Jiayu Zhang

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Research Interest

Everything about quantum, mainly on the theory: quantum computation, quantum information, quantum cryptography and so on.

Education

0	Boston University Ph.D Candidate in Computer Science, advised by Prof. Adam Smith	2017-Present
0	Pennsylvania State University Ph.D Candidate in Computer Science and Engineering, advised by Prof. Adam Smith	2016-2017
0	Tsinghua University Bachelor's degree in Software Engineering	2012-2016

ľ	Research Experience	
0	Pennsylvania State University & Boston University PhD Candidate & Research Assistant, advised by Prof. Adam Smith Research field: quantum cryptography	Sep 2016-Present
0	Tsinghua University Research Assistant, advised by Prof. Mingsheng Ying	Nov 2014-Jun 2016
	Research field: quantum computing theory related to quantum programming	

Honors and Achievements

Academic Excellence Award	2013 & 2014
o Tsinghua Comprehensive Engineering Capabilities Contest, First Prize(Group, Captain)	2015
Papers and Thesis	
Delegating Quantum Computation Using Only Hash Functions	2018
By Jiayu Zhang (arXiv:1810.05234)	
A Study on the Periodicity of Quantum Markov Chains By Jiayu Zhang, advised by Mingsheng Ying and Guiming Luo	2016
By Jiayu Zhang, advised by Mingsheng Ying and Guiming Luo	

Internships and Projects

(Undergraduate Thesis)

L	nternships and Projects		
	High Concurrency Online Ticket Selling and Message Push System	Fall 2014	
0	Group work together with Leiyu Zhao, Yanzhe Yang, et. al		
	The system was used by tens of thousands of people in Tsinghua. My work is to use nginx to implement high performance and high concurrency web load distribution module, which is a key part in the high concurrency server.		
	Content Based Image Classification Project	Spring 2014	
0	Group work together with Chengpeng Wang, Yanzhe Yang		
	We implemented an image classification program based on neural network and feature extraction.		

Work Experience

Teaching Fellow for Introduction to Computer ScienceTeaching Assistant for Data Structure and Algorithm

Spring 2017

Fall 2016

Skills

- o **Computer Technologies**: Machine Learning, Web Development, Mobile Development, Numerical Computing and so on
- o **Programming Laguages**: Assembly, C, C++, Java, C#, Python, JavaScript and many
- o Languages: Chinese(native), English

Hobbies

Chinese Chess(Xiangqi), Chess & Go
 Chinese Chess World Federation Master
 World Xiangqi(Chinese chess) Federation Open Tournament - the 3rd Place(Group)
 2d level on eweiqi(an online Go platform)

o Table Tennis, Piano