ANG CAO

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2260 Hayward St, Ann Arbor, MI 48109

RESEARCH INTERESTS

I am broadly interested in 3D vision. My current work is mainly about learning 3D models from 2D images using differentiable rendering and novel view synthesis for dynamic/static scenes.

EDUCATION

University of Michigan, Ann Arbor *2020-present*
Ph.D., Computer Science and Engineering GPA 4.0/4.0
Advisor: Prof. *Justin Johnson*
University of Michigan, Ann Arbor *2018-2020*
Master of Science, Electrical and Computer Engineering GPA 4.0/4.0
Signal & Image Processing and Machine Learning track (SIPML)
Wuhan University *2014-2018*
Bachelor of Science in Electrical Engineering GPA 3.9/4.0

PUBLICATIONS

5. **"Text2room:Text2Room: Extracting Textured 3D Meshes from 2D Text-to-Image Models"**
Lukas Höllein*, **Ang Cao***, Andrew Owens, Justin Johnson, Matthias Nießner
In submission, 2023
4. **"HexPlane: A Fast Representation for Dynamic Scenes"**
Ang Cao, Justin Johnson
Computer Vision and Pattern Recognition Conference, *CVPR 2023*
3. **"FWD: Real-time Novel View Synthesis with Forward Warping and Depth"**
Ang Cao, Chris Rockwell, Justin Johnson
Computer Vision and Pattern Recognition Conference, *CVPR 2022*
2. **"Inverting and Understanding Object Detector"**
Ang Cao, Justin Johnson
Tech Report 2021
1. **"Unified Signal Compression Using Generative Adversarial Networks"**
Bowen Liu*, **Ang Cao***, Hun-Seok Kim
45th International Conference on Acoustics, Speech, and Signal Processing, *ICASSP 2020*, **oral**.

AWARDS AND RECOGNITIONS

Rollin M. Gerstacker Foundation Fellowships, University of Michigan 2020
China National Scholarship, award for top 2% Chinese undergraduate 2016, 2017
Outstanding Graduate of Wuhan University 2018
Meritorious Winner of American Mathematical Contest in Modeling 2017
National Undergraduate Innovation Foundation by Chinese Ministry of Education 2016

ACTIVITIES

AI4ALL, University of Michigan 2021
Summer program aimed at providing an entry point to artificial intelligence, computer science and engineering to high school students from under-represented backgrounds.

REVIEWER

CVPR 2023, ICLR 2023, CVPR 2022, ICCV 2022.