

Junnan Chen

(226) 978-2395
j486chen@uwaterloo.ca

EDUCATION & PROFESSIONAL EXPERIENCES **University of Waterloo** Sept 2015 - Present
Master Candidate, School of Compute Science, Thesis-based, Supervisor: Ming Li
Research Assistant in Natural Language Processing Lab.
Teaching Assistant for CS135, CS370.

University Of Waterloo Sept 2014 - Apr 2015
Undergraduate Exchange Program, School of Computer Science.

Tsinghua University Sept 2011 - Jul 2015
Bachelor of Engineering, Department of Computer Science and Technology.
Double major in Digital Design, School of Art.

TECHNOLOGY SKILLS **Programming Languages:** Java, Python, C++, JavaScript, HTML, CSS, SQL.

Technical expertise: Machine Learning Algorithms, Data Structures, Keras, TensorFlow.

RESEARCH EXPERIENCES **Chinese Named Entity Recognition in Query with Limited Data**
Research Project, Supervisor: Ming Li Oct 16 – Present

- Detection of named entities in a given short query and the classification of the named entity into a precise class.
- Built a hybrid model combining Weakly-Supervised LDA model with deep neural networks.
- Addressed the problem of lacking training data by implementing a novel application to extracting entities and precise classes using limited answered queries.

Chinese Microblogs and Stock Market Index Correlation Study
CS685 Machine Learning Course Project, U of Waterloo Mar 16 – Apr 16

- Proposed novel method to vectorize the sentiment data from Chinese microblogs.
- Constructed DNN model using Convolutional Neural Networks to verify that microblogs data are related to the stock market.
- Project implemented by Keras.

University of Waterloo Online Routing System
CS889 HCI Course Project, U of Waterloo Oct 15 – Dec 15

- Online Routing System provides in-building routes based on personal preferences across building groups.
- Mapping physical features of routes with human feelings (e.g. hurry, tired).
- Developed font end and back end with JavaScript, Html5 and Python individually.

Chinese Story Extraction from Large Document
Graduation Thesis, Supervisor: Ming Li Feb 15 – Apr 15

- Proposed Sentence Rank algorithm to determine the start / end sentences of Chinese stories in large document.

- Designed and implemented a Chinese Story Extraction method based on BM25, PageRank and Sentence Rank algorithms.
- Given a query, it can extract the related story correctly and efficiently from the large document.

WORK EXPERIENCES

Future Price Trend Prediction based on Deep Neural Networks

Quantum Cube Corporation, Machine Learning Researcher

Apr 16 – Sept 16

- Developed deep-learning algorithms in application to commodity future trading.
- Developed novel data labeling method which detects multi-scale trends and waves.
- Built neural networks combined multi-timescale LSTM layers and CNN layers to predict future trends.

Mobile Picture and Audio generator on Wechat Platform

Tencent Inc, Shenzhen. Software Developer

Jul 14 – Aug 14

- Established a real-time audio segmentation splicing process on Wechat platform.
- Established a picture hotspot display front end on Wechat platform.
- Designed and implement a Wechat Serve Chanel.

AWARDS

Provost Master's Entrance Award for Women

Award for outstanding full-time female students.

Year 2015

Jimin Liu Scholarship

Scholarship for exchange students from Tsinghua University to University of Waterloo

Year 2014