Kenny W. Chen

first year PhD student @ NYU

CONTACT

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INTERESTS

Computer Graphics, Human Perception, Psychophysics, Vision Science, Displays, AR/VR

EDUCATION

Sep. '23 - Present	**New York University** | Brooklyn, NY PhD in COMPUTER SCIENCE Advisor: Prof. Qi Sun
Sep. '21 - May '23	**New York University** | Brooklyn, NY MS in COMPUTER SCIENCE Advisor: Prof. Qi Sun
Aug. '17 - May '21	**University of California, Berkeley** | Berkeley, CA BA in COMPUTER SCIENCE Advisor: Prof. Carlo H. Séquin Swim Club at Berkeley, VP of Tech @ Innovative Design Club, The Daily Cal

PUBLICATIONS

*equal contribution

Journal & Conference Papers

[3] **Exploiting Human Color Discrimination for Memory- and Energy-Efficient Image Encoding in Virtual Reality**
N. Ujjainkar, E. Shahan, **K. Chen**, B. Duinkharjav, Q. Sun, Y. Zhu
ASPLOS 2024

[2] **Toward Optimized VR/AR Ergonomics: Modeling and Predicting User Neck Muscle Contraction**
Y. Zhang, **K. Chen**, Q. Sun
SIGGRAPH 2023 \| Conference Proceedings

[1] **Color-Perception-Guided Display Power Reduction for Virtual Reality**
B. Duinkharjav*, **K. Chen***, A. Tyagi, J. He, Y. Zhu, Q. Sun
SIGGRAPH Asia 2022 \| ACM Transactions on Graphics 41(6)

Other Papers

[2] **Towards Learning and Generating Audience Motion from Video**
K. Chen, N. I. Badler
Symposium on Computer Animation (SCA) 2023 \| Poster Abstract

[1] **Imperceptible Color Modulation for Power Saving in VR/AR**
K. Chen, B. Duinkharjav, N. Ujjainkar, E. Shahan, A. Tyagi, J. He, Y. Zhu, Q. Sun
SIGGRAPH 2023 \| Emerging Technologies

WORK EXPERIENCE

June '23 - Present	**Research Scientist Intern** | Meta | Sunnyvale, CA Applied Perception Science team. Mentor: Dr. Alexandre Chapiro
June '22 - Aug. '22	**Research Scientist Intern** | Cesium | Philadelphia, PA Created a dataset of audience videos. Poster abstract published at SCA '23. Advisor: Dr. Norman I. Badler
Sep '21 - Dec. '21	**Software Engineer Intern** | Nvidia | Remote Developed C++ DRIVE Sim plugin in Omniverse.
SU '21	**Software Engineer Intern** | ADI | Remote
SU '20	**Software Engineer Intern** | Confluent | Remote
SU '19	**Software Engineer Intern** | Intuit | Mountain View, CA

TALKS

paper talk	**Color-Perception-Guided Display Power Reduction for Virtual Reality** *SIGGRAPH Asia 2022* | Daegu, South Korea | Dec. 2022

TEACHING

Spring 2023	**Course Assistant**, Data Visualization (CS-GY 6313)
Fall 2021	**Course Assistant**, Interactive Computer Graphics (CS-GY 6533)
Spring 2021	**Undergraduate Student Instructor**, Computer Graphics and Imaging (CS 184)
Fall 2020	**Group Tutor/Reader**, Intro to Computer Vision & Comp. Photography (CS 194-26)

OUTREACH AND ACTIVITIES

2020-2021	**VP of Technology**, Innovative Design at Cal
2018	**Volunteer**, Special Needs Aquatics Program

AWARDS

2023	**NYU Tandon School of Engineering PhD Fellowship**
2021	**NYU Tandon Graduate Scholarship**
2020	**UC Berkeley Computer Graphics Final Project**, Showcase Winner
2019	**UC Berkeley Probability Theory Catan AI Competition**, 1st Place