Update on Aug. 25th Chaoqi Yang

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EDUCATION

School of Cyber Security, Shanghai Jiao Tong University

Sep. 2015 - Present

Overall GPA: 89.3/100 (3.83/4.3), Major GPA: 89.1/100 (3.81/4.3) Ranked: 9/101

Core Courses: • Mathematical Analysis (96, Top 1%), • Linear Algebra (95, Top 5%), • Probability and Statistics (98, Top 1%), • C++ Programming (91), • Computer Organization and Architecture (92), • Principle of Database (94, Top 5%), • Mathematical Foundation of Information Security (96), • Principle of Compiling, • Data Structure and Algorithm (94, Top 5%), • Principle and Technology of Computer Communication Network, • Physics (99, Top 2%), • Digital Signal Processing (93, top 5%), • Signal and System (96, Top 1%), • Analog Electronics Technique (97, Top 1%)

RESEARCH EXPERIENCES

Topic 1: Social Network Analysis – Topic Popularity Prediction | SJTU & Tencent

July 2017 - Jan. 2018

Advisor: Xiaofeng Gao, Associate Professor at Department of Computer Science and Engineering, SJTU Co-advisor: Peng He, Senior Researcher of WeChat Business Division Data Center, Tencent Inc.

- Reviewed 60+ papers in topic popularity prediction and made a list of indexes including records for each paper
- Cooperatively proposed a novel Bayesian model incorporated with fuzzy membership and adopted EM algorithm to estimate the parameters
- Kept close connection with staff from Tencent on detailed data requirements, and extracted 23 features from millions of WeChat retweeting records and user profile information
- Conducted extensive experiments on Twitter, Weibo and WeChat comparing with six strong baselines, and achieved improvement of mean absolute percent error (MAPE) by 13.10%

- Explored and crawled data from Twitter, Weibo with API and filtered data sets for future use of our laboratory research
- Proposed a novel survival model combining the survival boundary (obtained by two Gaussian distributions) and hazard ceiling to characterize the diffusion of cascades
- Employed three useful features to capture both the dynamic and static characteristics of cascades
- Conducted extensive experiments on Twitter and Weibo, achieved a relative high recall and early detection time

Topic 3: Data Mining – UserCredibility | University of Illinois at Urbana-Champaign

July. 2018 - Present

Advisor: Hari Sundaram, Associate Professor at Department of Computer Science and Department of Advertising, UIUC

Partner: Kanika Narang & Adit Krishnan, PhD student at Department of Computer Science, UIUC

- Conducted data extraction and feature (total 35) preprocessing on 10+ dataset dumps from Stackexchange platform
- Reviewed 40+ papers in Community Question Answering and graph convolutional neural networks from top conf.
- Did extensive data analysis, model design, and experiment verification with the help of my advisor and partners
- Met with advisor daily or weekly, brain storming, discussed and debugged the error and results of the experiments

PUBLICATIONS

- Chaoqi Yang, Qitian Wu, Xiaofeng Gao, Guihai Chen, "EPOC: Detecting Early Pattern of Outbreak Cascades in Social Networks". International Conference on Database and Expert Systems Applications (DEXA), 2018
- Qitian Wu, Chaoqi Yang, Hengrui Zhang, Xiaofeng Gao, Paul Weng, Guihai Chen, "Adversarial Training Model
 Unifying Feature Driven and Point Process Perspectives for Event Popularity Prediction". International Conference on
 Information and Knowledge Management (CIKM), 2018
- Qitian Wu, Chaoqi Yang, Xiaofeng Gao, Peng He, Guihai Chen, "EPAB: Early Pattern Aware Beyesian Model for Social Content Popularity Prediction". IEEE International Conference on Data Mining (ICDM), 2018

SELECTED PROJECTS (codes and fancy demos are available in my GitHub https://github.com/ycq091044)

