

# ZIYANG CHEN

Ann Arbor, MI ◊ [czyang@umich.edu](mailto:czyang@umich.edu) ◊ [Webpage](#)

## EDUCATION

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- University of Michigan, Ann Arbor** Jan. 2022 -  
Ph.D. candidate in Electrical & Computer Engineering | Advisor: *Andrew Owens*
- University of Michigan, Ann Arbor** Sept. 2019 - May 2021  
Master of Science in Engineering, Computer Vision  
Overall GPA: **4.0/4.0** | Advisor: *Andrew Owens*
- Shanghai Jiao Tong University, UM-SJTU JI** Sept. 2015 - Aug. 2019  
Bachelor of Science in Engineering  
Major: Electrical & Computer Engineering | Minor: Entrepreneurship  
GPA: **3.60/4.0** with honors & *Graduated magna cum laude*

## PUBLICATIONS

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- *Ziyang Chen, Israel D. Gebru, Christian Richardt, Anurag Kumar, William Laney, Andrew Owens, and Alexander Richard.* “Real Acoustic Fields: An Audio-Visual Room Acoustics Dataset and Benchmark”. (In submission)
- *Fengyu Yang\*, Chao Feng\*, Ziyang Chen\*, Hyoungeob Park, Daniel Wang, Yiming Dou, Ziyao Zeng, Xien Chen, Rit Gangopadhyay, Andrew Owens, and Alex Wong.* “Binding Touch to Everything: Learning Unified Multimodal Tactile Representations”. (In submission)
- *Chao Feng, Ziyang Chen, Aleksander Holynski, Alexei A Efros, and Andrew Owens.* “GPS-to-3D: Lifting Tourist Photos to 3D Using 2D Diffusion”. (In submission)
- *Ziyang Chen, Shengyi Qian and Andrew Owens.* “Sound Localization from Motion: Jointly Learning Sound Direction and Camera Rotation”. (ICCV 2023) ([Project site](#))
- *Yuexi Du, Ziyang Chen, Justin Salamon, Bryan Russell, and Andrew Owens.* “Conditional Generation of Audio from Video via Foley Analogies”. (CVPR 2023)([Project site](#))
- *Chao Feng, Ziyang Chen and Andrew Owens.* “Self-Supervised Video Forensics by Audio-Visual Anomaly Detection”. (CVPR 2023, highlight) ([Project site](#))
- *Ziyang Chen, David F. Fouhey and Andrew Owens.* “Sound Localization by Self-Supervised Time Delay Estimation”. (ECCV 2022) ([Project site](#))
- *Xixi Hu\*, Ziyang Chen\* and Andrew Owens.* “Mix and Localize: Localizing Sound Sources in Mixtures”. (CVPR 2022) ([Project site](#))
- *Ziyang Chen\*, Xixi Hu\* and Andrew Owens.* “Structure from Silence: Learning Scene Structure from Ambient Sound”. (CoRL 2021, Oral) ([Project site](#))

## WORK EXPERIENCE

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- Research Scientist Intern, Meta Reality Lab, Pittsburgh** May. 2023 - Nov. 2023
- Topics: neural acoustic fields
  - Supervisor: Israel D. Gebru, Christian Richardt, Alexander Richard
- Research Assistant, University of Michigan, Ann Arbor** Jan. 2020 - Present
- Topics: multi-modal learning, self-supervised learning
- Teaching Assistant, Shanghai Jiao Tong University** Sept. 2018 - Aug. 2019
- Courses: *Digital Integrated Circuits, Electronic Circuits*
  - Conducted experiments, held office hours and taught recitation classes every week
- Research Engineer Intern, FreeSense Image Inc., Shanghai** Mar. 2018 - May 2018

- Implemented an auxiliary system for a project of Detection of Car LCD Screen and applied it into industrial production lines
- Adopted state-of-the-art recognition DNNs to improve the accuracy on defect detection tasks

## SERVICE

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### Reviewer

- WACV 2023, CVPR 2023, ICCV 2023

## AWARDS & SCHOLARSHIPS

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- **Lums Fellowship**, *University of Michigan, Ann Arbor* 2019-2021
- **Outstanding Graduate - Class of 2019**, *Shanghai Jiao Tong University* 2019
- **Academic Excellence Scholarship**, *Shanghai Jiao Tong University* 2016-2018
- **Dean's List**, *Shanghai Jiao Tong University, SJTU-UM JI* 2015-2018