# Chaoqi Yang

No.800 Dongchuan Road, Minhang District, Shanghai | (+86) 158-2118-8556 | ycqsjtu@gmail.com Homepage: http://chaoqiyang.com

#### **EDUCATION**

• Shanghai Jiao Tong University (SJTU) Shanghai, China Sep. 2015 - Jul. 2019 (Expected) Bachelor of Engineering in Information Security, School of Cyber Security Major GPA: 91.08/100 (3.86/4.00) Cumulative GPA: 89.34/100 (3.75/4.00) o **TOEFL**: 102 (R:29, L:27, S:22, W:24) **GRE**: 329+4.0 (V:159, Q:170, AW:4.0) IL, USA • University of Illinois at Urbana-Champaign (UIUC) Research Intern at Crowd Dynamics Lab (Data Mining), Department of Computer Science Jul. 2018 - Oct. 2018 Research Interests • Applications: social networks analysis, computational advertising • Artificial Intelligence: data mining, deep learning, reinforcement learning **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) [2] Adversarial Training Model Unifying Feature Driven and Point Process Perspectives for Event [pdf] Popularity Prediction 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) [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) Submission & Working [1] Using Survival Theory in Early Pattern Detection for Viral Cascades [pdf] Xiaofeng Gao, Xiaosong Jia, Chaoqi Yang, Guihai Chen. IEEE International Transaction on Knowledge and Data Engineering (TKDE). (Under Review) [2] MoTiAC: Multi-objective Actor-Critics for Real-time Bidding in Display Advertising [pdf] Chaoqi Yang, Junwei Lu, Xiaofeng Gao, Haishan Liu, Qiong Chen, Gongshen Liu, Guihai Chen. The 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) (Under Review) [pdf] [3] A Graph Convolutional Approach to Answer Selection in Community Question Answering Kanika Narang, Chaoqi Yang, Adit Krishnan, Hari Sundaram, Carolyn Sutter. (Currently working) [4] Using Multi-Task Learning Models for Click Through Rate and Conversion Rate Predictions [pdf] Junwei Lu, Chaoqi Yang, Jiaxi Liu, Liubin Wang, Haishan Liu. (Currently working) Research Experience • Reinforcement Learning for Real-time Bidding Tencent Social Ads, Beijing, China

Advisor: Liubin (Ubi) Wang and Haishan Liu

Nov. 2018 - Jun. 2019 (Expected)

- Proposed feature share/transfer models for CTR and CVR prediction in a multi-task learning setting
- Changed traditional 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
- 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 Advisor: Hari Sundaram; Co-worker: Kanika Narang and Adit Krishnan

UIUC, IL, USA

Jul. 2018 - Nov. 2018

- Proposed induced-relation (contrastive, similarity and reflexive) graph convolutional networks
- Conducted extensive experiments on 5 tech and 5 non-tech Stackexchanges as well as 3 SubReddits
- 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, China

Jan. 2018 - Jun. 2018

- o Found three powerful inductive factors for cascade diffusion: Influence, Attractiveness and Potentiality
- o Proposed Bayesian structure learning for early pattern estimation of article popularity

#### • Information Dissemination in Social Networks

SJTU, Shanghai, China

Advisor: Xiaofeng Gao and Guihai Chen

Apr. 2017 - Jan. 2018

- o 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
- Unified feature driven model and point process model in adversarial training

### 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 S	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 o Advisor: Dr. Shiwen Zhanq, 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

#### SERVICES

- ACM Member (ID: 7074444), IEEE Member (ID: 95214155), CCF Member (ID: A0572G)
- Reviewer: IEEE Transactions on Network Science and Engineering (TNSE'18) Telecommunication Systems (TELS'18) International Conference on Database Systems for Advanced Applications (DASFAA'19)
- Teaching Assistant: C++ Programming (CS048), Principles of Database (IS214), Mobile Communications (IS401)
- Lecturer: Social Network Analysis, Winter Symposium in 2017, Advanced Network Lab
- 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)