

Yicheng (Albert) Zhan

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EDUCATION

Ph.D. candidate (1 st year)	Jan. 2024 - Now
University College London - Computational Light Laboratory	London, United Kingdom
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Graduate Result: First Class DistinctionCore Courses: Image Processing, Computer Graphics, Machine Vision, Computational Modelling for Biomedical Imaging, Perception and Interfaces, Virtual Environments.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
<ul style="list-style-type: none">Graduate Result: First Class HonorsAwards: Received King's Undergraduate Research Fellowship 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 ParadigmsDissertation: Slackbot Security Evaluation. (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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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 Kavaklı1, 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, *ACM SIGGRAPH ASIA 2024 Tech Comm* “*Focal Surface Holographic Light Transport using Learned Spatially Adaptive Convolutions*”. ([Web](#))

SKILLS

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

Interests: Compose music ([Spotify](#), [NetEase Music](#)), cs2, indoor climbing.