

Haotian Liu

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EDUCATION

Chu Kochen Honors College, Zhejiang University

September 2015 – June 2019

Bachelor of Computer Science and Technology (Honors)

- Dual Degree of English Language and Literature
- *Research Intern* at [CAD&CG State Key Laboratory](#)
- Overall GPA: **3.94/4**
- Ranking: **Top 5%** among the 208 students
- Advisor: [Prof. Xiaogang Jin](#) & [Prof. Fei Wu](#)

University of California, Davis (UC Davis)

July – October 2018

ML&AI Lab, [GREAT](#) Program

- *Undergraduate Visiting Research Intern*
- Advisor: [Prof. Yong Jae Lee](#)

PUBLICATIONS

- Fanyi Xiao, **Haotian Liu**, and Yong Jae Lee. “Identity from here, Pose from there: Self-supervised Disentanglement and Generation of Objects using Unlabeled Videos.”
Accepted to ICCV 2019.
- Yimeng Chen, **Haotian Liu**, and Lei Shi. “Operation strategy of public building: Implications from trade-off between carbon emission and occupant satisfaction.” [\[sciencedirect\]](#)
Journal of Cleaner Production 205 (2018): 629-644.

RESEARCH EXPERIENCE & SELECTED PROJECTS

Design2Code with [Alibaba](#)

August 2018 – June 2019

Research Intern, Undergraduate Thesis

Hangzhou, China

- Automatically generate layout code for a precise reproduction of massive UI designs of [Alibaba](#) products
- Improve the generalization ability of the current state-of-the-art on real and complex settings
- Assessed as **Outstanding Undergraduate Thesis** of Zhejiang University

UC Davis [GREAT](#) Summer Research Program

July – October 2018

Research Intern, Outstanding Research Performance Award, Grade A⁺

Davis, CA

- The model learns to disentangle the identity and pose of two images, using unlabeled videos; generates an image composed of the identity of the first image, and the pose of the second one
- Built up a new dataset rendered from ShapeNet for training disentangled features
- Experimented and optimized the model on cross-category and cross-domain settings to examine and enforce disentanglement
- Proposed and implemented a semantically realistic image blending system
- Paper accepted to ICCV 2019.

SRSF: Scalable Recon-System with High-Fidelity Textures
Project Leader

September 2017 – Present
Hangzhou, China

- Proposed an optimized form of rigid correction correcting both rigid and non-rigid errors
- Accelerated and made the texture mapping scalable while benefiting from the preciseness and fidelity of current state-of-the-art
- CPU version has a **5x** speed boost; currently working on a GPU version for more improvements
- Assessed as **Outstanding** Project (**91/100**) of State-Level Research Innovation Program

Xiao-I Robot, with State Key Lab of CAD & CG (ZJU)
Research Intern

July – September 2017
Hangzhou, China

- Built up **AI+ Service Robot** frontends for commercial banks
- Implemented skeletal animation of the robot, optimized and accelerated the rendering pipeline

SELECTED HONORS AND AWARDS

- **Outstanding Graduates** of Zhejiang University (2019)
- **Outstanding Undergraduate Thesis** of Zhejiang University (2019)
- **Outstanding Research Performance** in UC Davis GREAT Program (2018)
- **First-Class Scholarship** for Outstanding Students (2015-2016)
- Student Award for **Research and Innovation** (2017-2018)
- Outstanding **Student Leader** Awards (2016-2017) (2017-2018)
- Scholarship for Outstanding Merits (2015-2016) (2016-2017) (2017-2018)
- Excellent Social Work Scholarship (2015-2016) (2016-2017) (2017-2018)

LEADERSHIP ACTIVITIES

Qiushichao Student Union of Zhejiang University

September 2015 – June 2018

- (2017-2018) **President**, presided over and coordinated the direction of the organization
- (2016-2017) **Vice Director** of Tech. Center, directed over several products (over 500,000 requests per day at peak) and maintained 6 servers (with about 100 KVM, LXC, and Docker machines).
- (2015-2016) **Engineer**, developed **QSC Mobile API** and **QSC Exam** (serves 6000+ concurrent requests, in use for official)

ADDITIONAL INFORMATION

Research Interests: Computer Vision, Machine Learning, Computer Graphics

Programming Languages: Python, C/C++, MATLAB, JavaScript, Swift, Verilog, VHDL, Node.js, Markdown, \LaTeX , PHP, HTML/CSS

Toolkits and Frameworks: CUDA, OpenCL, OpenGL, Metal

Deep Learning Frameworks: PyTorch (preferred), Tensorflow

ENGLISH PROFICIENCY

- **TOEFL: 116** (Reading **30**, Listening **29**, Speaking **27**, Writing **30**)
- **TEM-4: Excellent** (English proficiency test designed for English-majored students in China)

If you would like to know more about my research experiences and projects, please visit my [homepage](#). Thank you!