

# Jingwei Zhang

## Résumé

### EDUCATION

- 2013– **MSc in Computer Science**  
MACHINE LEARNING TRACK  
Columbia University, New York
- 2009–2013 **BSc in Electronic Engineering**  
Tsinghua University, Beijing

### 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.

### PROFESSIONAL EXPERIENCE

- 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.

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### CONTEST

- 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

- 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, L<sup>A</sup>T<sub>E</sub>X, Vim

BASIC LEVEL Java, SQL, Linux, Shell script, Git