

Han Lu

Shanghai Jiao Tong University

No 800, Dongchuan Road Minhang District, Shanghai

✉ sjtu_luhan@sjtu.edu.cn

🌐 github.com/luhan1999

☎ +86 180 1859 6690

EDUCATION

ACM Honors Class, Shanghai Jiao Tong University

Bachelor of Computer Science at Zhiyuan College

Zhiyuan College is for training outstanding students in the basic sciences

ACM Honors Class is an elite CS program for top 5% talented students.

○ GPA: 3.79/4.3 Score: 88.73/100 Ranking: 10/46

China, Shanghai

Sep 2017 – Present

RESEARCH EXPERIENCE

Research Internship

June 2019 - Present

○ **Machine Vision and Intelligence Group, SJTU**

- Advised by Cewu Lu and finish the course cs231n of stanford online

- Do some works about Human-Object Interactions (HOI)

- Modify and utilize 3D construction models like SMPL and SMPL-X

- Make contribution to the paper Detailed 2D-3D Joint Representation for Human-Object Interaction for CVPR 2020

Multi-task Driven Network for Indoor Layering Prediction with Human-in-loop

course project

○ I and my team members implemented a human-in-loop Multi-task Driven Network to give layering of images' spatial structure. The paper is accepted by Computer and Technology Applications (ICCTA) 2020.

Fine-grained image categorization

course project

○ I and my team members did research in Fine-grained image categorization and gave a presentation on the subject. The Graph Convolutional Network (GCN) is also used by us to do some pilot experiments.

AWARDS AND COMPETITIONS

Zhiyuan Honorary Scholarship

2018&2019

top 5% of 17,000 students in SJTU

2019 Mathematical Contest In Modeling

2019

Meritorious winner

The 33rd China National Olympiad in Informatics (NOI)

2016

Silver Award

The 10th Asia-Pacific Informatics Olympiad (APIO)

2016

Gold Award

PROJECTS

MX-Compiler

(Score 95/100) course project

○ A simple compiler of MX* language (a simplified language like Java) with NSAM assembly output. I implemented several optimization and the performance was close to GCC -O1 in certain test sets.

Tiny Tensorflow

(Score 97/100) course project

○ A simplified Tensorflow for CNN network with auto diff and back propagation. Its backend is built by c++ in order to improve its performance.

RISC-V CPU

course project

○ Designed and implemented a RISC-V CPU with 5-stage pipeline implemented in Verilog HDL.

OTHER EXPERIENCE

Teaching Assistant

2018&2019

- **CS152: C++ Programming (B)**

- Give lecture about some basic algorithms and data structures.
- Prepare the last and hardest algorithm problems for four online examination

Invited Topic Presenter

2018&2019

- **CS358: Data Structures:** Give algorithms and data structures lectures
- Mathematical Contest In Modeling training camp in SJTU for 200+ students
- China University modeling competition training camp in SJTU for 200+ students

Publications

- Detailed 2D-3D Joint Representation for Human-Object Interaction
Yong-Lu Li, Xinpeng Liu, **Han Lu**, Shiyi Wang, Junqi Liu, Jiefeng Li, Cewu Lu
CVPR 2020.