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

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

Research Experience

Pennsylvania State University & Boston University	Sep 2016-Present
PhD Candidate & Research Assistant, advised by Prof. Adam Smith	
Research field: quantum cryptography	
Tsinghua University	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
Tsinghua Comprehensive Engineering Capabilities Contest, First Prize(Group, Captain)	2015

Papers and Thesis

Blind Quantum Computation and KDM Security in Quantum Random Oracle Model	2018
By Jiayu Zhang	
(Manuscript)	
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

High Concurrency Online Ticket Selling and Message Push System	Fall 2014
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
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 Science   Spring 2017
- Teaching Assistant for Data Structure and Algorithm   Fall 2016

Skills

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

Hobbies

- **Chess, Chinese Chess & Go**
  Chinese Chess Competition for University Students in Beijing – the 1st Place
  2d level on eweiqi(an online Go platform)
- Table Tennis, Piano