

wz.wzh@sjtu.edu.cn | ★zhanghaowu.me | ☐ Michaelvll | Szhanghao.wu@outlook.com

Education

Shanghai Jiao Tong University(SJTU)

B.S. IN COMPUTER SCIENCE

• A student of ACM Class, an elite CS program for top 5% talented students.

- GPA: 92.07 / 100, Rank: 2 / 38.
- · Research interests: Computer Architecture and Deep Learning.

Research Experience ___

Massachusetts Institute of Technology, USA

Jul. 2019 - Jan. 2020 (expected)

RESEARCH ASSISTANT, SUPERVISED BY PROF. SONG HAN

· Focusing on privacy preserving and efficient machine learning.

SpeechLab

Shanghai Jiao Tong University, China Jul. 2018 - PRESENT

Undergraduate Researcher, advised by Prof. Kai Yu · Focusing on Rich Audio Ánalysis (RAA), analysis and classification of non-text information within human speech.

- Designed a VAE data augmentation to improve the robustness of speaker verification. (Oral paper, Interspeech 2019)
- Implemented a Deep Canonical Correlation Analysis (DCCA) to combine i-vector and x-vector, which are two kinds of highly complementary embedding of speaker.

Publications

Data Augmentation using Variational Autoencoder for Embedding based Speaker Verification

ZHANGHAO WU, SHUAI WANG, YANMIN QIAN, KAI YU

Sep. 2019

Shanghai, China

Sep. 2016 - Jun. 2020 (expected)

Interspeech 2019 (oral presentation)

Teaching Experience _

Compiler TEACHING ASSISTANT Shanghai Jiao Tong University

Spring 2019

C++ Programming(CS152)

TEACHING ASSISTANT

Shanghai Jiao Tong University Spring 2018

Honors & Awards

First place, Visual Wake Words challenge

Third place, Low Power Image Recognition Competition track 1

Outstanding Winner, Mathematical Contest in Modeling (Top 0.5%, international)

National Scholarship

Fan Hsu-Chi Chancellor's Scholarship, (Top 0.1%)

Merit Student

vww

Zhiyuan Honorary Scholarship

CVPR'19, 2019 CVPR'19, 2019

COMAP, 2017

Ministry of Education of P.R. China, 2018

Shanghai Jiao Tong University, 2017

Shanghai Jiao Tong University, 2017

Shanghai Jiao Tong University, 2016 - 2018

Selected Projects

Omit-han-lab/VWW

Won first place in the CVPR'19 Visual Wake Words challenge (TF-lite track). DeepCCA Dec. 2018

○Michaelvll/DeepCCA

An implementation of Deep Canonical Correlation Analysis in pytorch

MW Compiler Jun. 2018

• Designed a compiler implemented in Java from scratch, translating Mx*, a Java-and-C-like language, program into x64-nasm code.

• Implemented optimizations for the compiler, faster than gcc O1 on test set, 98/100.

RISCV CPU

⊙Michaelvll/RISCV CPU

 Designed and implemented a FPGA-supported RISC-V CPU with 5-stage pipeline implemented in Verilog HDL. And becomes the only two implementation that support FPGA in class, 100/100.

Chinese Land Battle Chess AI

Nov. 2016

May. 2019

Michaelvll/Chinese-Land-Battle-Chess-Al Designed and Implemented a rule-based AI for Chinese Land Battle Chess, a course project for C++ Programming 2016(CS152), SJTU.