

EDUCATION

Shanghai Jiao Tong University

Shanghai, China

B.S. in Computer Science

September 2017 – June 2021(expected)

- Selected to ACM Honored Class (an elite CS program at SJTU for the top 5% of students)

RESEARCH EXPERIENCE

Shanghai Jiao Tong University (Department of Computer Science)

Shanghai, China

Research Assistant to Professor Hai Zhao

June 2019 – Present

Unsupervised Dependency Parsing Using Neural Network

- Proposed a neural network structure to increase the accuracy of traditional dependency parsing model like DMV.
- Experiments show the neural network structure can boost the performance of traditional DMV model.

Deep Unsupervised Constituent and Dependency Parsing

- Proposed an unsupervised autoencoder based model that do both constituent parsing and dependency parsing.
- Proposed a method to combine autoencoder and HPSG(head-driven phrase structure).
- Achieved state-of-art performance on WSJ and SNLI dataset.

COURSE PROJECTS

RISC-V CPU (Verilog)

2019

- A five stage CPU written by Verilog.

MX*-Compiler (Java)

2019

- Compiled C-and-Java-like language to x86-64 Assembly in NASM assembly.
- Implemented graph coloring register allocation, semantic analysis, dead code elimination.
- Runs faster than gcc O1.

Text Classification for Sentiment Analysis (Python)

2019

- Binary classification task on comments of takeout.
- Use text CNN and LSTM to do classification.
- Won fourth place on the [Kaggle leaderboard](#).

Click-Through Rate Prediction (Python)

2019

- Binary classification task on a real database provided by HUAWEI app store.
- Use XGBoost and WDN to do classification.
- The result is above the strong baseline.

TEACHING EXPERIENCE

CS151 Computer Programming (A)

September - December 2018

Teaching Assistant

- Responsible for programming assignment and AI course work design.

CS147 Data Structures (A)

February – June 2018

Teaching Assistant

- Responsible for programming assignment and train ticket course work design.

SELECTED AWARDS AND HONORS

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| • Zhiyuan Honorary Scholarship (top 10% at SJTU) | 2016, 2017, 2018 |
| • Shanghai Jiao Tong Scholarship (top 20% at SJTU) | 2016, 2017, 2018 |

ADDITIONAL INFORMATION

Computer and Language Skills

- C++, Python, Java, Verilog