

YANJIAN ZHANG

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🎓 EDUCATION

Fudan University

SH, China, Aug. 2016 - Present

B.S. in *Data Science* Major: *Information Security(Data Science & Technology)*

Course: Advanced Data Analysis(A), Artificial intelligence(B+), Machine Learning(B+)

Honor: CURE(Top 10%, Hui-Chun Chin and Tsung-Dao Lee Chinese Undergraduate Research Endowment)

Fudan University Shanghai Alumni Association Scholarship(Top 10%)

Fudan University Third Class Scholarship(Top 20%)

University of British Columbia

UB, Canada, Jun. 2019 - Jul. 2019

Summer School GPA: 4.0/4.0

Course: Urban Big Data Analysis (A+), Geographic Information System (A+)

🏢 PROFESSIONAL EXPERIENCE

FDU Natural Language Processing Lab

SH, China, Aug. 2018 - Present

RA, *End-to-end Term Name Generation Project*, supervised by Zhongyu Wei

- Built up dataset with 18,000 pieces of data by crawling. Each piece contained more than 100 columns of data from different websites
- Completed each implementation of the 6 following iterations within one week:
6 attention mechanisms in Hierarchical RNN and GCN, Graph attention, Graph2Seq, CopyNet, CopyNet+GCN
- Dealt with the parallelism of inputs using Graph-based model and adapt attention by altering to peephole attention
- Improved generation of domain-specific regular patterns by abbreviation during training and inference process
- Increased 5.3 scores in BLEU-1 than the Seq2Seq model with attention. The 57th annual meeting of the Association for Computational Linguistics (ACL 2019) short paper casting (first author) received reviewer marks: 3.5, 3.5, 3.5 out of full mark 5

Bitlink Capital Co., Ltd.

SH, China, Jun. 2019 - Nov. 2019

Transaction Strategy Intern, *Grid Transaction System Project*

- Finished the Transaction Back-testing System, which has been used by the company for every transaction backtesting
- Implemented Fourier and Wavelet analysis from reading 3 related tutorials, more than 5 papers, and more than 20 webpages
- Extracted the high-frequency information with Wavelet to determine the hyperparameters in the grid transaction system

FDU Multimedia Information Lab

SH, China, Oct. 2017 - Feb. 2018

RA, *Computer Vision Research Group*

- Trained models for image caption on Flickr8k using Resnet, image classification on Fashion Mnist and Cifar, using CNN + Pooling

Shanghai Fudan Information Technology Co., Ltd.

SH, China, Mar. 2018 - Oct. 2018

Intern, *Front-end Development Group*

- Established disease-specified system using javascript, Vue, Loopback, NodeJS framework in both in computer and mobile web page
- Finished the patient list CRUD implementation(Create, Retrieve, Update, Delete) of patient information of the disease-specific system

Project: Gomoku AI on Reinforcement Learning

SH, China, Jun. 2019 - Jul. 2019

Participants, *Group Project*

- Clarified the tasks into two part: feature capturing and RL with neural network and designed the interface and functions for teammate
- Shrunked the executable file size by implementing the neural network backpropagation with Python List operations
- The Gomoku AI can overpower p1sq 7 (ranked 43/58 in published Elo Ratings) with a score of 13:7, and ranked 5/30 in the class

🧩 EXTRACURRICULAR ACTIVITY

HackxFudan National College Student Hacker Competition

SH, China, Oct. 2017

- Created VR Experiencer: Preview the purchase effect of architecture and furniture and ranked the 2nd place in submitted 60 projects.
- Introduced the visualization model in Oculus using AutoDesk API and controlled movement using MYO Wristband SDK development

University of McMaster Summer School & Competition

ON, Canada, Jun. 2018 - Jul. 2018

- Learned the course about innovation and entrepreneurship and completed the final project dealing with the car-parking problem
- Took part in a Marking investigation, Business model building, and Prototype design and present the work in the pitch competition
- Ranked the 1st place in 6 teams for the final pitch competition

Mathematical Contest In Modeling MCM/ICM

SH, China, Feb. 2019

- Found the major 6 indexes correlated to opium and heroin addiction within more than 50 indexes. Designed transfer matrices for the spreading trends of American opium and heroin in state and inter-state levels, won the Honorable Mention Prize

Fudan University Student Association & Competition

SH, China, Jun. 2018 - Dec. 2019

- President of Fudan Sailing Association, Member of Fudan Sailing Team.
- Took part in Shanghai University Student Sailing Games, ranked 7th out of 12 schools
- Class monitor for 2 years, Vice-president of Data Science School Student Union for 2 years

🔧 SKILLS

- Programming Language** Proficient in Python, R. Skilled in Matlab, Vue.js, NodeJS, MySQL, JAVA, C/C++
- Machine Learning** Proficient in Pytorch, Tensorflow, Numpy, Pandas
- Website Construction** Built the technical blog homepage using Hexo+Next: <https://dongfanker.github.io>