# Shun ZHANG

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## EDUCATION

**Fudan University**                                                                                                  **Shanghai**

*B.S. in Mathematics and Applied Mathematics (Data Science & Technology)*                          2015.09–2019.06

- Cumulative GPA: 3.51/4.0; Rank: 12/41

## WORK EXPERIENCES

**Baidu Inc.**                                                                                                            **Shanghai**

*Intern, AI Platform Department*                                                                              2018.10–Present

- Investigate models like SimGAN, SRGAN and Neural Style Transfer Algorithm for Image Augmentation
- Investigate models like MFNet (3D) for Video Classification and transfer to small datasets with unbalanced data

**Shangjin Investment Company**                                                                               **Shanghai**

*Intern, Machine Learning Department*                                                                       2018.02–2018.06

- Researched on potential Reinforcement Learning based models for auto-investment system
- Built an auxiliary Tree-regularization module to train and visualize a classification network

## RESEARCH & PROJECTS

**Research on Medical Image Augmentation with GAN-based Models**                        **Rutgers University**

*Main Contributor*                                                                                            2018.07–2018.08

- Implemented high resolution image generation framework from lower resolution image using DCGAN and SRGAN
- Derived a '3D-GAN' model based on SRGAN structure and executed to obtain preliminary results

**Research on Parsimonious Training of Convolutional Neural Networks**               **Fudan University**

*Main Contributor*                                                                                            2018.02–2018.10

- Customized an Optimizer class in PyTorch in order to do specified back-propagation of Split LBI
- Conducted full experiments on LeNet-5, ResNet-18 and AlexNet with various layer combinations

**Built a Gomoku AI in Python**                                                                             **Fudan University**

*Team Leader*                                                                                                  2018.03–2018.06

- Realized Monte-Carlo Tree Search Algorithm and Minimax Search Algorithm, along with multiple enhancements, such as alpha-beta pruning, VCX algorithm, Zobrist Transition table and fast evaluation with dynamic updates

**Analysis of Social Information (5m records) with PySpark**                                 **Fudan University**

*Independent*                                                                                                  2018.03–2018.04

- Extracted statistical information using RDD APIs in PySpark
- Applied Naïve Bayes Algorithm using MLlib to predict a person's gender and achieved an accuracy over 98%

## ACTIVITIES

**Student Union of School of Mathematical Science**, *Vice Minister of Arts and Literature Department*   2016.09–2017.06

**Yunnan Dali Innovative Development Competition**, *Member of Committee*                        2017.06–2017.07

**SK SUNNY Volunteer Program**, *LifeStyle Group Member*                                          2016.09–2017.01

**Gapper Volunteer Program**, *Galle Group Member*                                                  2017.07–2017.07

## HONORS & AWARDS

- The First Prize Scholarship (4/31)                                                                          2018.10
- Second Prize in 2017 China Undergraduate Mathematical Contest in Modeling (Top 0.8%)        2017.11
- Third Prize in 2017 "Shengzhen Cup" Mathematical Modeling Challenge                            2017.08
- Second Prize in 19th "Huadong Cup" Mathematical Modeling Challenge (Top 6)                  2017.06
- Outstanding Volunteer and National Top 5 Educational Documentary Online                        2017.01
- The Second Prize Scholarship (36/144)                                                                   2016.12

## SKILLS

- **Language**: native in Chinese, proficient in English (TOEFL 106)
- **Computer Languages and Applications:** Python, MATLAB, R, LaTeX, HTML/CSS
- **GitHub: https://github.com/zhangshun97**