Yicheng (Albert) Zhan

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EDUCATION

Ph.D. candidate (2nd year)	**Jan. 2024 - Now**
University College London - Computational Light Laboratory	**London, United Kingdom**

- **Core Fields**: Computer-Generated Holography, Computer Graphics, Computer Vision, 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
- **Awards**: Received King's Undergraduate Research Fellowship for excellent academic performance.
- **Dissertation**: Slackbot Security Evaluation. (**Supervisor**: Prof. Jose Such)

WORK EXPERIENCE

**Neural Representation	Research Intern**	**Mar. 2025- Sept. 2025**
Huawei Technologies Research & Development Ltd (**Supervisor**: Dr. Arthur Moreau)	**London, United Kingdom**

- 4DGS generation, Human pose estimation.

**Crime Linkage Analysis	Research Assistant**	**July. 2023- Jan. 2025**
Imperial College London (**Supervisor**: Assoc. Prof. Dalal Alrajeh)	**London, United Kingdom**

- Designed advanced machine learning networks to enhance efficiency and accuracy in crime linkage analysis.

**Computer Vision	Research Assistant**	**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 graphics. Utilized advanced network architectures and knowledge distillation for precise and effective segmentation.

**AI Programmer	Intern**	**Jul. 2020- Sep. 2020**
Microsoft China (**Supervisor**: Dr. Wenbin Cai)	**Beijing, China**

- Developed a universal web crawler to scrape daily news, simulating search engine behavior for an online news-feeding application.

PUBLICATIONS

- **Yicheng Zhan**, Dong-Ha Shin, Seung-Hwan Baek, and Kaan Akşit, *"Complex-Valued Holographic Radiance Fields" 2025*. (In preparation) (Web)
- **Yicheng Zhan**, Qi Sun, Liang Shi, Wojciech Matusik, and Kaan Akşit, *"Towards Configurable Learned Holography" 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)
- Zicong Peng, **Yicheng Zhan**, Josef Spjut, and Kaan Akşit, *"Assessing Learned Models for Phase-only Hologram Compression" ACM SIGGRAPH 2025 Posters.* (Web)

SKILLS

Language skills: English (fluent), Chinese (native), Spanish (Intermediate)

Interests: Compose music (Spotify, NetEase Music).