

# Bingxuan Li

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## RESEARCH INTERESTS

My current research lies at the intersection of deep learning and different areas of computer graphics, including neural/physically based rendering and 3d vision. More boardly, I am interested in leveraging advanced machine learning techniques to solve the challenges in building realistic, efficient, and interactive visual computing systems.

## EDUCATION

<b>New York University</b> <i>Doctor of Philosophy in Computer Science</i> <b>Advisor:</b> Prof. Qi Sun	New York City, USA Sep 2024 -
<b>Peking University</b> <i>Bachelor of Science in Computer Science with Honours, Turing Class</i>	Beijing, China Sep 2020 – June 2024

## PUBLICATIONS

- **Image-GS: Content-Adaptive Image Representation via 2D Gaussians**  
ACM SIGGRAPH 2025 [Paper](#)  
Yunxiang Zhang\*, **Bingxuan Li\***, Alexandr Kuznetsov, Akshay Jindal, Kenneth Chen, Anton Sochenov, Anton Kaplanyan, Qi Sun†
  - **Proxy Tracing: Unbiased Reciprocal Estimation for Optimized Sampling in BDPT**  
ACM Transactions on Graphics (ACM SIGGRAPH 2024) [Paper](#) | [Project](#) | [Video](#)  
Fujia Su\*, **Bingxuan Li\***, Qingyang Yin, Yanchen Zhang, Sheng Li†
- \* Equal contributions

## ONGOING RESEARCH

- **Metasurface-Based Neural Depth Imaging** [Paper](#)  
We built an ultra-compact, metasurface-based neural depth imaging system leveraging nano-optics and deep learning to achieve precise depth estimation from monocular polarized imagery.

## AWARDS

<b>New York University</b>	SoE Fellowship (2024)
<b>Peking University</b>	John Hopcroft Scholarship (2023)
<b>Peking University</b>	John Hopcroft Scholarship (2021)
<b>Peking University</b>	Freshman Scholarship (2020)
<b>Chinese Chemistry Olympiad</b>	Silver Metal (2018)

## SKILLS

- **Programming:** Python, C/C++, C#
- **Tools:** PyTorch, CUDA, OpenGL, OptiX
- **Software:** Blender, Unity
- **Language:** Mandarin, English