Jingwei Zhang

157 W 106th St Apt 3D, New York, NY 10025

+1(347)821-1086 ◇ iceboal@gmail.com ◇ http://iceboal.com

WORK EXPERIENCE

2014 **SDE Intern @Amazon**

- *Feed and Report Platform Daily Flash*
  Use various AWS services and visualization techniques to automatically generate daily report of the usage of Amazon Marketplace Feed and Report Platform services, and provide a web portal for users to customize their daily email report.

2012 **Data Mining Intern @Tencent & THU**

- *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.

ACADEMIC EXPERIENCE

2014 **Research project @CS, Columbia U**

- *Word semantic representations using Bayesian Probabilistic Tensor Factorization*
  Introduced a Bayesian probabilistic tensor factorization model for synthesizing a single word vector representation and perperspective linear transformations from any number of word similarity matrices. Evaluated the word embeddings with GRE antonym questions, achieved the state-of-the-art performance. Paper accepted by EMNLP'14, project will be integrated in IBM Waston.

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.

- *Mention Network in the Enron Email Corpus*
  We introduced a novel mention network from emails, then demonstrated such network can help perdicting the organizational dominance in the Enron corporation.

REPRESENTATIVE PROJECTS

- *Acoustic bird species recognition app on iOS device (will be integrated in Birdsnap).*
- *Use Machine Learning to help Kinsa Inc. building their theormometer app.*
- *Greedy forwarding algorithm for mobile social networks embedded in hyperbolic spaces.*
- *Terrain classification based on wavelet method.*
- *Music transcription using Gaussian Mixture Model and beat detection.*

EDUCATION

2013– **MSc in Computer Science, 4.0**
MACHINE LEARNING TRACK
Columbia University, New York

2009–2013 **BSc in Electronic Engineering**
Tsinghua University, Beijing

CONTEST AND AWARDS

2014 **Rank 4th / 73 teams**
Amazon Global Intern Hackathon

2013 **Rank 18th**
Kaggle Contest: Multi-label Bird Species Classification - NIPS 2013
Kaggle.com rank: 964th / 136,948 users

2010 **Rank 2nd**
Baidu Cup Tsinghua Duishi 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, Jeremy Salwen, Michael Glass, Alo Gliozzo. *Word Semantic Representations using Bayesian Probabilistic Tensor Factorization*. To appear in EMNLP 2014.

Apoorv Agarwal, Adinoyi Omuya, **Jingwei Zhang**, Owen Rambow. *Enron Corporation: Youre the Boss if People Get Mentioned to You*. To appear in SocialCom 2014.

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   Java, Python, R, Matlab, C++, Hadoop, SQL, LaTeX, Vim

BASIC LEVEL   Linux, Shell script, Git, d3.js, angular.js