

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)	
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 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.