

FENG QIAN

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Room 402, Conant Hall, 35th Oxford St., Cambridge, MA, USA

EDUCATION

Harvard University, MA, USA

Aug 2018 - Dec 2019

Master in Data Science

Peking University (PKU), Beijing, China

Sep 2014 - Jul 2018

Bachelor of Management in Information Management & Information System

Peking University (PKU), Beijing, China

Sep 2015 - Jul 2018

Bachelor of Science in Computer Science (Dual Major)

ACADEMIC PUBLICATIONS IN ARTIFICIAL INTELLIGENCE

PUBLICATIONS

1. **Feng Qian**, Chengyue Gong, Karishma Sharma, Yan Liu. Neural User Response Generator: Early Fake News Detection with Wisdom of the Crowd. *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence (IJCAI)*. 2018. [\[paper\]](#)
2. **Feng Qian**, Natali Ruchansky, Prajwal Anand, Yan Liu. A dataset published with paper : Fake News Detection Dataset with Both Article Body and User Responses. *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence (IJCAI)*. 2018. [\[paper\]](#)
3. **Feng Qian**, Chengyue Gong, Luchen Liu, Lei Sha, Ming Zhang. Topic Medical Concept Embedding: Multi-Sense Representation Learning for Medical Concept. *IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*. 2017. (Acceptance Rate 10.4%. Oral representation. IEEE BIBM TCCLS Student Award). [\[paper\]](#)[\[ppt\]](#)
4. Karishma Sharma, **Feng Qian**, He Jiang, Natali Ruchansky, Ming Zhang, Yan Liu. Combating fake news: A 42-page survey on identification and mitigation techniques. *ACM Transactions on Intelligent Systems and Technology (TIST)*. 2019. [\[paper\]](#)
5. **Feng Qian**, Lei Sha, Luchen Liu, Baobao Chang, Ming Zhang. Syntax Aware LSTM Model for Semantic Role Labeling. *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP) Workshop*. 2017. [\[paper\]](#)[\[ppt\]](#)
6. **Feng Qian**, Lei Sha, Baobao Chang, Zhifang Sui. Jointly Extracting Event Triggers and Arguments by Dependency-Bridge RNN and Tensor-Based Argument Interaction. *Association for The Advancement of Artificial Intelligence (AAAI)*. 2018. [\[paper\]](#)[\[ppt\]](#)
7. Lei Sha, **Feng Qian**, Zhifang Sui, Baobao Chang. Will Repeated Reading Benefit Natural Language Understanding? *China Computer Federation (CCF) Conference on Natural Language Processing & Chinese Computing (NLPPCC)*. 2017. [\[paper\]](#)[\[ppt\]](#)
8. Lei Sha, Xiaodong Zhang, **Feng Qian**, Baobao Chang, Zhifang Sui. A Multi-View Fusion Neural Network for Answer Selection. *Association for The Advancement of Artificial Intelligence (AAAI)*. 2018. [\[paper\]](#)[\[ppt\]](#)

ENTREPRENEURSHIP

CEO and Co-Founder of AdElite LLC ®

Dec 2018 - Present

- Designed and created an high-end academic summer program in which, with honor, we have 7 Harvard professors and 9 Harvard students to share their academic experience and experience.
- Did sales and sales management, made a \$180K revenue and \$50K net income in the first year.
- Designed and led a tech team to develop a whole web-based system that can support our sales management, student management, and academic management need.
- Our company is developing fast and we are looking forward to a 5X net income in the coming 3 years and another branch on the west coast next year.

Technique Consultant at Summit Education Enterprise®

Aug 2015 - Present

- Established sales channels with more then 10 top universities in China. Keep donating 10% of all my income to charity.
- Collected and cleaned sales data in the last ten years.
- Trained a xgboost decision tree model on the dataset, found out students who have a higher possibility to become our future customers, and asked salespeople to give them special discounts.
- Enhanced sales by 28% in the year of 2016 and 18% in 2017.

