

# Curriculum Vitae

**Lin Liuzixuan**

Peking University  
Computer Science

## EDUCATION

**BS, Computer Science (School of EECS), Peking University** Expected 07/2019  
Overall GPA: 3.63/4.00

**Double Major: Economics (National School of Development), Peking University**  
Overall GPA: 3.72/4.00



## AWARDS AND HONORS

Honorable Mention, MCM 2018	03/2018
Academic Progress Award, Peking University	09/2017
3 <sup>rd</sup> Prize in 2017 Peking University Programming Competition	05/2017

## RESEARCH EXPERIENCE

I'm interested in improving the performance of systems or developing applications with big data and machine learning techniques, and I have taken part in two projects as one of the main participants.

### **Sina Weibo (Microblog) Sentiment Analysis with Geo-semantics (2018.1-2018.6)**

**Adviser: Yanchun Sun (Associate Professor, Peking University)**

Sina Weibo, which is similar to Twitter in the US, is a place where people post their opinions and share their stories. The research group I'm in has collected the messages that people in Beijing posted in a year. Although sentiment analysis is nearly a "solved problem" on comments, social media like Weibo are much more complicated, which means there still exist some methods to improve the accuracy. What's more, sentiment analysis on fine-grained geo-semantics is of use to people's lives. For example, positive weibos posted in an area tagged with "food" may reflect high-quality restaurants.

Now I have completed a basic LSTM classifier to classify the weibos, and I am going deep into the model to make it work better. Besides, I also completed a simple overview about sentiment classification. I expect that it can be used to recommend areas based on people's needs.

### **Recognizing Datasets from Papers (2018.7-now)**

**Adviser: Ian Foster / Kyle Chard (Professor / Fellow, University of Chicago)**

Data plays an essential role in research. However, a lack of standards for data citation makes it difficult to discover relationship between publications and datasets. In fact, the Inter-university Consortium for Political and Social Research (ICPSR) even extracts the relationships between papers and datasets manually.

Datasets can be seen as named entities in sentences, and named entity recognition (NER) is a traditional task in NLP field. Therefore, we can regard datasets recognition as a NER task. I have implemented a deep learning model which is used to recognize the datasets in sentences. Some work for data preprocessing and candidate discrimination still needs to be done.

## **PUBLICATIONS**

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None

## **SELECTED COURSE**

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### **Mathematics:**

- Good grades in advanced mathematics and discrete mathematics.
- Learnt the background knowledge of many algorithms.
- Learnt how to build and analyze data models from econometrics.

### **Programming Ability:**

- Learned programming language: C++ (major), Java (for Android) and Python.
- Completed some projects in programming courses, including a Reversi game with GUI, a Pacman AI and a parallel version of K-nearest neighbors.
- Developed two Android apps in software engineering courses as a major programmer and group leader.

### **Core Courses in Computer Science:**

Computer Networks (88/100) with practice course (90/100)

Computer Architectures (91/100) with labs (90/100)

Operating Systems (92.5/100) with Nachos practice (87/100)

Software Engineering (95.5/100) with practice course (95/100)

- Learnt the basic knowledge of different areas in computer science.
- Completed adequate labs, including a RISC-V simulator, a cache simulator and Nachos labs, etc.

## **ENGLISH PROFICIENCY**

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TOEFL: Reading 29 Listening 27 Speaking 22 Writing 29 Total 107

GRE test: Verbal 155 Quantitative 170 AW: 3.5

Critical Thinking and Academic Writing Course (taught in English) (92/100)

## **EXTRACURRICULAR ACTIVITIES**

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Debate Team Member of the School of EECS	9/2015-Present
Office Director of the Youth League Branch in the School of EECS	9/2017-6/2018
Volunteer of Peking University's anniversary	05/2016
Volunteer of Peking University's sports meeting	04/2016