

# Alice (Aili) Zou

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## Education

**McMaster University** MASTER IN COMPUTER SCIENCE

2015 - 2016 *Hamilton, Canada*

**McMaster University** VISITING STUDENT IN THE DEPARTMENT OF COMPUTING AND SOFTWARE

2014 - 2015 *Hamilton, Canada*

**Harbin Engineering University** COMBINED PH.D IN CONTROL THEORY AND CONTROL ENGINEERING

2009 - 2014 *Harbin, China*

**Harbin Engineering University** B.ENG IN ELECTRICAL ENGINEERING AND AUTOMATION

2005 - 2009 *Harbin, China*

## Highlighted Qualifications

- Highly motivated; good problem solving, time management and communication skills
- Solid computer science knowledge and programming skills
- Good team player

## Work Experience

**McMaster University**

*Hamilton, Canada*

TEACHING ASSISTANT

*Jan. 2016 - Apr. 2017*

## Professional Skills

**Programming** Python, Java, C/C++/ VC++, Matlab, Maple, Android development, Javascript, Unity, HTML, CSS, SQL,  $\text{\LaTeX}$

**Photo editing** Photoshop

**Presenting/Teaching** Education 750: Principles and Practices of University Teaching. (Certificate in 2015 from McMaster)

## Publications

Aili (Alice) Zou and Douglas Down. "Asymptotically maximal throughput in tandem systems with flexible and dedicated servers". In: *European Journal of Operational Research* (2018). Close to submission. In preparation.

Liyuan Feng, Xuliang Yao, Ran Cao, and Aili Zou. "Complex system brittleness relative entropy and its application in a distributed system". In: *Control and Decision* (Jan. 2015).

Hongzhang Jin, Aili Zou, Xuliang Yao, and Yanli Zhang. "Cascading failure evaluation of ship automatic fire alarm system based on fuzzy expert system". In: *Ship Engineering* (Oct. 2014).

Hongzhang Jin, Aili Zou, and Ran Cao. "Ship fire-fighting system cascading failure analysis based on complex network". In: *2012 IWMST Conference* (Aug. 2012).

Hongzhang Jin, Lixin Pan, and Aili Zou. "Water surface robotic rolling model and anti-rolling control strategy". In: *DaLian Maritime Transaction* (Jan. 2010), pp. 1-4.

## Talks

**CanQueue 2016 Conference, McMaster University**

*Hamilton, Canada*

ASYMPTOTICALLY MAXIMAL THROUGHPUT IN TANDEM SYSTEMS WITH FLEXIBLE AND DEDICATED SERVERS

*Aug. 2016*

## Patents

Hongzhang Jin and Aili Zou. "Modeling method of determining crucial sub-systems of ship fire-fighting system based on complex network". ZL 2013 1 0131914.7 (China). Status: Authorized. First inventor is supervisor. Feb. 25, 2015.

Hongzhang Jin and Aili Zou. “Cascading failure assessment method for distributed intelligence ship fire-fighting system”. CN103440728A (China). Status: Public. First inventor is supervisor. Dec. 11, 2013.  
 Hongzhang Jin and Aili Zou. “Ship fire-fighting system cascading failure assessment based on complex network”. CN103235876A (China). Status: Public. First inventor is supervisor. Aug. 7, 2013.

## Software Copyright

**Ship cabin cascading failure analysis software (v1.0)** AUTHORIZATION NO.: 2013SR071138

July 22, 2013 *China*

## Honors & Awards

2016	<b>Keith Leppmann Teaching Assistance Excellence Award</b> , McMaster University	<i>Hamilton, Canada</i>
2009-2014	<b>Annual First Prize Graduate Fellowship of Harbin Engineering University</b> , Harbin Engineering University	<i>Harbin, China</i>
2009	<b>Excellent Bachelor Degree Dissertation</b> , Harbin Engineering University	<i>Harbin, China</i>

## Service and Outreach

### Engineering Graduate Society (EGS), McMaster University

*Hamilton, Canada*

STUDENT LIFE AND INTERNATIONAL OFFICER, AS A REPRESENTATIVE OF COMPUTING AND SOFTWARE (CAS)

2016

### Life In Computing & Software (LICS), McMaster University

*Hamilton, Canada*

CO-FOUNDER AND INTERNAL/EXTERNAL VICE-PRESIDENT

2016

- club for improving the study and life of graduate students in CAS department

### Graduate Curriculum and Policy Committee (GCPC), McMaster University

*Hamilton, Canada*

MEMBER AS A REPRESENTATIVE OF CAS DEPARTMENT FOR THE SCHOOL OF GRADUATE STUDIES

2016-2017

### International Graduate Student Advisory Group (IGSAG), McMaster University

*Hamilton, Canada*

COMMITTEE MEMBER, AS A STUDENT REPRESENTATIVE FOR THE SCHOOL OF GRADUATE STUDIES

2016-2017

### President's Advisory Committee on Building an Inclusive Community (PACBIC), McMaster University

*Hamilton, Canada*

GENERAL MEMBER

2016-2017

## Volunteering

2016	<b>Volunteer</b> , Halloween for Hunger, visiting the neighborhood collecting canned goods to be donated to the hungry	<i>Hamilton, Canada</i>
2016	<b>Volunteer</b> , Fall Preview Open House (Department Showcase); informing prospective students and parents about CAS program and student life.	<i>Hamilton, Canada</i>