ACADEMIC RESEARCH EXPERIENCES IN ARTIFICIAL INTELLIGENCE

Melady Lab, University of Southern California (USC)

May 2017 - Present

Fake news detection using machine learning and deep learning methods

Advisor: Prof. Yan Liu, Dr. Natali Ruchansky

- co-authored a 42-page survey paper on the fake news detection and mitigation technology. [\[paper\]](#)
- Collected a brand new fake news detection dataset, which contains both news articles and user responses. Such feature is not possessed by any other dataset. [\[paper\]](#)
- Proposed and implemented a Two Layer Convolutional Neural Network with User Response Generator (TCNN-URG). TCNN-URG combines conditional generative model (C-VAE) and deep learning model (CNN) to utilize extra knowledge which lies between user responses and news article. Published on IJCAI. 2018. [\[paper\]](#)

Institute of Network Computing and Info System, Peking University

Jan 2017 - Present

Medical representation learning using machine learning and non-parametric method

Advisor: Prof. Ming Zhang, Dr. Luchen Liu

- Proposed and implemented Topic Medical Concept Embedding (TMCE) to address the problem that current embedding techniques could not consider multi-sense attributes of medical concepts.
- TMCE combines intuitions from both embedding model and non-parametric topic model, and outperforms other strong baselines on diagnose prediction and ability of interpreting.
- Paper published on IEEE BIBM. 2017. with an oral presentation and IEEE BIBM TCCLS Student Award. [\[paper\]](#)[\[ppt\]](#)

Key Laboratory of Computational Linguistics, Peking University

Sep 2016 - Oct 2017

Deep learning, machine learning, and neural networks on NLP tasks

Advisor: Prof. Baobao Chang, Dr. Lei Sha

- In order to address the problem that current deep learning model cannot utilize high-level semantic information provided by dependency relationships, proposed and implemented Syntax-Aware LSTM (SA-LSTM) which modifies the structure of Bi-LSTM according to the structure of dependency relationships. SA-LSTM reached new state-of-the-art on both Chinese and English SRL task. Work published on EMNLP workshop. 2017. [\[paper\]](#)[\[ppt\]](#)

- Further developed and adapted SA technique to event extraction task. Work published on AAAI. 2018. [\[paper\]](#)[\[ppt\]](#)
- Researched on whether repeated-reading models including deep-LSTM, multi-level attention, and multi-pass Bi-LSTM can help NLP tasks including POS tagging, sentiment analysis, semantic relationship classification, and event extraction. [\[paper\]](#)[\[ppt\]](#)

ES-CAD Lab, University of Illinois at Urbana-Champaign (UIUC) Jan 2016 - Sep 2016

Real time facial recognition system from video

Advisor: Prof. Deming Chen, Co-Advisor: Prof. Zuofu Cheng

- Proposed a new eigen-face frame selection algorithm.
- Designed a hardware integrated real time facial recognition pipeline aiming to move computation forward to front-end hardware, which improved the computation efficiency of servers by 37%.

Big Data Mining Group (BDM), Microsoft Research Asia (MSRA) Oct 2017 - Jun 2018

Conversation understanding tool research

Advisor: Wenhao Huang

- Researched and built conversation understanding tools for future Microsoft Office[®] products.

HONORS

- IEEE BIBM 2017 Technical Committee on Computational Life Sciences (TCCLS) Student Award
- Innovative Researcher Award of Peking University, 2017
 - One of the 37 undergraduate students selected from 50,000+ students including all master and PhD students in Peking University
- Academic Performance Award
 - 1st Three Year Overall Academic Performance in my department
- Shouren Chen Research Scholarship, 2017
 - Highest Student Research Scholarship of Peking University (0.2%)
- Student Excellent Research Award, 2017 (2%)
- Student Excellent Research Award, 2016 (2%)
- Honorable Mention Award in Mathematical Contest in Modeling (MCM) (10%)

SKILLS

Programming: C, C++, Python (Theano), Java, HTML, JavaScript, JQuery, CSS, Linux, Vim

Language: English (fluent), Mandarin Chinese (native)

- GRE: Verbal 158, Quantitative 167, Analytical Writing 3.5
- TOEFL: Total 112 (Reading 30, Listening 27, Speaking 27, Writing 28)

Teaching: Advanced Algorithm and Programming — Teaching Assistant

Music: Lead guitarist in a famous school band GentleMonster