

Yirui Gao

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EDUCATION

Shanghai Jiaotong University Joint Institute, Shanghai, China

University of Michigan-Shanghai Jiaotong University Joint Institute Sept. 2016 - Aug. 2020 (Expected)

Bachelor of Electrical and Computer Engineering Overall GPA: 3.62 / 4.00

University of Michigan, Ann Arbor, the United States

School of Information Aug. 2019 - Aug. 2021 (Expected)

Master of Science in Information, Specialized in Data Science Overall GPA: 4.00 / 4.00

SKILLS

Programming Python, R, C/C++, SQL, MATLAB, HTML, JavaScript

Software & Tools MicroSoft Office, LaTeX, Tableau, Origin, Visual Code, Rstudio, DBrowser

Languages Chinese Mandarin (native), English (fluent)

SELECTED PROJECT

Foreseer Group, School of Information, University of Michigan, Ann Arbor Oct. 2019 - current

Research project *Emoji prediction based on user traits for Reddit data*

- Used SQL to generate database for Reddit posts and extracted emojis in Reddit posts as training labels
- Formalized user user and subreddit specialized information to build feature representations
- Applied Python frameworks to train different machine learning models and perform emoji predictions

Course Natural Language Processing, School of Information

Jan. 2020 - current

Course project *Extraction of Character Relationship from Novel Summaries*

- Used BookNLP to extract and analysis character information from book summaries
- Adapted deep neural network to train the model for predicting sequences of character relationships

Course Intermediate Programming, School of Information

Sept. 2019 - Dec. 2019

Final project *Laptop website simulation*

- Scraped and used SQL to generate database for laptop data from BestBuy and implemented query functions
- Used Python's flask framework to display laptop information front edge interactions

Advanced Network Laboratory, Shanghai Jiaotong University

Mar. 2019 - June 2019

Research project *Sentiment analysis and topic popularity prediction*

- Used Python framework sklearn to build word embeddings and trained the input tweet data
- Designed graphic flowchart for the training model

PUBLICATION

Qitian Wu, Yirui Gao, Xiaofeng Gao, Paul Weng, and Guihai Chen. 2019. Dual Sequential Prediction Models Linking Sequential Recommendation and Information Dissemination. KDD'19, New York, NY, USA, 447-457.

WORK EXPERIENCE

UM-SJTU Joint Institute

Sept.2017 - Dec.2017 & Sept.2018 - Dec.2018

Teaching assistant (TA) for courses *Academic Writing, Introduction to Circuits*

- Helped professors post announcements and instructions on Canvas platform to 180 students
- Led weekly recitation classes and office hours to help students understand the course contents
- Assisted professors in grading 10 assignments, 4 essays and 5 exam papers in total

UM-SJTU Joint Institute Center for Learning and Teaching (CLT)

Mar. 2018 - Aug. 2019

Teaching assistant mentor

- Organized regular TA conference and held TA training workshops every semester
- Collected TA-related issues via CLT emails and investigated to deal with them every semester