June Zhang

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EDUCATION

Carnegie Mellon University, Pittsburgh, Pennsylvania, USA

Doctor of Philosophy (Ph.D.) in Electrical and Computer Engineering — Aug 2010 – Dec 2015

- Thesis: Network Process: How Topology Impacts the Dynamics of Epidemics and Cascading Failures
- Adviser: José M.F. Moura
- Research areas: Network science, complex systems, stochastic process, signal processing

Stanford University, Stanford, California, USA

Master of Science (M.S.) in Electrical Engineering — Sep 2005 – Jun 2008

Georgia Institute of Technology, Atlanta, Georgia, USA

Bachelor of Science (B.S.) in Electrical and Computer Engineering — Aug 2002 – May 2005

- Graduated Summa Cum Laude

EXPERIENCE

University of Hawai'i at Mānoa

Assistant Professor, Electrical Engineering Department — Jan 2017 – current

Centers for Disease Control and Prevention (CDC)

ORISE Research Fellow, Division of Viral Hepatitis — Feb 2016 – Dec 2016

PUBLICATIONS

JOURNALS

4) J. Zhang, J.M.F. Moura, "Cascading edge failures: a dynamic network process," *under review*.

3) J. Zhang, J.M.F. Moura, "Contact process with exogenous infection and the scaled SIS process," *Journal of Complex Networks, in print*.

2) J. Zhang, J.M.F. Moura, "Roles of subgraphs in network epidemics under the scaled SIS process," *Journal of Complex Networks*, vol. 3, no. 4, pp. 330–352, Mar 2015.

1) J. Zhang, J.M.F. Moura, "Diffusion in social networks as SIS epidemics: beyond full mixing and complete graphs," *IEEE Journal of Selected Topics Signal Processing on Social Networks*, vol. 12, no. 4, pp. 330–352, Jun 2014.

CONFERENCES & WORKSHOPS

10) J. Zhang, J.M.F. Moura, "Spectral radius and network processes with spontaneous infection/failure rate," in *Proc. of the 4th IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Washington DC, USA, Dec 2016.

10) J. Zhang, J.M.F. Moura, "Finding unique dense communities," in *Proc. of the 41st International Conferences on Acoustics, Speech, and Signal Processing (ICASSP)*, Shanghai, China, Mar 2016.

9) J. Mohammadi, J. Zhang, S. Kar, G. Hug, J.M.F. Moura, "Multilevel distributed approach for DC optimal power flow," in *Proc. of the 3rd IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Orlando, USA, Dec 2015.

8) J. Zhang, J.M.F. Moura, "Individual vs. network preferences," in *Proc. of the 49th Asilomar Conference on Signals, Systems and Computers (Asilomar)*, Orange Grove, USA, Nov 2015.

7) J. Zhang, J.M.F. Moura, "Dynamic bond percolation in networks," in *Proc. of the 2nd IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Atlanta, USA, Dec 2014.

6) J. Zhang, J.M.F. Moura, "Subgraph density and epidemics over networks," in *Proc. of the 39th International Conferences on Acoustics, Speech, and Signal Processing (ICASSP)*, Florence, Italy, May 2014.

5) J. Zhang, J.M.F. Moura, "Threshold behavior of epidemics in regular networks," in *Proc. of the 38th International Conferences on Acoustics, Speech, and Signal Processing (ICASSP)*, Vancouver, CA, May 2013.

4) J. Zhang, J.M.F. Moura, "Epidemic process on fixed networks," in *1st IEEE/ACM Workshop on Signal Processing Advancement in Sensor Networks*, Philadelphia, CA, May 2013.

3) J. Zhang, J.M.F. Moura, "Accounting for topology in spreading contagion in non-complete networks," in *37th Proc. of the IEEE International Conferences on Acoustics, Speech, and Signal Processing (ICASSP)*, Kyoto, Japan, Mar 2012.

2) J. Zhang, "LightCast: a tangible user interface creativity support tool for visual design," in *Proc. of 2006 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)*, Orange County, USA, Mar 2006.

1) K U-Yen, M. Ahn, J. Zhang, J.S. Kenney, "Effects of microwave switch isolation on a butler matrix beamforming network in smart antenna systems," in *Proc. of Radio and Wireless Conference (RAW)*, Atlanta, USA, Mar 2004.

ACADEMIC HONORS & AWARDS

Oak Ridge Institute for Science and Education postdoc fellowship	2016 – 2017
Microsoft Azure Research Award	2015 – 2016
CMU 3-Minute Thesis Competition Semifinal winner	2014
National Science Foundation (NSF) Graduate Research Fellowship	2005 – 2008
Georgia HOPE Scholarship	2001 – 2005
Georgia Tech President's Undergraduate Research Award	2004 – 2005
IEEE Atlanta Chapter Scholarship	2003