

# SIYUAN FENG

UNDERGRADUATE STUDENT, COMPUTER SCIENCE

☎ +86 13615719259 | @ [Hzfengsy@sjtu.edu.cn](mailto:Hzfengsy@sjtu.edu.cn) | [github.com/Hzfengsy](https://github.com/Hzfengsy)

---

## Education

**B.Sc. in Computer Science** - Shanghai Jiao Tong University

Sept 2016 - Present

- Member of [ACM Honors Class](#), which is an elite CS program for top 5% talented students.

## Research Experience

**APEX Data & Knowledge Management Lab** - Shanghai Jiao Tong University

July 2018 - Present

- Undergraduate Researcher, advised by [Prof. Weinan Zhang](#) and [Prof. Yong Yu](#).
- Research interests: Deep Reinforcement Learning and Natural Language Generation (NLG).

## Teaching

**MS106: Principle and Practice of Computer Algorithms** - SJTU

Summer 2018

- [https://acm.sjtu.edu.cn/wiki/PPCA\\_2018](https://acm.sjtu.edu.cn/wiki/PPCA_2018)
- *Student Instructor*
- Led the TA team (was one of the three lead TAs).
- Maintained the Online Judge System for assignments and exams. And built a new judge core for it.
- Instructed a group of students to implement a simplified Deep Learning System with some simple APIs which is same as those in TensorFlow.

**CS147: Data Structures** - SJTU

Spring 2018

- [https://acm.sjtu.edu.cn/wiki/Data\\_Structures\\_2018](https://acm.sjtu.edu.cn/wiki/Data_Structures_2018)
- *Teaching Assistant*
- Led the TA team (was one of the three lead TAs).
- Prepared the course project (a railway ticket management system) with other TAs.
- Prepared the course project (STLite in C++).

**CS151: C++ Programming (A)** - SJTU

Fall 2017

- [https://acm.sjtu.edu.cn/wiki/Programming\\_2017](https://acm.sjtu.edu.cn/wiki/Programming_2017)
- *Teaching Assistant*
- Gave a lecture on C++ multithreading programming.
- Prepared the course project (Quoridor Game) with other TAs.
- Prepared the course project (OOP programming in C++) with other TAs.

## Honors and Awards

**Zhiyuan Leadership Scholarship** - Shanghai Jiao Tong University

2017

**Zhiyuan Honorary Scholarship** - Shanghai Jiao Tong University

2016 & 2017


**The 9th Asia and Pacific Informatics Olympiad (APIO)** - Bronze Medal

May 2015

## Selected Projects

### M-Compiler - A Compiler for Mx\* Language

Spring 2018

-  <https://github.com/Hzfengsy/M-Compiler>
- It is a compiler implemented in Java from scratch, and the source language is Mx\*, which is a C-and-Java-like language.
- Implemented many optimizations for the compiler, which got it faster than gcc O1.
- Final score: 95 / 100.


### RISC-V - A RISC-V CPU on FPGA

Fall 2017

-  <https://github.com/Hzfengsy/RISC-V>
- Designed and implemented a FPGA-supported RISC-V CPU with 5-stage pipeline implemented in Verilog HDL.


### TitanFlow - A Simple Deep Learning System

Summer 2017

-  <https://github.com/Hzfengsy/titanflow>
- Designed and implemented a simple Deep Learning System with some same APIs as TensorFlow.

### AI of Chinese Battle Chess - A Simple AI

Fall 2016

-  <https://github.com/Hzfengsy/AI-of-Chinese-Battle-Chess>
- Course project of Programming 2016 (CS122), ACM Class, SJTU.
- Project Rank: 3 / 48.