Jingwei Zhang

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WORK EXPERIENCE

2012   **Data Mining Intern @Tencent(QQ) Inc.**

- *Unveiling the Unique Features of Tencent Weibo*
  Used Hadoop to process collected data of more than 320M users and 3.7B microblogs on a cluster of 36 servers. Studied Tencent Weibo from both macro and micro levels, discovered interesting difference between Tencent Weibo and Twitter.

- *User-level Microblog Recommendation based on Semi-Supervised Algorithm*
  Our group proposed a Factor Graph based microblog recommendation algorithm TSI-WR (Topic-Level Social Influence based Weibo Recommendation), outperformed several baseline methods. Responsible for data cleaning in the group.

ACADEMIC EXPERIENCE

2014   **Research assistant @CS, Columbia U**

- *Extracting the Social Network of the Taliban (ongoing)*
  Using natural language processing technique to perform social event extraction over a large tranche of newspapers and magazines produced by Taliban, aim to construct a mapping of the social network of the Taliban leadership.

2013   **Bachelor thesis @EE, THU**

- *Greedy Forwarding for Mobile Social Networks Embedded in Hyperbolic Spaces*
  Designed and evaluated a novel greedy message forwarding algorithm using metrics in hyperbolic spaces, obtained competitive performance in terms of message delivery ratio and cost. Poster presented in SIGCOMM'13.

2011   **Course project @EE, THU**

- *Terrain Classification Based on Wavelet Method*
  Used locally stationary wavelet as a feature extraction method for classifying Brodatz textures. and Google Earth data.

- *Music Transcription Using Gaussian Mixture Model and Beat Detection*
  Used beat detection (based on constant Q transform) and maximum likelihood estimation for music transcription.

2010   **Course project @EE, THU**

- *Test and Evaluation of Background Extraction Algorithms*
  Implemented some background extraction algorithms using C++, analyzed the applicabilities of each algorithm in varied conditions.

- *Vocabulary-building software*
  Designed an application using MFC and XML, integrated multiple words lists and dictionaries, aimed to enhance memorization speed.

EDUCATION

2013–   **MSc in Coumpter Science, 3.92**
MACHINE LEARNING TRACK
Columbia University, New York

2009–2013   **BSc in Electronic Engineering**
Tsinghua University, Beijing

CONTEST AND AWARDS

2013   **Rank 18th**
Kaggle Contest: Multi-label Bird Species Classification - NIPS 2013
Kaggle.com rank: 964th / 136,948 users

2010   **Rank 2nd** (team leader)
Baidu Cup Tsinghua Duishi AI Contest

2010   **Rank 3rd**
Tsinghua QuanHuang AI Contest

2009   **Rank 4th / ∼ 500,000 students**
National Physics Contest for high school students in China

SCHOLARSHIPS

2010   **Samsung Scholarship** (CNY 3,000)
Tsinghua University

2009   **School of Information Sci. and Tech. Scholarship** (CNY 20,000)
Tsinghua University

PUBLICATIONS

Jingwei Zhang. *Greedy forwarding for mobile social networks embedded in hyperbolic spaces*. SIGCOMM 2013: 555–556, poster.

Daifeng Li, **Jingwei Zhang**, Golden Guo-zheng Sun, Jie Tang, Ying Ding, Zhipeng Luo. *What is the Nature of Chinese MicroBlogging: Unveiling the Unique Features of Tencent Weibo*. arXiv:1211.2197.

SKILLS

GOOD LEVEL	R, C++, Matlab, Python, Hadoop, SQL, LaTeX, Vim
BASIC LEVEL	Java, Linux, Shell script, Git