

# Pengyu Li

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## EDUCATION

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**Department of Physics, Tsinghua University**

*Bachelor of Mathematics and Physics*

Anticipated Graduation: July 2016

### **Anticipated Courses:**

Data Structure and Algorithm (86), Introduction to Machine Learning (92), Big Data System (A) (99), C++ Programming in Linux (excellent) etc.

**Professional Skills:** Java, C++, Python, R, MATLAB, SQL, Machine Learning Algorithms, Data Mining.

## SELECTED WORK

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### **Micro-nano optoelectronics Lab**

*Research Assistant*

Feb-Sep, 2014

- Worked in Prof. Wei Zhang's group and assisted with PhD student in group. Used professional softwares to build the model and compute independently.

### **Student Online Management System (Web)**

*Background programmer and logic designer*

Aug, 2014

- Used Java to build serve page and JavaScript to implement many functions. Designed the logic between functions and database. Built a whole system involving BBS, curriculum enroll and information management on Web.

### **Chinese Information Retrieve Program**

*Designer and programmer*

Nov-Dec, 2014

- Captured the web pages and extracted Chinese contents on pages. Designed the algorithm to use context of the content extracted and Chinese word dictionary to divide sentences to separate words.
- Used Jaccard Similarity to evaluate the object page's most similar pages in database and return the results.

### **Hospital Medicine Management System (software)**

*Designer and programmer*

Dec, 2014

- Designed the system logic and implement it using Oracle database. Finally accomplished a software with pretty GUI.

### **State Key Laboratory of Intelligent Technology and Systems**

Dec, 2014 - now

*Research Assistant*

- Work in Prof. Min Zhang's group and study on how to improve performance of state-of-art recommendation algorithms by using *Learning to Rank*'s method. Study on the project by myself and have got some good results.

## ADDITIONAL

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**Language:** Proficient in Mandarin, Good hand-writing and reading ability in English, Japanese as hobby.

**Volunteering and other student clubs:** As a leader in advertise group in department student union for one year. As a volunteer, joined the *Red Cross* in school and taught poor children computer skills in *Xiaojiaye primary school* which locates in remote area in Beijing for a semester.

**Interests:** Reading, watching movies and riding bicycle.