - Sep. 2020 Beijing, China
<ul style="list-style-type: none">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.