

Haotian Liu

CONTACT INFORMATION

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RESEARCH INTERESTS

I am generally interested in **computer vision** and **machine learning**, especially efficient algorithms on visual perception, understanding and generation. And I focus on building machines that efficiently understand the visual world the same way as humans do.

EDUCATION

University of Wisconsin–Madison, Madison, WI, USA

Ph.D. Student, Computer Science, 2021-present

- Advisor: Prof. Yong Jae Lee

University of California, Davis, Davis, CA, USA

Ph.D. Student, Computer Science (transferred), 2019-2021

- Advisor: Prof. Yong Jae Lee

Zhejiang University, Chu Kochen Honors College, Zhejiang, China

Bachelor of Computer Science and Technology (Honors), June, 2019

Dual Degree of English Language and Literature, June, 2019

- Advisors: Prof. Xiaogang Jin and Prof. Fei Wu
- GPA: **3.94/4**; Ranking: **Top 5%**

PUBLICATIONS

Haotian Liu*, Rafael A. Rivera Soto*, Fanyi Xiao, and Yong Jae Lee. YolactEdge: Real-time Instance Segmentation on the Edge. In *Proceedings of the International Conference on Robotics and Automation (ICRA)*, Xi'an, China, June 2021. (*equal contribution)

Fanyi Xiao, **Haotian Liu**, and Yong Jae Lee. Identity from here, Pose from there: Self-supervised Disentanglement and Generation of Objects using Unlabeled Videos. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Seoul, Korea, November 2019.

Yimeng Chen, **Haotian Liu**, and Lei Shi. Operation strategy of public building: Implications from trade-off between carbon emission and occupant satisfaction. *Journal of Cleaner Production (JCLP)* Vol. 205, pp. 629-644, December 2018.

HONORS AND AWARDS

- Zhejiang University, Outstanding Graduates (with honors), 2019
- UC Davis, Outstanding Research Performance, 2018
- Zhejiang University, Student Award for Research and Innovation, 2018
- Zhejiang University, First-Class Scholarship for Outstanding Students, 2016
- Zhejiang University, Scholarship for Outstanding Merits for 3 successive years, 2016-2018

EXPERIENCE

Cruise LLC, San Francisco, CA, USA **March, 2021 - November, 2021**

Research Intern

Research project: an efficient transformer backbone to improve point cloud understanding.

DawnLight Technologies Inc., Palo Alto, CA, USA **June, 2020 - November, 2020**

Research Intern

Research project: an approach of generating realistic human body animation in the scene.

PROFESSIONAL
ACTIVITIES

- Reviewer, Computer Vision and Pattern Recognition (CVPR), 2021-22
- Reviewer, International Conference on Computer Vision (ICCV), 2021
- Teaching Assistant, ECS 174 Computer Vision, Spring 2020

SKILLS

Programming: Python, C/C++, MATLAB, JavaScript, Swift
Misc: PyTorch, Tensorflow, OpenGL, L^AT_EX, Markdown
OS: LINUX, macOS, Windows