Feng Qian

nickqian_china@163.com   (+86) 178-8883-7880

Room 608, 38 Building, Peking University, Beijing, 100871, China

EDUCATION

Peking University (PKU)   Sep 2014 – Jul 2018

➢ Dual degree in Bachelor of Engineering in Computer Science, GPA: 3.61/4.00.

➢ First major in Bachelor of Management in Information Management and Information System, GPA: 3.60/4.00.

➢ GRE: Verbal 158 (top 20%) +Quantitative 167 (top 7%) +Analytical Writing 3.5.

➢ TOEFL: Total 108 (Reading 30+Listening 27+Speaking 26+Writing 25).

RESEARCH EXPERIENCES

Institute of Computational Linguistic, Peking University, China   Aug 2016 – April 2017

Independent Researcher on New Semantic Role Labeling Algorithm Using Machine Learning Method

Advisor: Prof. Baobao Chang, Dr. Lei Sha

➢ Noticed that current Bi-LSTM model for semantic role labeling cannot make use of higher level syntactic information. Came up with Syntax-Aware LSTM (SA-LSTM) network structure to empower Bi-LSTM with the ability to utilize higher level syntactic information.

➢ Coded the new system in Python (Theano), did data processing in Java and Python and did experiment on command line Linux server with vim and shell.

➢ Surpassed the state of the art of Chinese semantic role labeling by 2.5% on Chinese Tree Bank 1.0.

➢ **Drafted, modified then submitted a first author paper *Syntax Aware LSTM Model for Chinese Semantic Role Labeling* to Conference on Empirical Methods on Natural Language Processing (EMNLP) 2017. Paper is accessable at https://arxiv.org/abs/1704.00405 .**

Coordinate Science Lab, University of Illinois at Urbana-Champaign, USA   Jun 2016 – Sep 2016

Researcher on Real Time Facial Recognition System from Video

Advisor: Prof. Deming Chen, Prof. Zuofu Cheng

➢ Did field research on *facial recognition from video* by reading papers and narrowed down the problem to frame selection, preprocessing, face detection and face recognition. Later read more than 50 papers on these specific areas.

➢ Attended meeting with professors and students once a week, reported literature research results, exchanged ideas on how to build the system.

➢ **Came up with a new eigen-face frame selection algorithm while discussing with *Prof. Zuofu Cheng.***

➢ **Designed a hardware integrated real time facial recognition pipeline aiming to move computation forward to hardware, which significantly improved the computation efficiency of servers.**

Institute of Network Computing, Peking University, China   Jan 2016 – Present

Researcher on Medical Sequence Data Prediction

Advisor: Prof. Ming Zhang, Dr. Luchen Liu

➢ Processed raw medical related data gained from hospital into optimal form for experiments.

➢ Read papers on sequence labeled data processing in medical data mining areas, then tested several baselines.

➢ **Found that no current embedding technique can tackle with notion which has numerical attribute. After several research and group meeting, started a project on numerical multi-sense embedding lead by me. We are now doing tense research on it and getting ready for another publication.**

SOCIAL WORK EXPERIENCES

School Band Named Gentlemon(ster) at Peking University │ Lead Guitar Jan 2015 – Jul 2016

➢ Managed my time to keep practicing guitar for one hour per day and attended band rehearsal every two weeks.

➢ Attended Peking University School Singing Contest as a band and got 1st in the 2nd final contest.

Two Summer Camps in USA │ Team Manager Jul 2014 – Sep 2014 / Jul 2015 – Sep 2015

➢ Took more than 100 public school students to more than 15 USA states as team manager.

➢ Communicated with both American and Chinese teachers in order to keep students safe and enjoyable.

➢ All the task and emergencies were processed in English.

Taught course: Advanced Computer Class for Art Student │ Teaching Assistant Sep 2016 – Jan 2017

➢ Discussed with Teacher the way to improve class atmosphere and experience.

➢ Answered student's question, przovide example code, spot bug in students' code at any time. At the same time, polish my HTML, JS, JQUERY skills and knowledge in a new way.

PROFESSIONAL SKILLS

Programming Languages: C/C++, Python(Theano, Numpy), Java, Html, Javascript, Jquery, Lisp

Academic tools and abilities：

➢ Linux CentOS/Ubantu command line, Vim

➢ Excellent in academic speech and communication, well express myself in academic group meeting in English.

➢ Excellent in personal communication in both Chinese and English, good team communicator.