

# 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)*
  - **Rank:** 5/97     **Major GPA:** 91.08/100 (3.86/4.00)     **Cumulative GPA:** 89.34/100 (3.75/4.00)
- **University of Illinois at Urbana-Champaign (UIUC)** **IL, USA**  
Visiting Student Researcher at DAIS Lab, Department of Computer Science *Jul. 2018 – Oct. 2018*

## RESEARCH INTERESTS

- **Data Mining:** social networks analysis, computational advertising
- **Artificial Intelligence:** deep learning, reinforcement learning

## PUBLICATIONS

- [1] **EPOC: Detecting Early Pattern of Outbreak Cascades in Social Networks**  
Chaoqi Yang, Qitian Wu, Xiaofeng Gao, Guihai Chen. *The 29th International Conference on Database and Expert Systems Applications (DEXA)*. (Oral, Acceptance Rate 21.88%, 35/160)
- [2] **Adversarial Training Model Unifying Feature Driven and Point Process Perspectives for Event Popularity Prediction**  
Qitian Wu, Chaoqi Yang, Hengrui Zhang, Xiaofeng Gao, Paul Weng, Guihai Chen. *The 27th International Conference on Information and Knowledge Management (CIKM)*. (Oral, Acceptance Rate 17.00%, 147/862)
- [3] **EPAB: Early Pattern Aware Bayesian Model for Social Content Popularity Prediction**  
Qitian Wu, Chaoqi Yang, Xiaofeng Gao, Peng He, Guihai Chen. *The 20th IEEE International Conference on Data Mining (ICDM)*. (Oral, Acceptance Rate 19.94%, 189/948)

## SUBMISSION & WORKING

- [1] **Using Survival Theory in Early Pattern Detection for Viral Cascades**  
Xiaofeng Gao, Xiaosong Jia, Chaoqi Yang, Guihai Chen. *IEEE International Transaction on Knowledge and Data Engineering (TKDE)*. (Under Review)
- [2] **A Graph Convolutional Approach to Answer Selection in Community Question Answering**  
Kanika Narang, Chaoqi Yang, Adit Krishnan, Hari Sundaram, Carolyn Sutter. *The 30th International Web Conference (WWW)*. (Under Review)
- [3] **Using Multi-Task Learning Models for Click Through Rate and Conversion Rate Predictions**  
Chaoqi Yang, Jiaxi Liu, Liubin Wang, Haishan Liu. (Currently working)

## RESEARCH EXPERIENCE

- **Reinforcement Learning for Bidding Strategy in Advertising** **Tencent, 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
  - Replaced PID controller with reinforcement learning controller for higher conversion rate and lower cost
- **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
  - 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** **Tencent, Shenzhen, China**  
**Advisor:** Peng He and Xiaofeng Gao *Jan. 2018 – Jun. 2018*
  - Found three powerful inductive factors for cascade diffusion: *Influence, Attractiveness and Potentiality*
  - 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*
  - 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

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- **SJTU Excellent Student Award** (Top 5% in department, SJTU) *2016, 2017, 2018*
- **Top-10 SJTU Excellent Student Award** (Top 0.1%. Awarded to 10 students in SJTU) *2018*
- **Rong Chang Science Scholarship** (CNY ¥30,000. Awarded to 20 student scholars in SJTU) *2018*
- **Huawei Scholarship** (Top 5% in major, SJTU) *2017*
- **Kwang-Hua Scholarship** (Top 5% in major, SJTU) *2016*

## COMPETITIONS

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- **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

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- **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. Visiting Student Researcher at UIUC, IL, USA) *2018*

## SOFTWARE ENGINEERING

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- **Smart Car Remote Controller** [\[Github\]](#) **SJTU, Shanghai, China**  
**Group Leader**, codes and demos are available *Sep. 2016 – Feb. 2017*
  - **Advisor:** *Dr. Shiwen Zhang*, Professor and Senior Engineer at SEIEE, Shanghai Jiao Tong University
  - 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
  - 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

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- **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)*
- **Lecturer** of Social Network Analysis in Winter Symposium, Advanced Network Lab
- **Class Secretary** for F1503003, Shanghai Jiao Tong University
- **Vice Monitor & Teacher Assistant in Math** for Class 17, Shaoxing No.1 Middle School

## SKILLS & INTERESTS

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**Coding:** Python, C/C++, Matlab   **Writing:** Latex, Markdown   **Plotting:** Seaborn, Highcharts, Visio  
**Language:** TOEFL 102 (R:29, L:27, S:22, W:24), GRE 329+4.0 (V:159, Q:170, AW:4.0), Native Mandarin  
**Interests:** Travel, Music, Sports (Orienteering, Badminton, Table Tennis, Swimming)