Yuan Yuan

1-308, FIT Building, Tsinghua University
100084, Beijing, P.R. China
+86 188 0010 3028
✉ yuany12@mails.tsinghua.edu.cn
🖥 yuany12.github.io

Education

2012–2016

B.Eng. in Computer Science, Tsinghua University, Beijing, P.R. China.
GPA: 93/100 (3.9/4.0) **Rank:** 1/116
Selected courses: Data Structures and Algorithms, Fundamentals of Programming, Computer Organization, Operating System, Software Engineering, Machine Learning, Information Retrieval

2013–2016

B.Ec. in Economics, Tsinghua University, Beijing, P.R. China.
Selected courses: Intermediate Microeconomics (Game Theory included), Econometrics, Intermediate Macroeconomics, Principles of Finance

Research Interests

My research interest focuses primarily on **data mining**, especially its **combination** with economics, linguistics and social sciences. Meanwhile, I am interested in **machine learning**, **natural language processing** and **information retrieval**.

Research Experience

Jul–Nov 2015

Big Data and Social Computing Lab, University of Illinois at Chicago, IL, USA.
Advisor: Prof. Philip S. Yu
— Research Assistant: Opinion Spam Detection on Location-Based Social Network
  - Showed signals aggregated from multiple review websites can provide effective and human-interpretable evidences than those from any single website
  - Exploited multiple review websites and proposing a bi-level pipeline, macroscopic to microscopic, for opinion spam detection
  - Designed time series patterns to detect suspicious time period and conducted experiments to demonstrate such suspicion
  - Summitted to International World Wide Web Conference (WWW'16) as first author

Nov 2014–present

Knowledge Engineering Group, Tsinghua University, Beijing, China.
Advisor: Prof. Jie Tang
— Research Assistant: Quality Analysis and Predication Official Accounts on Wechat
  - Predict popularity (number of followers) and impact (quality) of a new official account
  - Built a classifier with features of articles, account behaviors and social networks
— Research Assistant: Expert finding on Arnet Miner: An Academic Search Engine
  - Utilized word embedding to produce similar queries to extend the initial queries to increase recall
  - Built heterogeneous networks of queries, papers, authors and conferences

Jun-Jul 2015

Institute of HCI and Media Integration, Tsinghua University, Beijing, China.
Advisor: Prof. Jia Jia
— Professinal Training: Psychological Stress Detection on Social Media
  - Proposed features related to psychological stress from text (word embedding) and photos (image sentimental analysis)
  - Utilized social role of users to improve the model by clustering algorithm
  - Considered social relationship to predict status of inactive users

Sep-Dec 2014

National Engineering Laboratory of Next-Generation Internet and Interconnecting Equipment, Tsinghua University, Beijing, China.
Advisor: Prof. Youjian Zhao
- Challenge Project: Chinese Chat platform on FPGA
  - Only group that connects two FPGA platforms through serial communication
  - Proposed a simple typewriting to support chatting in Chinese
  - Awarded as the best project among all groups

May-Aug 2014

Information Retrieval Group, Tsinghua University, Beijing, China.
Advisor: Prof. Min Zhang
- Research Assistant: Long Tail Query on Search Engine
  - Utilized random walk on heterogeneous networks of queries and documents
  - Improved the efficiency of random walk in terms of data structures

Publications

[1] **Yuan Yuan**, Sihong Xie, Chun-ta Lu, Jie Tang and Philip S. Yu
M-square: An Opinion Spam Detection Framework using Multi-site Temporal Sentimental Patterns
WWW 2016: Submitted to 25th International Conference on World Wide Web

Selected Academic Honors & Awards

2015

CCF Outstanding Undergraduate Award.
- Only two students at Tsinghua University and approxiamately 100 in China receive this award each year
- Offered by China Computer Federation (CCF)

2014

National Scholarship of China.
- Only three students from Dept. Computer Science at Tsinghua University are awarded each year
- It is the top scholarship provided by Chinese government (Ministry of Education of P.R. China)

2013—present

Singapore Technology Engineering Overseas Scholarship.
- Only six students at Tsinghua University received this award
- Offered by Singapore Technologies Engineering Ltd

Professional Skills

Programming

Proficient in **C/C++**, **Java** and **Python**. Capable of **Matlab**, **Scala**, **VHDL/verilog**, **JavaScript**, **HTML/CSS**, **STATA** and **LaTeX**. **Github:** http://github.com/yuany12

.

English

Fluent in English Reading, Writing and Speaking

Services

2015

Reviewer of TKDD, Transactions on Knowledge Discovery from Data, Oct. 2015.

Aug 2013—Jan 2014

E-love Social Practice, Team Leader.
- Collected spare computers and established computer classrooms for schools of children of migrant workers, who had hardly used computers before
- Won Brand Practice Team Prize of Tsinghua University (top 10)

Jul—Aug 2013

Summer Service and Learning Program in Rural China, Team Leader.
- Volunteered to teach over 400 secondary students in rural China, with ten undergraduates from mainland China, Hong Kong and USA