

## Qiang Zhang

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Department of Computer, Control, and Management Engineering  
Sapienza University of Rome  
Via Ariosto 25, 00185 Roma, Italy

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### EDUCATION

*Doctor of Philosophy*, Computer Science  
City University of Hong Kong      GPA 3.77      August 2009 - July 2013  
Supervisor(s): Prof. Xiaotie Deng, Dr. Minming Li  
RESEARCH INTERESTS - Game Theory, Mechanism Design, Algorithms

*Bachelor of Science*, Computer Science  
City University of Hong Kong      GPA 3.58      September 2005 - July 2009  
FIRST-Class Honors, SPECIALIST in Information Security

### CURRENT APPOINTMENT

*Post-doctoral Research Fellow*, Sapienza University of Rome      December 2015 - Present

### PREVIOUS APPOINTMENTS

*Post-doctoral Research Fellow*, MIMUW, University of Warsaw      September 2013 - November 2015  
Project I: Revenue Maximization

- developed efficient pricing algorithms to achieve optimal revenue in static and dynamic environment
- techniques include algorithm design, combinatorial optimization, graph theory, integer programming

Project II: Algorithmic mechanism design

- developed incentive compatible mechanisms for various problems, such as facility location, resource allocation, procurement and crowdsourcing.

*Visiting Postdoc Researcher*

Department of Computer Science, Sapienza University of Rome      October 2013 - November 2013, November 2014  
Host: Prof. Stefano Leonardi

*Visiting Researcher*

CITC, Department of Computer Science, Aarhus University      March 2013 - May 2013  
Host: Prof. Peter Bro Miltersen

*Visiting Predoctoral Fellow*

EECS, Northwestern University      January 2011 - June 2011  
Host: Prof. Jason Hartline

### HONORS

- Dean List Scholar - College of Science and Engineering, City University of Hong Kong      2005-2009
- Mr. Chan Tai Ho Scholarship - City University of Hong Kong      2005

## PROFESSIONAL EXPERIENCE

*Programmer*

June 2007 - July 2008, Full-Time

Hong Kong Monetary Authority, Hong Kong SAR

Supervisors: Mr. Chen Chung-li, Analyst and Fan Chi-mo, Manager

Providing technical supports for Enhanced Prudential Supervision System and Financial Management System upgrade projects, including:

- Solaris operating system and Oracle database upgrades support
- Server hardware installation and configuration
- System maintenance, System testing and documentation, troubleshooting and daily backup
- UNIX programming by Shell Script
- Developing Oracle Form and Excel VBA applications for in-house use

## PRACTICAL SKILLS

- Operating System: Windows, Unix, Linux
- Programming: C, C++, Java, Python, Visual Basic, Shell Script
- Internet Application Development: HTML, Java Script, JSP, PHP
- Database: SQL Server, MySQL, Oracle
- Document Preparation: LaTeX

## PUBLICATIONS

1. Marek Cygan, Marcin Mucha, Piotr Sankowski, and Qiang Zhang, "Online Pricing with Impatient Bidders". The 27th ACM-SIAM Symposium on Discrete Algorithms (SODA), 2016.
2. Gianpiero Monaco, Piotr Sankowski and Qiang Zhang, "Revenue Maximization Envy-free Pricing for Homogeneous Resources", The 24th International Joint Conference on Artificial Intelligence (IJCAI), 2015.
3. Minming Li, Jialin Zhang and Qiang Zhang, "Deterministic Truthful Cake Cutting Mechanisms with Externalities: Do not make them care for others too much!", The 24th International Joint Conference on Artificial Intelligence (IJCAI), 2015.
4. Aris Filos-Ratsikas, Minming Li, Jie Zhang and Qiang Zhang, "Facility Location with Double-peaked Preferences", The 29th AAAI Conference on Artificial Intelligence (AAAI), 2015.
5. Riccardo C. Baldeschi, Stefano Leonardi, Piotr Sankowski and Qiang Zhang, "Revenue Maximizing Envy-free Fixed Price Auctions with Budgets", The 10th Conference on Web and Internet Economics (WINE), 2014.
6. Marek Adamczyk, Piotr Sankowski and Qiang Zhang, "Efficiency of Truthful and Symmetric Mechanisms in One-sided Matching", The 7th International Symposium on Algorithmic Game Theory (SAGT), 2014.
7. Qiang Zhang and Minming Li, "Strategyproof mechanism design for facility location games with weighted agents on a line", Journal of Combinatorial Optimiazation 28(4): 756-773 (2014).
8. Qiang Zhang, Weiwei. Wu, and Minming. Li, "Minimizing the total weighted completion time of fully parallel jobs with integer parallel units", Theoretical Computer Science 507(7): 34-40 (2013).
9. Qiang Zhang, Weiwei Wu and Minming Li, "Resource Scheduling with Supply Constraint and Linear Cost", The 6th Annual International Conference on Combinatorial Optimization and Applications (COCOA), 2012.
10. Qiang Zhang, Minming Li, "Truthful Auction for CPU Time Slots", The 4th International Frontiers of Algorithmics Workshop (FAW), 2010.

## PROJECTS PARTICIPATION

1. Foundational Research on MULTIllevel comPLEX networks and systems European Commission (MULTIPLEX) under The Seventh Framework Programme (FP7).