

Qin Liu

CONTACT INFORMATION

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RESEARCH INTERESTS

Stream Mining, Distributed System, Data Mining, Artificial Intelligence and Algorithm Design

EDUCATION

[The Chinese University of Hong Kong](#) 2012 - Present

- Ph.D Student, Advanced Networking and System Research Laboratory, Department of Computer Science & Engineering
- I am advised by Prof. [John C.S. Lui](#) and Prof. [Patrick P. C. Lee](#).

[Shanghai Jiao Tong University](#) 2008 - 2012

- Bachelor of Science, [ACM Honored Class](#), Department of Computer Science & Engineering
- [ACM Honored Class](#) is a group of 26 top computer science students selected from entire university. The students in the ACM Honored Class are considered the **BEST** among all 150 students in the department.

RESEARCH EXPERIENCE

Feb 2012 - June 2012

Research Assistant at [MOE-Microsoft Key Laboratory of Intelligent Computing and System](#)

- Sketch-based Image Search System: [Painting-Finder](#), advised by [Liqing Zhang](#)

July 2011 - Feb 2012

Research Intern at [Tencent Inc.](#)

- Cloud-based Malware Detection System, advised by [John C.S. Lui](#)
We analyzed different kinds of malwares collected from the cloud-based anti-virus engine using IDA Pro, OllyDbg, PEid etc. We worked on the development of a static and dynamic software analysis platform to accelerate the process of malware analysis.

July 2010 - Jun 2011

Research Assistant at [Center for Brain-like Computing and Machine Intelligence](#)

- Brain Computer Interface and EEG Data Processing, advised by [Liqing Zhang](#)
We worked on EEG noise reduction and developed pattern classification methods for imaginary motion potentials using theory and methods of statistical learning and information geometry, such as PCA, ICA and SVM.

AWARDS & HONORS

1st place in KDD Cup 2012, Track 1 (Team ACMClass@SJTU)	2012
Silver Medal (38th place) in <i>National Olympiad in Informatics (NOI)</i> , China	2007
Academic Excellence Scholarship (2nd-prize), SJTU	2011

TEACHING EXPERIENCE

Teaching Assistant of <i>Introduction to Operating Systems</i> (CSCI3150), CUHK	Fall 2012
Teaching Assistant of <i>Machine Learning and Data Mining in Practice</i> , SJTU	Spring 2012
Teaching Assistant of <i>Project Workshop of Operating System</i> (CS371), SJTU	Fall 2011
Teaching Assistant of <i>Project Workshop of Compiler Principles</i> (CS370), SJTU	Spring 2011
Teaching Fellow of <i>Programming</i> (CS110), SJTU	Fall 2010
Teaching Assistant of <i>Practice of Programming and Coding Ability</i> , SJTU	Fall 2010
Teaching Assistant of <i>Data Structure</i> (CS102), SJTU	Spring 2010
Teaching Assistant of <i>Programming</i> (CS110), SJTU	Fall 2009

SELECTED PROJECTS

KDD Cup 2012, Track1 (Team `ACMClass@SJTU`, with Tianqi Chen, Linpeng Tang et al.)

- The task was predicting which users (or information sources) one user might follow in Tencent Weibo.
- Our team won the **1st place** in the track 1 of KDD Cup 2012 with the \$5000 cash prize and was invited to the ACM SIGKDD 2012.

Artificial intelligent Go player (with Linpeng Tang et al.)

Spring 2011

- The project was based on the course *Artificial Intelligence* advised by Liqing Zhang.
- The goal is implementing an computer player for the game of Go and our approach was based on Monte-Carlo tree search.
- Our project was ranked 1st among 12 groups and the project homepage is <http://code.google.com/p/iao-gim-ca/>.

Fatworm (with Linpeng Tang et al.)

Spring 2011

- The project was based on the course *Project Workshop on Database System Concepts* and the goal is implementing a Database Management System supporting millions of records, SQL with subquery, transactions, multi-user concurrent at a time, JDBC and remote access.
- Our project was scored 97, ranked 1st among 8 groups.

Tiger Compiler

Spring 2010

- The project was based on the course *Project Workshop of Compiler Principles* and it is a compiler for the programming language *Tiger*.
- Implemented all the phases of a complete compiler, starting from lexer and the target is MIPS instructions which can run on SPIM.
- My project was scored 97, ranked 3rd among 26 students and the project homepage is <http://code.google.com/p/lqhl-acm-tiger/>.

COMPUTER SKILLS

Programming Languages: C/C++, Java, Matlab, \LaTeX , SQL, Python, Delphi
Operating System: Linux (Ubuntu), Windows
Tools in Reverse Engineering: IDA Pro, OllyDbg etc.