

Yoon-Sik Cho

CONTACT INFORMATION	Information Sciences Institute University of Southern California 4676 Admiralty Way Marina del Rey, CA 90292 USA	<i>Voice:</i> (213) 399-5923 <i>Fax:</i> (310) 822-0751 <i>E-mail:</i> yoonsikc@usc.edu <i>WWW:</i> www.isi.edu/people/yoonsik
RESEARCH INTERESTS	Approximate inference and constrained optimization Large-scale computational system Social network analysis: dynamic networks, low-dimensional representation of users and items Spatial-temporal point process: Inference and learning, spatial-temporal prediction	
EDUCATION	University of Southern California , Los Angeles, California USA Ph.D. Student, Electrical Engineering, - Present <ul style="list-style-type: none">• Advisor: Aram Galstyan M.S., Electrical Engineering, Aug 2008 Seoul National University , Seoul, Korea B.S., Electrical Engineering, Feb 2003	
HONORS AND AWARDS	GSS 2012 Best Paper Award, USC ISI graduate student symposium, 2012 SDM 2012 Travel Award, 2012 Nomination for USC EE Research Festival Best Paper Award, 2011 AAAI-11 Travel Grant, 2011 GSS 2010 Best Poster - runner up, USC ISI graduate student symposium, 2010 ETEP Scholarship, Electric Power Industry Technology Evaluation & Planning, Korea, 2006	
ACADEMIC EXPERIENCE	Institute of Pure & Applied Mathematics, UCLA , Los Angeles, California, USA <i>Academic Mentor</i> June 2014 - Present Research in Industrial Projects for Students Assist students with “Long-term Crime Forecasting & Setting Crime Reduction Targets” project. University of Southern California , Los Angeles, California, USA <i>Teaching Assistant</i> August 2011 - December 2011 Design and Construction of Large Software Systems Duties at various times have included office hours and reviewing monthly report.	
PROFESSIONAL EXPERIENCE	Qualcomm , San Diego, California, USA <i>Engineering Intern</i> , Corporate R&D June 2013 - August 2013 Context Analysis and Reasoning Green Information & Communication Corp. , Seoul, Korea <i>Software Engineer</i> April 2004 - April 2006 Projects include developing multi-viewer software, digital broadcasting stream analyzer. Mapis Corp. , Seoul, Korea <i>Software Engineer</i> January 2003 - March 2004 Joined national project (Korea) building a GIS tool for National Oceanographic Research Institute.	

PUBLICATIONS

Cho, Y. S., Steeg, G. V., and Galstyan, A.
Mixed Membership Blockmodels for Dynamic Networks with Feedback.
Submitted to invited book chapters.

Cho, Y. S., Steeg, G. V., and Galstyan, A.
Where and Why Users “Check In”.
In Proc. of the Twenty-Eighth Conference on Artificial Intelligence (AAAI-14), 2014.

Cho, Y. S., Galstyan, A., Brantingham, P.J., and Tita, G. E.,
Latent Self-Exciting Point Process Model for Spatial-Temporal Networks.
In Discrete and Continuous Dynamical Systems - Series B (DCDS-B), 2014. [Link]

Cho, Y. S., Steeg, G. V., and Galstyan, A.
Socially Relevant Venue Clustering from Check-in Data.
In KDD Workshop on Mining and Learning with Graphs, 2013. [Link]

Cho, Y. S., Galstyan, A., Brantingham, P. J., and Tita, G. E.
Latent Point Process Models for Spatial-Temporal Networks, 2013. [Link]

Cho, Y. S., Galstyan, A., Brantingham, P. J., and Tita, G. E.
Generative Models for Spatial-Temporal Processes with Applications to Predictive Criminology.
In 9th Bayesian Modeling Applications Workshop (UAI-12), 2012. [Link]

Cho, Y. S., Steeg, G. V., and Galstyan, A.
Co-evolution of Selection and Influence in Social Networks.
In Proc. of the Twenty-Fifth Conference on Artificial Intelligence (AAAI-11), 2011. [Link]

Cho, Y. S., Steeg, G. V., and Galstyan, A.
Co-Evolving Mixed Membership BlockModels.
In NIPS workshop on Networks Across Disciplines, 2010. [Link]

PRESENTATIONS
AND TALKS

Co-evolving Network of US Senators
Machine Learning talk at Qualcomm corporate R&D, San Diego, August 2013.

Latent Point Process Models for Spatial-Temporal Networks
Workshop on Information in Networks(WIN), New York, September 2012.

Generative Models for Spatial-Temporal Processes with Applications to Predictive Criminology (oral presentation)
9th Bayesian Network Modeling Workshop (UAI-12), Catalina Island, August 2012.

Oral presentation at crime forecasting session
The 32nd Annual International Symposium on Forecasting, Boston, June 2012.

Generative Models for Relational Spatial-Temporal Data
Doctoral Forum SDM 2012, Anaheim, April 2012.

Generative Models for Spatial-Temporal Processes (oral presentation)
MURI Stochastic Processes Meeting, UCLA, Los angeles, February 2012.

Co-evolution of Selection and Influence in Social Networks
Twenty-Fifth Conference on Artificial Intelligence (AAAI-11), San Francisco, August 2011.

COMPUTER SKILLS • Languages: C++, Java, and R

REFERENCES Professor Aram Galstyan galstyan@isi.edu
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Professor Jeffrey Brantingham branting@ucla.edu
Anthropology, UCLA
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