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Education

Shanghai Jiao Tong University(SJTU)

Shanghai, China

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)

• Interested in machine learning, including natural language processing, speech and efficient AI.

Sep. 2016 - Jun. 2020 (expected)

Research Experience

RESEARCH ASSISTANT, SUPERVISED BY PROF. SONG HAN

Massachusetts Institute of Technology, USA

Jul. 2019 - Jan. 2020 (expected)

· Focusing on privacy preserving and efficient machine learning.

• Currently working on efficient natural language processing, especially efficient language model.

SpeechLab

Shanghai Jiao Tong University, China Jul. 2018 - PRESENT

UNDERGRADUATE RESEARCHER, ADVISED BY PROF. KAI YU · Focused 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

Interspeech 2019 (oral presentation)

Teaching Experience

Compiler (MS208), Teaching Assistant C++ Programming (CS152), Teaching Assistant Shanqhai Jiao Tong University, Spring 2019 Shanghai Jiao Tong University, Spring 2018

Honors & Awards

First place, CVPR'19 Visual Wake Words challenge Third place, CVPR'19 Low Power Image Recognition Competition track 1 Outstanding Winner, Mathematical Contest in Modeling (Top 0.5%, international) National Scholarship, (Top 1%)

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

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 Shanqhai Jiao Tong University**, 2016 - 2018**

Selected Projects_

VWW Omit-han-lab/VWW

May. 2019

Won first place in the CVPR'19 Visual Wake Words challenge.

DeepCCA Michaelvll/DeepCCA

Dec. 2018

An implementation of Deep Canonical Correlation Analysis in pytorch

MW Compiler OMichaelvll/MWCompiler

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 OMichaelvll/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 OMichaelvll/Chinese-Land-Battle-Chess-AI

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