

## Qin Liu

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RESEARCH INTERESTS	Distributed System, Network Monitoring, Machine Learning, Artificial Intelligence and Algorithms.	
EDUCATION	<div><div>The Chinese University of Hong Kong</div><div><ul style="list-style-type: none"><li>• Ph.D Student, Department of Computer Science &amp; Engineering</li><li>• Advised by Prof. John C.S. Lui and Prof. Patrick P. C. Lee.</li></ul></div></div> <div><div>Shanghai Jiao Tong University</div><div><ul style="list-style-type: none"><li>• Bachelor of Science, ACM Honored Class, Department of Computer Science &amp; Engineering.</li></ul></div></div>	<div>2012 - Present</div> <div>2008 - 2012</div>
RESEARCH EXPERIENCE	<div><div>Research Assistant</div>at MOE-Microsoft Key Laboratory of Intelligent Computing and System.<ul style="list-style-type: none"><li>• Sketch-based Image Search System: Painting-Finder, advised by Liqing Zhang.</li></ul></div> <div><div>Research Intern</div>at Tencent Inc.<ul style="list-style-type: none"><li>• 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.</li></ul></div> <div><div>Research Assistant</div>at Center for Brain-like Computing and Machine Intelligence<ul style="list-style-type: none"><li>• 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.</li></ul></div>	<div>Feb 2012 - June 2012</div> <div>July 2011 - Feb 2012</div> <div>July 2010 - Jun 2011</div>
AWARDS & HONORS	<div>1st place in KDD Cup 2012, Track 1 (Team ACMClass@SJTU)</div> <div>Silver Medal (38th place) in National Olympiad in Informatics, China</div> <div>Academic Excellence Scholarship (2nd-prize), SJTU</div>	<div>2012</div> <div>2007</div> <div>2011</div>
TEACHING EXPERIENCE	<div>Teaching Assistant of Data Communication and Computer Networks, CUHK</div> <div>Teaching Assistant of Introduction to Operating Systems, CUHK</div> <div>Teaching Assistant of Machine Learning and Data Mining in Practice, SJTU</div> <div>Teaching Assistant of Project Workshop of Operating System, SJTU</div> <div>Teaching Assistant of Project Workshop of Compiler Principles, SJTU</div> <div>Teaching Fellow of Programming, SJTU</div> <div>Teaching Assistant of Principle and Practice of Computer Algorithms, SJTU</div> <div>Teaching Assistant of Data Structure, SJTU</div> <div>Teaching Assistant of Programming, SJTU</div>	<div>Fall 2012</div> <div>Fall 2012</div> <div>Spring 2012</div> <div>Fall 2011</div> <div>Spring 2011</div> <div>Fall 2010</div> <div>Summer 2010</div> <div>Spring 2010</div> <div>Fall 2009</div>
SELECTED PROJECTS	<div>KDD Cup 2012, Track1 (Team ACMClass@SJTU, with Tianqi Chen, Linpeng Tang et al.)</div> <div><ul style="list-style-type: none"><li>• The task was predicting which users (or information sources) one user might follow in Tencent Weibo.</li><li>• 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.</li></ul></div> <div>Artificial intelligent Go player (with Linpeng Tang et al.)</div>	<div></div> <div></div> <div>Spring 2011</div>

- 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, L<sup>A</sup>T<sub>E</sub>X, Python, Delphi, Matlab, SQL  
Operating System: Linux, Windows  
Tools in Reverse Engineering: IDA Pro, OllyDbg etc.