

# Jingwei Zhang

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## WORK EXPERIENCE

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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

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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

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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

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2013 **Rank 18<sup>th</sup>**

*Kaggle Contest: Multi-label Bird Species Classification - NIPS 2013*

Kaggle.com rank: 964<sup>th</sup> / 136,948 users

2010 **Rank 2<sup>nd</sup>** (team leader)

*Baidu Cup Tsinghua Duishi AI Contest*

2010 **Rank 3<sup>rd</sup>**

*Tsinghua QuanHuang AI Contest*

2009 **Rank 4<sup>th</sup> / ~ 500,000 students**

*National Physics Contest for high school students in China*

## SCHOLARSHIPS

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

*Tsinghua University*

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

*Tsinghua University*

## PUBLICATIONS

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**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

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GOOD LEVEL R, C++, Matlab, Python, Hadoop, SQL,  $\text{\LaTeX}$ , Vim

BASIC LEVEL Java, Linux, Shell script, Git