**Yicheng (Albert) Zhan**

Mobile: +44 (0) 7529150752 | E-mail: albertg2001@outlook.com | [Google Scholar](https://scholar.google.com/citations?hl=zh-CN&user=x2ptSYUAAAAJ) | [GitHub](https://github.com/AlberTgarY)

**EDUCATION**

**Ph.D. candidate (1st year) Jan. 2024 - Now**

**University College London - Computational Light Laboratory** **London, United Kingdom**

* **Core Interested Fields**: Computer-Generated Holography, Multi-task Learning, Deep Learning for Physics, Holographic 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
* **Core Courses**: Image Processing, Computer Graphics, Machine Vision, Computational Modelling for Biomedical Imaging, Perception and Interfaces, Virtual Environments.
* **Dissertation Title**: [Urban Semantic Understanding](https://www.linkedin.com/in/yicheng-zhan-810a75232/details/education/1729450150852/single-media-viewer/?profileId=ACoAADottUwBHZVtYIz5Bo_1LQUnBeTdcjJ3c64). (**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](https://www.kcl.ac.uk/students/apply-for-the-kings-undergraduate-research-fellowship-kurf) for excellent academic performance.
* **Core Courses**: Machine Learning, Artificial Intelligence, Data Structure, Database System, Computer System, Software Engineering Development, Software Architecture and Design, Programming Language Design Paradigms
* **Dissertation**: [Slackbot Security Evaluation.](https://www.linkedin.com/in/yicheng-zhan-810a75232/details/education/1729450214410/single-media-viewer/?profileId=ACoAADottUwBHZVtYIz5Bo_1LQUnBeTdcjJ3c64) (**Supervisor**: Prof. Jose Such)

**WORK EXPERIENCE**

**Neural Representation | Research Intern Mar. 2025- Now**

**Huawei Technologies Research & Development Ltd** (**Supervisor**: Dr. Arthur Moreau) **London, United Kingdom**

* Conduct research on 3D Gaussian Splatting.

**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](https://arxiv.org/abs/2506.08350))
* **Yicheng Zhan**, Qi Sun, Liang Shi, Wojciech Matusik, and Kaan Akşit, *“Towards Configurable Learned Holography” 2024*. (In preparation) ([Web](https://arxiv.org/abs/2405.01558))
* **Yicheng Zhan**, Koray Kavaklı1, Hakan Urey, Qi Sun, and Kaan Akşit, *“AutoColor: Learned Light Power Control for Multi-Color Holograms” SPIE VR/AR/MR 2024*. ([Web](https://complightlab.com/autocolor_/))
* [Chuanjun Zheng](https://arxiv.org/search/cs?searchtype=author&query=Zheng,+C),[**Yicheng Zhan**](https://arxiv.org/search/cs?searchtype=author&query=Zhan,+Y), [Liang Shi](https://arxiv.org/search/cs?searchtype=author&query=Shi,+L), [Ozan Cakmakci](https://arxiv.org/search/cs?searchtype=author&query=Cakmakci,+O) and [Kaan Akşit](https://arxiv.org/search/cs?searchtype=author&query=Ak%C5%9Fit,+K), *ACM SIGGRAPH ASIA 2024 Tech Comm “Focal Surface Holographic Light Transport using Learned Spatially Adaptive Convolutions”*. ([Web](https://complightlab.com/publications/focal_surface_light_transport/))

**SKILLS**

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

Interests: Compose music ([Spotify](https://open.spotify.com/album/4KUbkeVXqBvADUDzgEXv4G?si=Sa__rPjuTuSO7YKU93S-VQ), [NetEase Music](https://music.163.com/#/artist?id=34534345)), cs2, indoor climbing.