

JING CHEN

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EDUCATION

Carnegie Mellon University, School of Computer Science, Pittsburgh, PA Aug 2015-Dec 2016

Master in Intelligent Information System, Language Technologies Institute

Courses: Machine Learning (PhD-level), Algorithms for NLP (PhD-level), Search Engines

Nanjing University, Nanjing, China Sep 2011-Jun 2015

Bachelor in Computer Science in the *National Elite Program* (selected from over 500 undergraduates)

Rank: 1/20; GPA: 3.80/4 (90/100); Three *Elite Program Scholarships*; Graduated with University Honors

University of Oxford, Oxford, UK Aug 2014-Sep 2014

Participant of the *Natural Science Program* at Oxford Summer Institute

RESEARCH EXPERIENCE

Graduate Research Assistant, Language Technologies Institute Sep 2015-Present

Advisor: Professor Jamie Callan

Carnegie Mellon University, PA

Improving Entity Ranking with Knowledge Base

- Focusing on optimizing entity ranking using Learning to Rank framework, e.g. listwise approaches
- Performed entity ranking using Fielded Sequential Dependency Model on DBpedia and Freebase

Undergraduate Research Assistant, Natural Language Processing Lab Sep 2013-Jun 2015

Advisor: Associate Professor Xinyu Dai

Nanjing University, China

Question Classification with Multiple Kernel Learning (Undergraduate Thesis)

- Studied and implemented different tree kernels to integrate various syntactic features of question text
- Trained multi-kernel classifier based on MLK framework, which outperformed most single-kernel classifiers

SinaMicroblog-based Chinese Social Media Monitoring and Analysis

- Developed a fast crawler for retrieval, then analyzed and visualized social data using NLP & ML algorithms

SELECTED PROJECTS

Multi-Algorithm Search Framework (Search Engines) Sep 2015-Dec 2015

- Built a Java-based retrieval framework that consists of Boolean, BM25, Indri retrieval algorithms
- Handled multiple representations, query expansion, and Learning-to-Rank

Automatic Knowledge Learning System for Textbooks (Machine Learning) Sep 2015-Dec 2015

- Built a two-phase learning system to extract and understand knowledge directly from textbooks
- Applied machine learning models for system training and introduced First-Order Logic for representation

Compiler for Self-designed C- Language (Principles and Techniques of Compiler) Feb 2014-Jun 2014

- Designed and developed a compiler based on lex and yacc for the self-designed language C-
- Implemented modules, e.g. lexical&syntactic check, semantic analysis, intermediate and target code generation

NanOS Project (Operating System) Feb 2013-Jun 2013

- Designed and developed a micro-kernel operating system capable of executing user programs

Ontology Based Recommender System (National Undergraduate Innovative Project) May 2012-May 2013

- Developed an item-based collaborative movie recommendation system based on semantic ontologies

WORK EXPERIENCE

Undergraduate Course *Introduction to Computer System* Sep 2014-Jan 2015

Teaching Assistant

Nanjing University, China

- Assisted Professor Chunfeng Yuen preparing slides and guided sophomore in their course project

Startup: TBS Information Ltd.

Jan 2014-June 2014

Software Engineering Intern

Nanjing, China

- Extracted social media data from forums and analyzed them for user profile, clustering and other mining tasks.

SKILLS

Programming Languages C/C++, MATLAB, Python, Java, HTML5, L^AT_EX

Fundamental Knowledge Algorithm Design and Analysis, TCP/IP Network, Unix/Linux

AREAS OF INTEREST

Text Mining, Information Retrieval, Search, Machine Learning