

Yunxiang Zhang

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RESEARCH INTERESTS

My current research revolves around computer graphics, virtual reality, and human-computer interaction.

EDUCATION

New York University

Doctor of Philosophy in Computer Science and Engineering

Advisor: Prof. Qi Sun

New York City, USA

Sep 2022 – Dec 2025 (expected)

The Chinese University of Hong Kong

Master of Philosophy in Information Engineering

Hong Kong SAR, China

Aug 2020 – Aug 2022

Shanghai Jiao Tong University

Master of Engineering in Electronics and Communication Engineering

Shanghai, China

Sep 2017 – Mar 2020

École Polytechnique

Diplôme d'Ingénieur in Computer Science (double-degree program between SJTU and EP)

Palaiseau, France

Apr 2016 – Aug 2018

Shanghai Jiao Tong University

Bachelor of Engineering in Information Engineering

Shanghai, China

Sep 2013 – Aug 2017

RESEARCH EXPERIENCE

Research Intern, Intel Graphics Research

Mentors: Dr. Alexandr Kuznetsov and Dr. Akshay Jindal

Bellevue, USA

May 2023 - Aug 2023

Research Intern, Vector Institute

Mentor: Prof. Nicolas Papernot

Toronto, Canada

Mar 2020 – Jun 2020

Research Intern, LTCI Télécom Paris

Mentors: Prof. Samy Blusseau, Prof. Santiago Velasco-Forero, Prof. Isabelle Bloch, and Prof. Jesús Angulo

Paris, France

Apr 2018 - Aug 2018

PUBLICATIONS

- **Accelerating Saccadic Response through Spatial and Temporal Cross-Modal Misalignments**
ACM SIGGRAPH 2024 [Paper](#)
Daniel Jiménez Navarro, Xi Peng, **Yunxiang Zhang**, Karol Myszkowski, Hans-Peter Seidel, Qi Sun, Ana Serrano
- **Measuring and Predicting Multisensory Reaction Latency: A Probabilistic Model for Visual-Auditory Integration**
IEEE Transactions on Visualization and Computer Graphics (TVCG 2024)
Xi Peng, **Yunxiang Zhang**, Daniel Jiménez Navarro, Ana Serrano, Karol Myszkowski, Qi Sun
- **Toward Optimized VR/AR Ergonomics: Modeling and Predicting User Neck Muscle Contraction**
ACM SIGGRAPH 2023 [Paper](#)
Yunxiang Zhang, Kenneth Chen, Qi Sun
- **Force-Aware Interface via Electromyography for Natural VR/AR Interaction**
ACM Transactions on Graphics (SIGGRAPH Asia 2022) [Paper](#)
Yunxiang Zhang, Benjamin Liang, Boyuan Chen, Paul M. Torrens, S. Farokh Atashzar, Dahua Lin, Qi Sun
* Equal contributions, authors ordered alphabetically

AWARDS

New York University

Deborah Rosenthal MD Award (2024)

New York University

SoE Fellowship (2022 – 2023)

The Chinese University of Hong Kong

Postgraduate Scholarship (2020 – 2022)

Shanghai Jiao Tong University

SPEIT Academic Excellence Scholarship (2015 – 2016)

Shanghai Jiao Tong University

Ardian Scholarship (2014 – 2015)

ACADEMIC SERVICES

Conference Reviewer: SIGGRAPH, SIGGRAPH Asia, TVCG, AAAI, IEEE VR, ISMAR

TEACHING EXPERIENCE

Teaching Assistant, Virtual and Augmented Reality (CS-GY 9223), New York University 2022 Fall
Teaching Assistant, Final Year Project (IERG 4998/4999), The Chinese University of Hong Kong 2020 – 2022

SKILLS

- **Programming:** Python (primary), C#, C/C++
- **Tools:** PyTorch, TensorFlow, OpenGL, Libigl
- **Software:** Blender, Unity, Matlab, MeshLab
- **Language:** Mandarin, English, French