Chaoqi Yang

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EDUCATION

• Shanghai Jiao Tong University (SJTU)

Shanghai, China

Bachelor of Engineering in Information Security, School of Cyber Security

Sep. 2015 - Jul. 2019 (Expected)

- Major GPA: 91.08/100 (3.86/4.00) Cumulative GPA: 89.34/100 (3.75/4.00)
- TOEFL: 102 (R:29, L:27, S:22, W:24) GRE: 329+4.0 (V:159, Q:170, AW:4.0)
- o Math Courses: Mathematical Analysis I (91, Top 5%), Mathematical Analysis II (96, Top 1%), Linear Algebra (95, Top 5%), Probability and Statistics (98, Top 1%), Mathematical Foundation of Information Security (96, Top 1%)
- University of Illinois at Urbana-Champaign (UIUC)

IL, USA

Research Intern at Crowd Dynamics Lab (Data Mining), Department of Computer Science

Jul. 2018 - Oct. 2018

Publications

[1] EPOC: Detecting Early Pattern of Outbreak Cascades in Social Networks

[pdf]

Chaoqi Yang, Qitian Wu, Xiaofeng Gao, Guihai Chen. The 29th International Conference on Database and Expert Systems Applications (DEXA). (Acceptance Rate 21.88%, 35/160)

- I designed the algorithm; I implemented the experiments; I did all the paper writing and visualization.
- [2] Adversarial Training Model Unifying Feature Driven and Point Process Perspectives for Event Popularity Prediction

[pdf]

Qitian Wu, Chaoqi Yang, Hengrui Zhang, Xiaofeng Gao, Paul Weng, Guihai Chen. The 27th International Conference on Information and Knowledge Management (CIKM). (Acceptance Rate 17.00%, 147/862)

- I helped design the algorithm iteratively; I wrote Related Work part in paper; I implement part of the experiments; I did paper visualization.
- [3] EPAB: Early Pattern Aware Beyesian Model for Social Content Popularity Prediction [pdf] Qitian Wu, Chaoqi Yang, Xiaofeng Gao, Peng He, Guihai Chen. The 20th IEEE International Conference on Data Mining (ICDM). (Acceptance Rate 19.94%, 189/948)
 - I helped design the algorithm iteratively; I implement part of the experiments; I did paper visualization.

Submission & Working

[1] MoTiAC: Multi-objective Actor-Critics for Real-time Bidding in Display Advertising Chaoqi Yang, Junwei Lu, Xiaofeng Gao, Haishan Liu, Qiong Chen, Gongshen Liu, Guihai Chen. The 25th ACM

[pdf]

- I designed the algorithm; I helped implemented the experiments; I did all the paper writing and visualization.
- [2] A Graph Convolutional Approach to Answer Selection in Community Question Answering Kanika Narang, Chaoqi Yang, Adit Krishnan, Hari Sundaram, Carolyn Sutter. (Rejected by WWW2019, currently working for CIKM2019)

[pdf]

• I designed the algorithm; I implemented the experiments; I did paper visualization.

SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) (Under Review)

Research Experience

• Reinforcement Learning for Real-time Bidding

Tencent Social Ads, Beijing, China

Nov. 2018 - Jun. 2019 (Expected)

Advisor: Liubin (Ubi) Wang and Haishan Liu

- Changed A3C structure and proposed multi-objective reinforcement learning algorithm (in short, MoTiAC): using multiple critics to guide one actor towards a balance situation between different objectives (KDD acceptance)
- Improved daily revenue by 4.3% and ROI by 2.6% for Tencent Ads platform in large-scale off-line experiments
- Graph Convolution for Answer Selection in Community QA

UIUC, IL, USA

Advisor: Hari Sundaram; Co-worker: Kanika Narang and Adit Krishnan

Jul. 2018 - Nov. 2018

- Proposed induced-relation (contrastive, similarity and reflexive) graph convolutional networks (WWW submission)
- Conducted extensive experiments on 5 tech and 5 non-tech Stackexchanges as well as 3 SubReddits
- o Improved Accuracy & MRR by 4.5% & 2% (16% & 7%) for Stackexchanges (SubReddits) respectively

