

Peiyao Sheng

Junior Undergraduate, Computer Science

ACM Class, Zhiyuan College
Shanghai Jiao Tong University
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Education

2015-Present	B.S., Computer Science and Technology		
Program	ACM Honored Class (a pilot computer science class in China) Zhiyuan College, Shanghai Jiao Tong University (SJTU), China		
1st Year	GPA: 3.71	Rank: 9/31	Integrated Rank: 6/31
2nd Year	GPA: 3.90	Rank: 5/25	Integrated Rank: 2/25
Core Courses	PPCA: 96/100 (Principle and Practice of Computer Algorithms)		

Research Experience

2017-Present	SpeechLab at Shanghai Jiao Tong University		
Advisor	Dr. Kai Yu		
My Work	Noise Data Augmentation for Speaker Recognition Using Conditional Generative Adversarial Networks Recently, I have explored the theory of deep learning, studied the basis of Automatic speech recognition and practiced a set of complete frame recognition framework. After a systematic analysis and experiment, I designed a kind of conditional Generative Adversarial Networks for data augmentation in noise-robust speaker recognition. I also participate in the translation group of Reinforce Learning introduction, to study Reinforce Learning and related research progress.		

Honors and Awards

USA 2017	Meritorious Winner First Prize in Interdisciplinary Contest In Modeling, 2017, Top 10%
2015-2016	Academic Excellence Scholarship (A-Class) Scholarship in Shanghai Jiao Tong University, Top 5%

Teaching Experience

	Teaching Assistant
Summer 2017	MS106, Principle and Practice of Computer Algorithms
Spring 2017	MS105, Data Structures
Fall 2016	CS122, C++ Programming
Contributions	Correct Students' homework Give lectures on discussion class Design questions for periodic exam and weekly homework

Skills

Language	C++, Python, Java, Matlab, HTML, LaTeX, Verilog HDL
Tool	Photoshop, Final Cut Pro

Course Projects

Fall 2017 **Semantic Alignment for Hierarchical Image Captioning**

A group research paper about Image Captioning, the coursework of *Computer Vision*

Spring 2017 **Simpiler: Modern Compiler Implementation, Java**

A toy compiler for simplified C language, 14,000+ lines of code.

Spring 2017 **SimpleMIPS: A Prototype of 5-stages Pipelined MIPS Microprocessor, Verilog HDL**

A simple prototype of 32-bits, Harvard structural and 5-stages pipelined MIPS microprocessor, the coursework of *MS108, Computer System-I*.

Spring 2016 **Your Simulated Formularized Life-game, C++**

A visual simulator of a specialized kind of cellular automaton, a group project of the course *Introduction of Physics*.

Fall 2015 **Lisperarian, C++**

A Library System supporting multiple OS platforms, a group project of the course *C++ Programming*.

Activities

2016-2017 **Captain** of Zhiyuan College Debate Team

Contributions We won the Champion of *Confederations Cup* (the highest level of debate in Shanghai Jiao Tong University).

2016-2017 **Vice-Minister** of Propaganda Department in Zhiyuan College

Contributions I design video, poster and daily propaganda for Zhiyuan College. During the summer time, I participated in making our own movie and do the post-production independently.