

# Chen Liu

☎ (+44) 075 3634 6829 | ✉ chen.liu.21@ucl.ac.uk | 🏠 Homepage

## Education

<b>University College London</b> <i>PhD in Computer Graphics</i> Research Topics: (Dynamic) Appearance Modeling, (Inverse) Rendering, Diffusion Models, ...	London, UK 09/23 – Present
<b>University College London</b> <i>MSc in Computer Graphics, Vision, and Imaging</i> Grade: Distinction, Overall 90.25%, Thesis 95%	London, UK 09/21 – 09/22
<b>Beihang University</b> <i>BEng in Computer Science</i> Grade: Major GPA 3.9 / 4.0, Undergraduate Scholarship, Academic Prize	Beijing, China 09/17 – 06/21

## Publications

### Generative Video Bi-flow

[Chen Liu](#), Tobias Ritschel  
*International Conference on Computer Vision (ICCV 2025)*

### Neural Differential Appearance Equations

[Chen Liu](#), Tobias Ritschel  
*ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia 2024)*

### Learning to Learn and Sample BRDFs

[Chen Liu](#), Michael Fischer, Tobias Ritschel  
*Computer Graphics Forum (Proceedings of Eurographics 2023)*

## Employment

<b>Graphics Engine Support for Game Development</b> <i>Graphics Engine Intern</i>	05/20 – 02/21 <i>ByteDance</i>
<ul style="list-style-type: none"><li>◦ Cel-shading Solution: implemented the entire rendering solution for characters in our game</li><li>◦ Shader Coding: created a billboard-based godray shader, a cloudsea texture with Parallax Occlusion Mapping, a semi-translucent crystal material, etc</li><li>◦ UE4 Development: modified UE4 sources to add a custom shading model which makes low-cost but decent translucency possible</li></ul>	

## Services

**Conference Reviewer:** SIGGRAPH ASIA 2025, ICCV 2025, CVPR 2025, PG 2024

**Journal Reviewer:** Computer Graphics Forum (CGF)

**Volunteer:** Eurographics (EG) 2025, Eurographics Symposium on Rendering (EGSR) 2024, GAMES101 Grader 2021

**Teaching Assistant at UCL:** Computer Graphics (COMPO027), Image Processing (COMPO026)

## Awards

<b>The Rabin Ezra Scholarship</b>	2025
<b>UCL PhD Research Studentship</b> (fully funded by Meta)	2023 – 2027
<b>Beihang Excellent Undergraduate Scholarship</b> (5%)	2018, 2019
<b>Beihang Outstanding Academic Performance Prize</b> (2%)	2020