Maoran Xu

Curriculum Vitae

Handan Rd. No.220
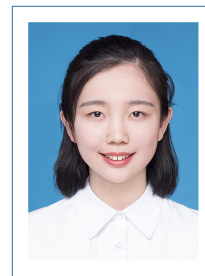*Shanghai, China*
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✉ *moranxu23@gmail.com*
🖥 *https://moran-xu.github.io*
DOB: Oct. 16, 1996

Education

Sep 2014 – Present **Fudan University, China**, *Bachelors of Science*, Mathematics and Applied Mathematics*(Data Science & Technology)*.
Relevant Courses: Mathematical Analysis (I, II&III), Advanced Algebra (I&II), Fundamental Statistics (I&II), Statistical Computing, Introduction to Statistical Machine Learning, Data Visualization

Honors & Awards

Jan 2017 Meritorious Winner of Mathematical Contest In Modeling

Sep 2015& Sep 2016 Third Prize of the Scholarship for Outstanding Students at Fudan University

Sep 2014 First Prize of the Scholarship for Freshman Students at Fudan University

Research Experience

May 2017 – Present **Research Assistant**, SUPERVISOR: NAN CAO AT TONGJI UNIVERSITY.
Developed an interactive situation awareness framework for security domain experts with machine learning tools. Made a successful submission to ACM SIGCHI, 2018 as the first author.

Selected Projects

Jul 2017 **New York City Taxi Analysis**, *Course Project for Large Scale distributed system*.
Used parallel computing tools on big scale datasets. Statistical and clustering methods were implemented on NYC open datasets to analyze driving patterns.

Jul 2017 **Texas Hold'em Bot**, *Course Project for Introduction to Artificial Intelligence*.
Designed a robot who played Hold'em Bot with human, adopted reinforcement learning strategy and kelly-criterion rule for investment.

Jul 2017 **US Baby Name Analysis**, *Course Project for Time Series Analysis*.
Applied typical time series model on baby name statistics over 20th century in U.S.A.. Made prediction and interesting relationship with big events on these data.

Jan 2017 **Large-scale Video Classification**, *Course Project for Statistical Machine Learning*.
Implemented neural network on large-scale video datasets for categorization. Implemented RBM and PCA for dimension reduction and utilized class relationships and feature fusion to gain higher accuracy.

Nov 2016 **Quanquan App.**, *Short-term Internship for ECTE China*.
Designed an algorithm system for Quanquan, an educational application helping test takers better prepare for professional tests. The application had already been released in both IOS and Android markets.

Skills & Interests

Programming PYTHON, R, MATLAB, JAVASCRIPT, C

Software LaTeX, ADOBE PHOTOSHOP

Interests PIANO, CLARINET, CHORAL SINGING (Chief Alto in Fudan Echo Singers)

Languages MANDARIN (Native speaker), ENGLISH (Professional working proficiency), JAPANESE (Good)