

Kailang Jiang

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Education

University of British Columbia

M.S. in Computer Science

Vancouver, CA

Sep.2014 ~ present

Shanghai Jiao Tong University

B.Eng. in Information Security

Shanghai, PRC

Sep.2010 ~ Jun.2014

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

Working Experience

Teaching Assistant

University of British Columbia, in the department of Computer Science

Vancouver, CA

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 Jiao Tong University, in Advanced Data and Programming Technology lab

Shanghai, PRC

May.2013 ~ May.2014

- Research area: data mining, natural language processing, machine learning
- Built a Chinese concept association network
- Built a dynamic advertisement and video recommendation system

Selected Awards

- *Honor Graduate* 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
- *Merit Student* of Shanghai Jiao Tong University (**Top 5%**) 2011
- *Second Prize* in National Informatics Olympiad Competition in China 2010

Selected Projects

Chinese Concept Association Network with HMM model

- Designed a method to compute basic semantic relatedness between Chinese concepts
- 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
- Built a concept association network from Chinese Wikipedia and implemented those algorithms using **Java**

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 three algorithms to find a group of social event organizers that have those attributes required, and maximize their influence spread.
- Implemented the algorithms and simulation process in **C++** to find optimal organizers from given data.

Spatial Data Analysis and Visualization

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

Skills

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