

# Jingwei Zhang

## Resumé

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## Education

Current **Bachelor of Electronic Engineering**, *Tsinghua University*.

2009 **High school**, *No.2 High School of East China Normal University*.

## Experience

### Research experience

- Jul. 2012 **Detect the Unique Features of Tencent Weibo**
- Sep. 2012 Research Intern, Supervised by Prof. Jie TANG, @Dept. of CS & Tencent Co., Ltd.
- Used Hadoop to process collected data of more than 320M users and 3.7B microblogs;
  - Made analysis for Tencent user's different behaviors from both macro and micro level;
  - Made comparison with other social networks such as Twitter, Delicious and et al.
- Aug. 2012 **User-level Weibo Recommendation based on Semi-Supervised Algorithm**
- Dec. 2012 Research Intern, Supervised by Prof. Jie TANG, @Dept. of CS & Tencent Co., Ltd.
- Proposed a Factor Graph based weibo recommendation algorithm TSI-WR incorporating Social Influence with high accuracy;
  - Responsible for data cleaning in the group.
- Feb. 2010 **Test and Evaluation of Background Extraction Algorithms**
- Course Research, @Dept. of EE.
- Realized dominant background extraction algorithms with the C++ programming language;
  - Tested speed and robustness, analyze applicabilities of each algorithms in varied conditions.
- Sep. 2009 **An Intersection Evaluation Method Base on Pedestrians**
- Oct. 2009 Course Research, Group Leader, @Supervised by Prof. Xiqin WANG.
- Designed an intersection evaluation method, innovatively introduced dynamic model simulation;
  - Tested at five intersections in Beijing, proved high confidence of the method by comparing with survey results.

### Project experience

- Dec 2011 **Terrain Classification Based on Locally Stationary Wavelet Model**
- Realized locally stationary wavelet model in matlab.
  - Designed terrain classification algorithm, tested in Brodatz textures and Google Earth database with robust results.
- Dec 2011 **Music transcription method based on poisson point process model and beat detection**
- Improved point process MCMC method for music transcription with beat detection based on constant Q transform.
  - Reduced the computational complexity while accuracy rate almost unchanged.
- May 2010 **Vocabulary-building software**
- Application using MFC and XML, integrated Barron's word list, GRE/TOEFL word list and Merriam-Webster Dictionary.
  - Enhance vocabulary-building speed with laws of memory.

## Honors and awards

### Contest Awards

- 2010 **Frist Prize**, *Beijing Physics Contest for college students*.
- 2010 **Into the final**, *Tsinghua Electronic Design Contest*, team leader.
- 2010 **Rank 2<sup>nd</sup>**, *Baidu Cup Tsinghua Duishi AI Contest*, team leader.

2010 **Rank 3<sup>rd</sup>**, *Tsinghua QuanHuang AI Contest*.

2009 **Frist Prize**, *National Physics Contest for high school students*.  
**Rank 4<sup>th</sup>** all over China

### Scholarships

2010 **Samsung Scholarship**, *Tsinghua University*.  
CNY 3,000

2009 **School of Informaion Science and Technology Scholarship**, *Tsinghua University*.  
CNY 20,000

### Publications

Daifeng Li, **Jingwei Zhang**, Golden Guo zheng Sun, Jie Tang, Ying Ding, and Zhipeng Luo. What is the nature of tencent weibo: Detect the unique features of tencent users. To be submitted in WWW, 2013.

Daifeng Li, Ying Ding, Xin Shuai, Golden Guo zheng Sun, Jie Tang, Zhipeng Luo, **Jingwei Zhang**, and Guo Zhang. Topic-level opinion influence model(toim): An investigation using tencent micro-blogging. *PLOS ONE*, 2012.

Daifeng Li, Zhipeng Luo, Golden Guo zheng Sun, Jie Tang, and **Jingwei Zhang**. User-level weibo recommendation incorporating social influence based on semi-supervised algorithm. To be submitted in JASIST, 2012.

### Extracurricular activities

Volunteer KDD2012, Beijing

Volunteer 28<sup>th</sup> Challenge Cup

Member Tsinghua Ski Association

Member Tsinghua Science and Technology Association

### Standard tests

GRE Verbal: 155, Quantitaive: 170, Analytical Writing: 3.0

TOEFL Reading: 30, Listening: 30, Speaking: 22, Writing: 22

### Computer skills

Tools C/C++, Java, Matlab, verilog, Assembly

Environment Windows, Linux