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

Research Experience

Sep 2016-Present
Nov 2014-Jun 2016

Research Assistant, advised by Prof. Mingsheng Ying
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

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0	Delegating Quantum Computation Using Only Hash Functions	2018
	By Jiayu Zhang	
	(On arxiv)	
0	A Study on the Periodicity of Quantum Markov Chains	2016
	By Jiayu Zhang, advised by Mingsheng Ying and Guiming Luo	
	(Undergraduate Thesis)	

Internships and Projects

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	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 conc	currency server.			
	Content Based Image Classification Project	Spring 2014			
	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 Competition - the 3rd Place(Group)
 2d level on eweiqi(an online Go platform)

o Table Tennis, Piano