

# Kaiwen Zhang

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Born: October 7, 1987---Beijing, China

Nationality: Canadian

## Current position

*Doctoral Candidate*, Department of Computer Science, University of Toronto

## Areas of specialization

Distributed systems; Event processing; Publish/subscribe; Online games.

## Education

2010-... DOCTOR of Computer Science, University of Toronto  
2008-2010 MASTER'S of Computer Science, McGill University  
2005-2008 BACHELOR's of Computer Science, McGill University

## Grants, honors & awards

2014-2015 Doctoral Completion Award (\$8,000)  
2013-2014 Bell Graduate Scholarship(\$20,000)  
2013-2014 Ontario Graduate Scholarship (\$15,000 declined for BGS)  
2011-2013 FQRNT B2 (\$46,667)  
2009-2010 NSERC CGS M (\$17,500)  
2009-2010 FQRNT B1 (\$15,500 declined for CGS M)  
2008-2009 McGill Principal's Graduate Fellowship (\$8,000)  
2008 BSc. Graduated with Great Distinction, Dean's Honour List (GPA: 3.94/4.00)  
2007 NSERC USRA (\$4,500)  
2006-2007 McGill McConnell Award (\$1,000)

## Work & teaching experience

2014	SOFTWARE CONSULTANT: Code review for a patent litigation lawsuit for Hewlett-Packard.
2013-2014	HEAD TEACHING ASSISTANT: Undergraduate system design course with 350 students.
2013	TELUS INTERN: Design and implementation of a DoS mitigation system using OpenFlow.
2011-2012	TEACHING ASSISTANT: Undergraduate system design course.
2009-2010	TEACHING ASSISTANT: Undergraduate database course.
2008-2009	DATABASE DESIGNER: Collection of 19 <sup>th</sup> century poetry anthologies data.
2008	TEACHING ASSISTANT: Undergraduate Java programming course.

## Selected publications & talks

### CONFERENCE PUBLICATIONS

2015	Pandey N., Zhang K., Weiss S., Jacobsen H-A., Vitenberg R. “Minimizing the Communication Cost of Aggregation in Publish/Subscribe Systems”, <i>IEEE ICDCS '15, to be published</i>
2014a	Cañas C., Zhang K., Kemme B., Kienzle J., Jacobsen H-A. “Publish/subscribe network designs for multiplayer games”, <i>ACM Middleware '14</i> , 241-252
2014b	Pandey N., Zhang K., Weiss S., Jacobsen H-A., Vitenberg R. “Distributed Event Aggregation for Content-based Publish/Subscribe Systems”, <i>ACM DEBS '14</i> , 95-106
2013	Zhang K., Sadoghi M., Muthusamy V., Jacobsen H-A. “Distributed Ranked Data Dissemination in Social Networks”, <i>IEEE ICDCS '13</i> , 369-379
2012	Zhang K., Muthusamy V., Jacobsen H-A. “Total Order in Content-based Publish/Subscribe Systems”, <i>IEEE ICDCS '12</i> , 335-344
2011	Zhang K., Kemme B. “Transaction Models for Massively Multiplayer Online Games”, <i>IEEE SRDS '11</i> , 31-40

### INVITED TALKS

2013	Zhang K., Sherafat R., Yoon Y., Jacobsen H-A. “SDN-Like: A Network-as-a-Service Publish/Subscribe Model”, <i>IBM F2C2</i>
2012	Zhang K., “Language expressiveness and quality of service for publish/subscribe systems”, <i>ACM Middleware PhD Symposium '12</i>

## Service to the profession

### INVITED REVIEWER

TPDS 2014; TSC 2014-15.

### META-REVIEWER

Middleware 2011-14; DEBS 2011,2013,2015; VLDB 2012-13; ICDCS 2012-13,2015; DAIS 2012; HPCA 2013; TOC 2013-14; TWEB 2013; TPDS 2013; TOIT 2013; TKDE 2014.

Last updated: March 24, 2015