

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, \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	Keith Leppmann Teaching Assistance Excellence Award , McMaster University	<i>Hamilton, Canada</i>
2009-2014	Annual First Prize Graduate Fellowship of Harbin Engineering University , Harbin Engineering University	<i>Harbin, China</i>
2009	Excellent Bachelor Degree Dissertation , 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	Volunteer , Halloween for Hunger, visiting the neighborhood collecting canned goods to be donated to the hungry	<i>Hamilton, Canada</i>
2016	Volunteer , Fall Preview Open House (Department Showcase); informing prospective students and parents about CAS program and student life.	<i>Hamilton, Canada</i>