• Popularity Predicting for Official Account Articles in WeChat Advisor: Peng He and Xiaofeng Gao

Tencent, Shenzhen (remote), China Jan. 2018 - Jun. 2018

• Found three powerful inductive factors for cascade diffusion: Influence, Attractiveness and Potentiality

- Inserted a hidden layer into Bayesian network structure, and used EM algorithm to train (ICDM acceptance)
- Reached a great performance at 92.96% in top-50 coverage of WeChat popular articles

• Information Dissemination in Social Networks

SJTU, Shanghai, China

Advisor: Xiaofeng Gao and Guihai Chen

Apr. 2017 - Jan. 2018

- Crawled data from Twitter, Weibo with API and filtered datasets for future use of laboratory research
- Employed survival theory, combining static and dynamic perspective for cascade dissemination (DEXA acceptance)
- Inspired by GAN, unified feature driven model and point process model in adversarial training (CIKM acceptance)
- o Found that model-free PP is better in short-period prediction and model-based PP is better in long-period prediction

Honors & Scholarships

• SJTU Merit Student Award (Awarded to 4/97 students in major) 2016	, 2017, 2018
• Top-10 SJTU Merit Student Award (Awarded to 1/4689 student in department, 10 students in SJTU)	2018
• Rong Chang Innovation Scholarship (CNY ¥30,000. Awarded to 20 student scholars in SJTU)	2018
• Huawei Scholarship (Awarded to 4/97 students in major)	2017
• Kwang-Hua Scholarship (Awarded to 1/97 student in major)	2016

Competitions

• 1st Prize, Mathematics Contest in Modeling (MCM) (Meritorious Winner, Top 8% globally)	2018
• 2nd Prize, China Undergraduate Mathematical Contest in Modeling (CUMCM)	2018
• 2nd Prize, Chinese Mathematics Competitions (CMC)	2017
• 3rd Prize, China Undergraduate Physics Competition (CUPC)	2016
• 3rd Prize, Shing-Tung Yau Science Awards (Yau Awards) (Top 5% in East, China)	2015
• 1st Prize, Chinese Mathematical Olympiad (CMO) (Top 0.1% in Zhejiang, China)	2014

STUDENT TRAVEL GRANT

• Meng-Minwei Travel Grant (CNY ¥15,000. DEXA'18 Conference, Regensburg, Germany)	2018
• ACM SIGIR Travel Grant (USD \$1,000. CIKM'18 Conference, Turin, Italy)	2018
• Visiting Scholar Travel Grant (CNY ¥8,000. Research Intern at UIUC, IL, USA)	2018

SOFTWARE ENGINEERING

• Smart Car Remote Controller 🗘 🔾

SJTU, Shanghai, China

Sep. 2016 - Feb. 2017

- Group Leader, codes and demos are available

 Sep. 201

 Advisor: Dr. Shiwen Zhang, Professor and Senior Engineer at SEIEE, Shanghai Jiao Tong University
 - o Implemented an Android App using Java, Socket, Bluetooth to control a smart car wirelessly
 - Realized four control modes with monitor screen: direction button, voice (iFly Speech API), gesture shift, gravity sensor (3D Gyroscope), and realized video transmission
 - o Created a website with series of Html, JavaScript, Css files on a cloud server to present work
 - Got an A+ in this project and won an honor to show to the public

Extracurriculum

- ACM Member (ID: 7074444), IEEE Member (ID: 95214155), CCF Member (ID: A0572G)
- Chief Editor: YIYOU (the most influential student publication on the campus)
- Volunteer: 2016 & 2017 Shanghai International Marathon, South Shanghai Railway Station
- Participant: 2015 & 2016 & 2017 "12 · 9" Campus Marathon, 2016 & 2017 & 2018 Labor Day Campus Marathon
- Class Secretary: Class F1503003, Shanghai Jiao Tong University
- Vice Monitor & Teaching Assistant in Math: Class 17, Shaoxing No.1 Middle School

Skills & Interests

Coding: Python (Pytorch, Tensorflow), C/C++, Matlab Writing: Latex, Markdown Plotting: Seaborn, Highcharts Interests: Travel, Music, Sports (Orienteering, Badminton, Table Tennis, Swimming)