Yicheng (Albert) Zhan

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EDUCATION

Ph.D. candidate (3rd 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 - Sep. 2026**
Meta Reality Lab (**Supervisor**: Dr. Yijing Fu)   **Redmond, United States**

- Holographic wave-guide display.

Research Intern - Neural Representation   **Apr. 2025 - Sep. 2025**
Huawei Technologies Research & Development (UK) 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   **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**, 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.