

Kenny Chen

2nd year PhD Student @ New York University
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Education

New York University

PhD in Computer Science
MS in Computer Science
Supervised by Prof. Qi Sun

2023 – Present
2021 – 2023

University of California, Berkeley

BA in Computer Science
Swim Club @ Berkeley, Innovative Design at Cal (VP of Tech)

2017 – 2021

Publications (*=equal contribution) [\[Google Scholar\]](#)

Conference/Journal Publications (representative highlighted):

2024 [PEA-PODs: Perceptual Evaluation of Algorithms for Power Optimization in XR Displays](#)

SIGGRAPH | Journal Proceedings

🏆 **Best Paper Award (Honorable Mention)**

Kenneth Chen, Thomas Wan, Nathan Matsuda, Ajit Ninan, Alexandre Chapiro*, Qi Sun*

[Exploiting Human Color Discrimination for Memory- and Energy-Efficient Image Encoding in Virtual Reality](#)

ASPLOS

Nisarg Ujjainkar, Ethan Shahan, Kenneth Chen, Budmonde Duinkharjav, Qi Sun, Yuhao Zhu

2023 [Toward Optimized VR/AR Ergonomics: Modeling and Predicting User Neck Muscle Contraction](#)

SIGGRAPH | Conference Proceedings

Yunxiang Zhang, Kenneth Chen, Qi Sun

2022 [Color-Perception-Guided Display Power Reduction for Virtual Reality](#)

SIGGRAPH Asia | Journal Proceedings

Budmonde Duinkharjav*, Kenneth Chen*, Abhishek Tyagi, Jiayi He, Yuhao Zhu, Qi Sun.

Short Publications/Posters:

2023 [Imperceptible Color Modulation for Power Saving in VR/AR](#)

SIGGRAPH | Emerging Technologies

Kenneth Chen, Budmonde Duinkharjav, Nisarg Ujjainkar, Ethan Shahan, Abhishek Tyagi, Jiayi He, Yuhao Zhu, Qi Sun.

[Towards Learning and Generating Audience Motion from Video](#)

Symposium on Computer Animation (SCA) | Poster Abstract

Kenneth Chen, Norman I. Badler.

Research Experience

Meta | Research Scientist Intern

June 2024 – Present

Return internship, mentored by Alexandre Chapiro.

Meta | Research Scientist Intern

June 2023 – January 2024

Mentored by Alexandre Chapiro.

Cesium | Research Scientist Intern

Summer 2022

Supervised by Prof. Norman I. Badler.

Talks

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| <i>invited talk</i> | Perceptually-Inspired Algorithms for Power Optimization in XR Displays High-Beams Seminar University College London (Remote) <i>Invited by Prof. Kaan Akşit</i> | <i>November 2024</i> |
| <i>paper talk</i> | PEAPODs: Perceptual Evaluation of Algorithms for Power Optimization in XR Displays SIGGRAPH 2024 Denver, Colorado | <i>July 2024</i> |
| <i>paper talk</i> | Color-Perception-Guided Display Power Reduction for Virtual Reality SIGGRAPH Asia 2022 Daegu, South Korea | <i>December 2022</i> |

Teaching

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| <i>NYU</i> | Data Visualization (CS-GY 6313) Course Assistant <i>Instructed by Prof. Qi Sun</i> | <i>Spring 2023</i> |
| | Interactive Computer Graphics (CS-GY 6533) Course Assistant <i>Instructed by Prof. Claudio Silva</i> | <i>Fall 2021</i> |
| <i>UC Berkeley</i> | Computer Graphics and Imaging (CS 184) Undergraduate Student Instructor <i>Instructed by Prof. Ren Ng and Prof. Angjoo Kanazawa</i> | <i>Spring 2021</i> |
| | Introduction to Computer Vision and Computational Photography (CS 194-26) Group Tutor & Reader <i>Instructed by Prof. Alexei Efros</i> | <i>Fall 2020</i> |

Peer Review

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| ACM SIGGRAPH | <i>2024</i> |
| ACM SIGGRAPH Asia | <i>2024</i> |
| IEEE TVCG | <i>2024</i> |

Outreach & Volunteering

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| Innovative Design at Cal <i>Vice President of Technology</i> | <i>2020–2021</i> |
| Special Needs Aquatics Program <i>Volunteer Instructor</i> | <i>2018</i> |

Mentorship

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| Changyue (Tina) Su <i>MS Student, NYU CS</i> | <i>2024–Present</i> |
| Henry Kam <i>Undergraduate Student, NYU CS</i> | <i>2022–2023</i> |
| Luigia Than <i>MS Student, NYU CSE</i> | <i>2022–2023</i> |

Awards

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| ACM SIGGRAPH 2024, Best Paper Award (Honorable Mention) | <i>2024</i> |
| NYU, Tandon School of Engineering (SoE) Fellowship | <i>2023</i> |
| NYU, Tandon Graduate Scholarship | <i>2021</i> |
| UC Berkeley, CS184 Computer Graphics Final Project Showcase Winner | <i>2020</i> |