

# Yijia Xu

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OBJECTIVE	Master of Science candidate seeking a full-time position in application development.	
EDUCATION	<b>McGill University</b> , Montréal, QC, Canada	
	M.Sc., School of Computer Science	expected Fall 2011
	• CGPA: 3.61/4.00	
	<b>Beijing University of Posts and Telecommunications</b> , Beijing, China	
	B.Eng., School of Electrical Engineering	received June 2009
	• Ranked 23/120 in Electrical Engineering	
	• CGPA: 3.60/4.00	
RESEARCH AND TEACHING	<b>Research Assistant at McGill University</b>	
	• Used dynamic game theoretic models to compare the advantages of using three ID types in internet systems: fixed ID, pseudonym, and social ID.	
	• Used MATLAB to solve difference equations of game theoretic models and visualize results.	
	<b>Research Assistant at Beijing University of Posts and Telecommunications</b>	
	• Developed novel game theoretic non-cooperative power allocation scheme for wireless systems.	
	• Simulations showed that the proposed model improves users' data rate by 50% compared to existing models.	
	<b>Teaching Assistant</b>	
	• Introductory Java Programming (Comp 202)	Fall 2010 and Fall 2011.
	• Introductory Operating Systems (Comp 310)	Spring 2010 and Spring 2011.
SELECTED GRADUATE PROJECTS	<b>Online Travel Itinerary Booking System</b>	Fall 2009
	• Used Java to implement a 3-tier transaction management architecture.	
	• Communication between tiers was implemented using a RMI-based custom protocol.	
	• Used two phase commit and shadowing to guarantee fault-tolerance.	
	<b>Compiler Designs</b>	Fall 2009
	• Implemented parser and scanner for the TINY language using flex and bison.	
	• Extended the Joos compiler with stack limit calculation, intermediate representation optimization.	
	• Built a compiler for the WiG language using SableCC.	
SKILLS	Java, C, Matlab; sql, HTML, JavaScript, Python, assembly language. OOP, distributed systems, computer networks, compiler. Algorithms and data structures, Game theory. Windows and Linux.	
PUBLICATIONS AND THESIS	Teng, Y. and Song, M. and Zhang, Y. and Xu, Y. and Song, J. Hierarchical game theory analysis in subscribers cooperative relaying network with OFDMA orthogonal channels. In <i>Communications Technology and Applications, 2009. ICCTA '09. IEEE International Conference on</i> , pages 664–670, 2009.	
	Yijia Xu <i>A Game Theory Based User Relaying Power Allocation Scheme in OFDMA System</i> . B.Sc. Thesis, 39 pages.	
AWARDS	<b>McGill University</b>	
	• Dean Provost's Entrance Scholarship	Fall 2009
	<b>Beijing University of Posts and Telecommunications</b>	
	• Departmental scholarship	Fall 2006-08
	• Excellent volunteer during 2008 Beijing Olympic Games	Fall 2008
LANGUAGE	Proficient in written and spoken English; Mandarin.	