Project 1: Wireless Remote Control & Web Design | Shanghai Jiao Tong University

Sep. 2016 – Feb. 2017

Advisor: Shiwen Zhang, Senior Engineer at School of Electronic Information & Electrical Engineering, SJTU

- Implemented an Android App using bluetooth in Android Studio to control a small mechanical car wirelessly
- Realized four control modes with five slide pages: direction button, voice (iFly Specch API), gesture shift, gravity sensor (3D Gyroscope), and realized video transmission
- · Created a website with a series of html files on a cloud serer to represent my work
- Got an A in this project and win an honor to show it in the hallway

Project 2: Design of Image Retrieval Interactive System | Shanghai Jiao Tong University

July 2017 – Sep. 2017

Advisor: Liqing Zhang, Professor and Vice Dean at School of Electronic Information & Electrical Engineering, SJTU Partner: ZhenZhong Zhou, PhD Student at Department of Computer Science and Engineering, SJTU

- Cooperatively implemented a clothing recommendation system: an android application & a fancy web application
- Constructed a PHP cloud server and crawled millions of pictures of clothes from Taobao and Tmall
- Help to label the pictures using Faster-RCNN, used Google Chrome Console and Socket to connect
- Been highly praised by advisor and got strong comments on my ability to code and execute

Project 3: Design of Online Chatroom Based on WeChat | Shanghai Jiao Tong University

Sep. 2017 – Dec. 2017

Advisor: Xinghao Jiang, Professor and Vice Dean at School of Cyber Security, SJTU

- Finished complicated configuration and set up a local server with XAMPP and MySQL
- Imported all emojis from WeChat, implemented a software client with PyQt4 and Python Socket
- Implemented a web client like WeChat Moment with Flask and Bootstrap
- Got full marks in this project

AWARDS & HONORS

- B-rate Outstanding Scholarship in Shanghai Jiao Tong University, 2016 & 2017
- Kwang-Hua Scholarship (Top 3 in department), 2016; Huawei scholarship (Top 5 in department), 2017
- Meritorious Winner Prize (Top 10%), Mathematics Contest in Modeling (MCM), 2018
- Provincial 2nd Prize, China Undergraduate Mathematical Contest in Modeling (CUMCM), 2017
- Provincial 2nd Prize, The Chinese Mathematics Competitions (CMC), 2016
- Provincial 3rd Prize, China Undergraduate Physics Competition, 2016
- Eastern Division 3rd Prize, Shing-Tung Yau High School Mathematics Awards, 2015
- National 1st Prize, Chinese Mathematical Olympiad in Senior, 2014

LEADERSHIP & ACTIVITIES

Summer Camp of Science | Shanghai Jiao Tong University | Activity Leader & Reporter

July 2016

• Led a group of high school students to visit JIANGNAN SHIPYARD, finished a total of 20 pieces of report

YIYOU (the most influential student publication on the campus) | SJTU | Chief Editor

Mar. 2016 - Feb. 2017

• Edited and typeset 15 WeChat articles concerning school life and got a lot of comments and readings

Class Committee | Shanghai Jiao Tong University | League Branch Secretary

Sep. 2017 – Present

• Worked as the League branch secretary of the Class 3, School of Electronic Information & Electrical Engineering

Volunteer Practice | Shanghai

Nov. 2016 & Feb. 2017 & April 2017

- Prepare, stored, transported, and allocated clothes for runners in 2016 Shanghai International Marathon (2 days)
- Helped and guided migrant workers during the Spring Festival travel rush in South Shanghai Railway Station (1 day)
- Maintained order and kept the environment clean in 2017 Shanghai International Half Marathon (1 day)

SKILLS & INTERESTS

Techniques: C/C++, Matlab, Python, R, HTML, Pascal, Latex (especially expertise in Matlab, Python and Latex)

Languages: TOFEL 94 (R:27, L:27, S:20, W:20)

Interests: Orienteering, Badminton, Table Tennis, Swim, Travel, Music