Kenny Chen

2nd year PhD Student @ New York University
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Education

New York University
PhD in Computer Science   *2023 – Present*
MS in Computer Science   *2021 – 2023*
Supervised by Prof. Qi Sun

University of California, Berkeley   *2017 – 2021*
BA in Computer Science
Swim Club @ Berkeley, Innovative Design @ Cal (VP of Tech)

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

Conference/Journal Publications:

2024   **Kenneth Chen**, Thomas Wan, Nathan Matsuda, Ajit Ninan, Alexandre Chapiro*, Qi Sun*. "PEA-PODs: Perceptual Evaluation of Algorithms for Power Optimization in XR Displays", *SIGGRAPH*.
Best Paper Award, Honorable Mention

Nisarg Ujjainkar, Ethan Shahan, **Kenneth Chen**, Budmonde Duinkharjav, Qi Sun, Yuhao Zhu. "Exploiting Human Color Discrimination for Memory- and Energy-Efficient Image Encoding in Virtual Reality", *ASPLOS*

2023   Yunxiang Zhang, **Kenneth Chen**, Qi Sun. "Toward Optimized VR/AR Ergonomics: Modeling and Predicting User Neck Muscle Contraction", *SIGGRAPH*

2022   Budmonde Duinkharjav*, **Kenneth Chen***, Abhishek Tyagi, Jiayi He, Yuhao Zhu, Qi Sun. "Color-Perception-Guided Display Power Reduction for Virtual Reality", *SIGGRAPH Asia*

Short Papers/Posters:

2023   **Kenneth Chen**, Budmonde Duinkharjav, Nisarg Ujjainkar, Ethan Shahan, Abhishek Tyagi, Jiayi He, Yuhao Zhu, Qi Sun. "Imperceptible Color Modulation for Power Saving in VR/AR", *SIGGRAPH E-Tech*

Kenneth Chen, Norman I. Badler. "Towards Learning and Generating Audience Motion from Video", *Symposium on Computer Animation (SCA)*

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.
Resulted in a SIGGRAPH journal paper which won a best paper award, honorable mention.

Cesium | Research Scientist Intern   *Summer 2022*
Supervised by Prof. Norman I. Badler.
Resulted in a poster presentation at SCA.

Talks

invited talk   **Perceptually-Inspired Algorithms for Power Optimization in XR Displays**   *November 2024*
High-Beams Seminar | University College London (Remote)
Invited by Prof. Kaan Akşit

paper talk	**PEAPODs: Perceptual Evaluation of Algorithms for Power Optimization in XR Displays** SIGGRAPH 2024	Denver, Colorado	*July 2024*
paper talk	**Color-Perception-Guided Display Power Reduction for Virtual Reality** SIGGRAPH Asia 2022	Daegu, South Korea	*December 2022*

Teaching

NYU	**Virtual and Augmented Reality (CS-GY 9223)** *Course Assistant* Instructed by Prof. Qi Sun	*Fall 2024*
	Data Visualization (CS-GY 6313) *Course Assistant* Instructed by Prof. Qi Sun	*Spring 2023*
	Interactive Computer Graphics (CS-GY 6533) *Course Assistant* Instructed by Prof. Claudio Silva	*Fall 2021*
UC Berkeley	**Computer Graphics and Imaging (CS 184)** *Undergraduate Student Instructor* Instructed by Prof. Ren Ng and Prof. Angjoo Kanazawa	*Spring 2021*
	Introduction to Computer Vision and Computational Photography (CS 194-26) *Group Tutor & Reader* Instructed by Prof. Alexei Efros	*Fall 2020*

Academic Service

Program Committee
ACM IUI	*2025*

Reviewer
IEEE VR	*2025*
ACM SIGGRAPH	*2024*
ACM SIGGRAPH Asia	*2024*
IEEE TVCG	*2024*

Outreach & Volunteering

Innovative Design at Cal *Vice President of Technology* Led a web development team, provided pro-bono technical services to on-campus orgs.	*2020—2021*
Special Needs Aquatics Program (SNAPkids) *Volunteer Instructor* Volunteer swim lessons/activities with special needs children.	*2018*

Awards

GAANN Fellowship, *US Department of Education*	*2024*
Best Paper Award (Honorable Mention), *ACM SIGGRAPH*	*2024*
School of Engineering (SoE) Fellowship, *NYU*	*2023*
Graduate Scholarship, *NYU*	*2021*
CS184 Computer Graphics Final Project Showcase Winner, *UC Berkeley*	*2020*