

# Yicheng (Albert) Zhan

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## EDUCATION

<b>Ph.D. candidate (1<sup>st</sup> year)</b>	<b>Jan. 2024 - Now</b>
<b>University College London - Computational Light Laboratory</b>	<b>London, United Kingdom</b>
<ul style="list-style-type: none"><li><b>Core Interested Fields:</b> Computer-Generated Holography, Multi-task Learning, Deep Learning for Physics, Holographic Displays.</li><li><b>Thesis Title:</b> Advanced Algorithms for Next-Generation Computational Displays. (<b>Mentor:</b> Assoc. Prof. Kaan Akşit)</li></ul>	
<b>M.Sc. in Computer Graphics and Vision Imaging</b>	<b>Sep. 2021-Sep. 2022</b>
<b>University College London</b>	<b>London, United Kingdom</b>
<ul style="list-style-type: none"><li><b>Graduate Result:</b> First Class Distinction</li><li><b>Core Courses:</b> Image Processing, Computer Graphics, Machine Vision, Computational Modelling for Biomedical Imaging, Perception and Interfaces, Virtual Environments.</li><li><b>Dissertation Title:</b> <a href="#">Urban Semantic Understanding</a>. (<b>Supervisor:</b> Assoc. Prof. Melinos Averkiou)</li></ul>	
<b>BS in Software Engineering and Computer Science</b>	<b>Sep. 2018- Sep. 2021</b>
<b>King's College London</b>	<b>London, United Kingdom</b>
<ul style="list-style-type: none"><li><b>Graduate Result:</b> First Class Honors</li><li><b>Awards:</b> Received <a href="#">King's Undergraduate Research Fellowship</a> for excellent academic performance.</li><li><b>Core Courses:</b> Machine Learning, Artificial Intelligence, Data Structure, Database System, Computer System, Software Engineering Development, Software Architecture and Design, Programming Language Design Paradigms</li><li><b>Dissertation:</b> <a href="#">Slackbot Security Evaluation</a>. (<b>Supervisor:</b> Prof. Jose Such)</li></ul>	

## WORK EXPERIENCE

<b>Neural Representation   Research Intern</b>	<b>Mar. 2025- Now</b>
<b>Huawei Technologies Research &amp; Development Ltd (Supervisor: Dr. Songcen Xu)</b>	<b>London, United Kingdom</b>
<ul style="list-style-type: none"><li>Conduct research on 3D Gaussian Splatting.</li></ul>	
<b>Crime Linkage Analysis   Research Assistant</b>	<b>July. 2023- Jan. 2025</b>
<b>Imperial College London (Supervisor: Assoc. Prof. Dalal Alrajeh)</b>	<b>London, United Kingdom</b>
<ul style="list-style-type: none"><li>Designed advanced machine learning networks to enhance efficiency and accuracy in crime linkage analysis.</li></ul>	
<b>Computer Vision   Research Assistant</b>	<b>Apr. 2023- Dec.2023</b>
<b>University of Leeds (Supervisor: Dr. Raheleh Jafari)</b>	<b>Leeds, United Kingdom</b>
<ul style="list-style-type: none"><li>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.</li></ul>	
<b>AI Programmer   Intern</b>	<b>Jul. 2020- Sep. 2020</b>
<b>Microsoft China (Supervisor: Dr. Wenbin Cai)</b>	<b>Beijing, China</b>
<ul style="list-style-type: none"><li>Developed a universal web crawler to scrape daily news, simulating search engine behavior for an online news-feeding application.</li></ul>	

## PUBLICATIONS

- Yicheng Zhan**, Qi Sun, Liang Shi 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.