

# Kailang Jiang

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## Education

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### University of British Columbia

Vancouver, CA

*M.S. in Computer Science*

Sep.2014 ~ present

### Shanghai Jiao Tong University

Shanghai, PRC

*B.Eng. in Information Security*

Sep.2010 ~ Jun.2014

- Overall GPA: 86/100, Major GPA: 89/100, Rank: 9/93

## Working Experience

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### Teaching Assistant

Vancouver, CA

*University of British Columbia*, in the department of Computer Science

Sep.2014 ~ present

- TA for course CPSC 304 - *Introduction to Relational Database* in 2014 term 2
- TA for course CPSC 101 - *Connecting with Computer Science* in 2014 term 1

### Research Assistant

Shanghai, PRC

*Shanghai Jiao Tong University*, in Advanced Data and Programming Technology lab

May.2013 ~ May.2014

- Designed a method to compute basic semantic relatedness between Chinese concepts
- Built a concept association network from three online encyclopedias including Chinese Wikipedia
- Designed an algorithm to model the concept association process with Hidden Markov Model(HMM)
- Designed an algorithm to find the shortest path between concepts in the network

## Selected Awards

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- *International Partial Tuition Fee Scholarship* of University of British Columbia 2014
- *Honor Graduate Student* in Shanghai Province (**Top 1%**) 2014
- *Finalist Award* in Creative Recommendation System Competition hosted by Baidu, Inc. (**6 out of 800+**) 2013
- *Academic Excellence Scholarship* of Shanghai Jiao Tong University (**Top 10%**) 2011 & 2012 & 2013
- *Second Prize* in National Informatics Olympiad Competition in China 2010

## Selected Projects

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### Dynamic Advertisement and Video Recommendation System

- Built a tool to automatically **extract information** from some websites using **Java**
- Built a word similarity knowledge base from extracted text to support recommendation using **Java**
- Built a demo website interface of the recommendation system using **HTML, CSS, Javascript, JSP, Servlet**

### In Search of Influential Social Event Organizers

- Given data of a social network and the attributes of each node in the network, designed 3 algorithms to find a group of social event organizers that have those attributes required, and maximize their influence spread.
- Implemented the above-mentioned algorithms and simulation process in **C++** to achieve optimal organizers searching from given data.

### An online Question Answering System

- Built a multi-thread question answering server in **C** to handle multiple clients' questions
- Built a client able to send questions to the server and receive answers

### Spatial Data Analysis and Visualization

- Analyzed features of a set of spatial data, performed visualization and clustering on them using **Java**

## Skills

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- Proficient in **Java**, experienced in **C++**, **C**, **python**, **C#**, **R**, and familiar with web development skills (**HTML**, **CSS**, **Javascript**, **JQuery**, **JSP**, **Servlet**) and **SQL**