

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.

REPRESENTATIVE PROJECTS

- *Antonym detection using deep word representations (ongoing).*
- *Bird song recognition using deep learning with implementation on iOS device (ongoing).*
- *Body temperature prediction, aims to speed up thermometer measurement.*
- *New York Times articles clustering using Latent Dirichlet Allocation.*
- *Terrain classification based on wavelet method.*
- *Music transcription using Gaussian Mixture Model and beat detection.*
- *Test and evaluation of background extraction algorithms.*
- *Vocabulary-building software.*

EDUCATION

2013– **MSc in Computer 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