

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 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, L^AT_EX, Vim

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