Jane Z. **Zhao**

Data Scientist

430-9009 Cornerstone Mews, Burnaby, British Columbia, Canada. V5A 0B9

778-859-7615 | zijinzhao0529@gmail.com | kyliewing | jane-zijin-zhao-2aa333135

"Wisdom is to the mind what health is to the body."

Education

Simon Fraser University — *B.C., Canada*

M.Sc. in Computing Science — *Sep. 2015 - Exp. Aug. 2017*

- Prof. Jian Pei's Intelligent Data Engineering and Analytics Lab (IDEAL)
- Cum. GPA: 3.73/4.33

Nankai University — *Tianjin, China*

B.Sc. in Computer Science and Engineering — *Sep. 2011 - Jul. 2015*

- Cum. GPA: 88.01/100; Ranking: 4/34

Technical Skills

Professional Domain Data Mining, Machine Learning, Statistics

Programming Python, C/C++, Matlab, SQL, R, Java, Android, HTML, CSS, JavaScript, Visual Basic, LaTeX

Databases Oracle, SQL Server, MySQL

IDEs Eclipse, Microsoft Visual Studio, SQL Server Management

Technical Work Experience

Pacific Blue Cross | BC Life — *B.C., Canada*

Computer Scientist Intern — *Jun. 2015 - Dec. 2015*

- Analyzed the Drug Claims Data Set and built a time-to-event prediction model for Pharmacy Services Department's data-driven decision making.
- Wrote SQL queries to extract essential data from the operational database and analyzed statistical features.
- Applied and tuned the time-to-event statistical prediction model in R and achieved high prediction accuracy.
- Gained experience and knowledge about data scientist field.

Sinotrans Limited — *Beijing, China*

Information Management Test Intern — *Aug. 2014 - Sep. 2014*

- Performed and analyzed tests on the Customer & Supplier Information Management Platform to identify potential problems.
- Analyzed initial log and reported the issues to feature designers to improve the quality of hand code.

Research

Research Subject: Noisy Label Classification Problem — *B.C., Canada*

Core Member & Researcher — *May. 2016 - PRESENT*

- Worked with Prof. Jian Pei to build a robust classifier on data with noisy labels and correct them simultaneously.
- Proposed a novel and robust classification algorithm based on Markov Chain to handle noisy data.
- Implemented the algorithm in MATLAB for base and speeded up versions.
- Resolved algorithm outperformed traditional Logistic Regression, SVM and other cutting-edge algorithms in terms of classification accuracy.

Research (Continued)

Research Subject: Finding K-Oppositive Cohesive Groups From Signed Networks — *B.C., Canada*

Member & Research Assistant — *Nov. 2015 - Feb. 2016*

- Supported the research team of five and proposed an algorithm to solve the novel problem which is finding K-oppositive cohesive groups from signed networks.
- Participated in case study portion of experiment and wrote Python scripts for mining data.
- Accomplished paper was published on the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining.

Research Subject: Compression Algorithm for Inverted Indexes of Search Engine — *Tianjin, China*

Research Assistant of Baidu-Nankai Joint Lab — *Jun. 2014 - Jun. 2015*

- Investigated and improved compression algorithms for inverted indexes of Search Engine.
- Designed three algorithms to enhance conventional Simple-16, 32-bit-mix-index and 64-bit compression algorithms to compress term position information in inverted indexes.
- Streamlined algorithms exceeded others in either compression effectiveness or decompression efficiency.

Project Experience

Missing Words Prediction - Data Mining - SFU — *B.C., Canada*

Programmer — *Nov. 2015 - Dec. 2015*

- Designed clustering and classification methods to predict missing word.
- Applied K-means, SVD and Associative Classification algorithms for clustering analysis and prediction.
- Finalized algorithm achieved 96.7% in terms of cluster analysis and 11.5% prediction improvement comparing to baseline algorithms.

Fast Circle (Your Social Assistant On Mobile Phone) - Personal Project — *Tianjin, China*

Project Leader — *Apr. 2013 - Mar. 2014*

- Developed an Android App that allows users to share contact information within a group automatically.
- Used Java on Android SDK platform to implement functional features.
- The App became popular and was widely used within campus.
- Applied software copyright for "Fast Circle".

Honors & Awards

International

2014	**Winner**, Google Anita Borg Scholarship	*Beijing, China*
2014	**Meritorious Winner**, 2014 Mathematical Contest in Modeling (MCM)	*Bedford, U.S.A*

Non-international

2015	**Winner**, CMPT Grad Felloship	*B.C., Canada*
2013	**Winner**, Top Ten Entrepreneurial Team of China Entrepreneurial Model into Tianjin and Chinese Youth Mobile Internet Business Competition Contest	*Tianjin, China*
2013	**Winner**, National Motivational Scholarship	*Tianjin, China*
2012	**Winner**, Merit Student of Nankai University	*Tianjin, China*