

Sungjin Ahn

CONTACT INFORMATION	Department of Computer Science Donald Bren School of Information and Computer Sciences University of California, Irvine 4059 Donald Bren Hall Irvine, CA 92697-34, USA		sungjia@ics.uci.edu http://www.ics.uci.edu/~sungjia 949-390-3226
RESEARCH INTERESTS	Statistical machine learning algorithms for Big Data, Bayesian inference, and probabilistic graphical models with applications in computer vision, natural language processing, data mining. Current Focus: Scaling up Bayesian inference for Big Data: MCMC using stochastic mini-batches and/or parallelization		
EDUCATION	Ph.D., University of California, Irvine Computer Science, Sep 2010 ~ 2015 (Expected) <ul style="list-style-type: none">• Advisor: Max Welling• GPA: 3.98/4.0 M.S., Korea Advanced Institute of Science and Technology (KAIST) Computer Science, Mar 2006 <ul style="list-style-type: none">• <i>Magna Cum Laude</i>• GPA: 4.03/4.3 (96%), ranked 2nd out of 80 graduates in 2006 B.S., Korea Aerospace University Computer Engineering, Mar 2004 <ul style="list-style-type: none">• GPA: 3.98/4.5 (94%)		
HONORS AND AWARDS	2012	Best Paper Award, International Conference on Machine Learning (ICML 12)	
	2010–2014	Dean's Fellowship, Donald Bren School of Information and Computer Sciences, UCI	
	2006	Outstanding Paper Award for <i>Mosaic Localization for WSN</i> in the 2 nd International RFID/USN Conference	
	2005	Outstanding Paper Award <i>Proactive Context-Aware Sensor Networks</i> in the 1 st International RFID/USN Conference	
	2004 – 2006	BK21 Scholarship from Korea Research Foundation	
INDUSTRY EXPERIENCE	12/2006–06/2010	Researcher at Agency for Defense Development (developed a software for an intelligent tactical navigation system and its user modeling AI part)	
TEACHING EXPERIENCE	Fall 2012	Teaching Assistant, <i>Project in AI</i>	
	Summer 2012	Teaching Assistant, <i>Undergraduate Summer Research in Machine Learning (Ensemble Learning)</i>	
	Spring 2012	Teaching Assistant, <i>Collaborative Filtering</i>	
	Spring 2006	Teaching Assistant, <i>Special Topics on Robotics</i>	
	Fall 2006	Teaching Assistant, <i>Microprocessor + Lab</i>	

GRADUATE COURSEWORK	<div><div><input type="checkbox"/> Machine Learning</div><div><input type="checkbox"/> Bayesian Statistics</div><div><input type="checkbox"/> Image Understanding</div><div><input type="checkbox"/> Scientific Computing</div><div><input type="checkbox"/> Convex Optimization (Audit)</div><div><input type="checkbox"/> Research Topic in Computer Vision</div></div> <div><div><input type="checkbox"/> Probability and Random Process</div><div><input type="checkbox"/> Linear Programming</div><div><input type="checkbox"/> Pattern Recognition Theory</div><div><input type="checkbox"/> Queueing Theory</div><div><input type="checkbox"/> Algorithms</div></div>
RELEVANT SKILLS	Programming: Matlab, R, C, C++, Java, Python OS: Linux, Unix, Windows Languages: English, Korean
PUBLICATIONS	S. Ahn , A. Korattikara, and M. Welling, <i>Bayesian Posterior Sampling via Stochastic Gradient Fisher Scoring</i> , ICML 2012, Best Paper Award
TECHNICAL REPORTS	<i>Pilot Decision Support System for Tactical Military Aircrafts</i> , Agency for Defense Development, 2009
TALKS	<i>Bayesian Posterior Sampling using Stochastic Mini-batches for Big Data</i> , ID Analytics Inc., 2012. <i>Bayesian Posterior Sampling vis Stochastic Gradient Fisher Scoring</i> , invited talk for sub-area spotlight track in Machine Learning, AAAI, 2012. <i>Decision Support Systems for Military Aircrafts</i> , Agency for Defense Development, 2009.
RESEARCH PROJECTS	<div><div>04/2012–Present</div><div>Developed an algorithm for parallelized adaptive MCMC (UCI)</div></div> <div><div>04/2011–03/2012</div><div>Developed a scalable posterior sampling algorithm using stochastic mini-batches (UCI)</div></div> <div><div>09/2010–03/2011</div><div>Generalized belief propagation on structured region graph (UCI)</div></div> <div><div>08/2007–06/2010</div><div>Research on pilot decision support system and intelligent tactical navigation (ADD)</div></div> <div><div>12/2006–11/2008</div><div>Developed an algorithm for ground collision avoidance in terrain referenced navigation using particle filtering (ADD)</div></div> <div><div>02/2004–11/2006</div><div>Developed energy efficient routing protocols for automatic networking of tiny wireless sensors (KAIST)</div></div>
REFERENCES	Available upon request
LAST UPDATE	Jan. 5, 2013