

JIWEN ZHANG

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EDUCATION

Fudan University, China – Bachelor of Data Science (expected graduate in 2021)	<i>September 2016 – Present</i> Overall GPA: 3.81/4.00 (3/74)
National University of Singapore, Singapore – School of Science (exchange)	<i>July 2019 – December 2019</i> Overall GPA: A/A+
Cambridge University, the United Kingdom – Summer school of culture and economics	<i>July 2018 – August 2018</i> Overall GPA: 86.5/100.0

RESEARCH EXPERIENCE

NEXT++, Singapore <i>Research Intern</i> Advisor: Dr. Xiang Wang and Prof. Chua Tat Seng , School of Computing, National University of Singapore <i>Graph Adversarial Attack for Link Prediction (KDD'20, under review)</i> <ul style="list-style-type: none">Proposed a reinforcement learning based attack model which is capable of learning transferable priors from its surrogate and generating adaptive attack policy according to the query feedback from the target model.Developed a pruning strategy to accelerate the training of policy network and proved its reasonableness.Achieved state-of-the-art performance on Cora, Citeseer and PolBlogs dataset.	<i>Jul. 2019 - Jan. 2020</i>
FDU Science & Innovation Project <i>Researcher</i> Advisor: Prof. Lei Xue , School of Life Science, Fudan University <i>Molecular Mechanism of Extremely Low Frequency Electromagnetic Fields on Cell Proliferation</i> <ul style="list-style-type: none">Data analysis: Applied ImageJ for neuroimaging, which is capable of using Non-local means method to remove noise and comparing cyclical changes in cell proliferation.Used flow cytometry and laser scanning confocal microscope to observe the mitotic state of cells.	<i>Oct. 2016 - Nov. 2017</i>

WORK EXPERIENCE

Deloitte, China <i>Part-time Assistant</i> <ul style="list-style-type: none">On-site data-analyzing internship. Learned and implemented various data processing skills such as quantity estimation, confidence check, random sampling and missing values and outlier handling.	<i>Dec. 2018 - Jan. 2019</i>
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COURSE PROJECTS

Twitter-based Social Network Analysis [report] <ul style="list-style-type: none">Used twitter API to collect the raw data, i.e. 209736 geo-tagged tweets.Conducted community detection on the heterogeneous network composed of 3878 US cities and 4508 twitter users.Employed a pre-trained(by microsoft) sentiment analysis model to assign a value to each user-location pair.Learned source code of Neural Collaborative Filtering(NCF) and Factorization Machine(FM) and implemented tensorflow version for our twitter data.
Reinforcement-learning-based Gomoku AI Design [report] <ul style="list-style-type: none">Applied sota algorithms including Genetic Algorithm(GA), Monte Carlo Tree Search(MCTS) and Reinforcement Learning(RL) on the adversarial learning task of Gomoku.Competed with other Gomoku AIs and best beat SPARKLE.

SCHOLARSHIPS

The First Prize Scholarship of Fudan University (Top 5%)	2019
TFI LEaRN Scholarship from National University of Singapore	2019
The Second Prize Scholarship of Fudan University (Top 10%)	2017, 2018
Dow Chemical Second-Class Science and Innovation Awards (Top 5%)	2017
LongshengYuTongyin Scholarship of Fudan University (Top 3%)	2017