

Sean Chang

OBJECTIVE	To offer my proficiency in data analysis and machine learning in a professionally challenging environment.	
CONTACT INFORMATION	Ph.D. Candidate Department of Statistical Science Duke University, Box 90251 Durham, NC 27708-0251, U.S.A.	<i>Citizenship:</i> U.S. Permanent Resident <i>Mobile:</i> (609) 375-8415 <i>Email:</i> sean.chang@duke.edu <i>Website:</i> linkedin.com/in/seanschang
EDUCATION	Ph.D. , Statistical Science; Duke University , Durham, NC, U.S.A. Est. 2015 Field: Bayesian Statistics. Advisor: Prof. Jim Berger M.A. , Mathematics Duke University , Durham, NC, U.S.A. 2011-2013 Field: Probability. Qualifying exam committee: Prof. Richard Durrett B.S. , Mathematics, National Taiwan University , Taipei, Taiwan 2006-2010	
EXPERTISE	<ul style="list-style-type: none"> <i>Statistics: Bayesian Data Analysis, Machine Learning, Bayesian Nonparametrics, Markov Chain Monte Carlo, Map-Reduce</i> <i>Mathematics: Probability Theory, Stochastic Calculus, Stochastic Processes, Partial Differential Equations, Real and Complex Analysis,</i> <i>Programming skills: Matlab, R (JAGS, ggplot2), Python, C++, Scalding, Linux, L^AT_EX</i> 	
EXPERIENCE	Statistical and Applied Mathematical Science Institute (SAMSI) , NC Summer 2013 <ul style="list-style-type: none"> <i>Modern Statistical & Computational Methods for Analysis of Kepler Data:</i> A 3-week workshop with statisticians, NASA scientists and astronomers leading by Prof. Eric Ford on developing new analysis techniques of high dimensional exoplanet data from Kepler mission. <i>Industrial Mathematical & Statistical Modeling Workshop:</i> Modeling trends and incidence rates of Sexually Transmitted Diseases in the US with Bayesian hierarchical model and spatial statistics, supervised by Dr. Howard Chang (Emory) and Dr. Simone Gray (CDC). <i>Low-dimensional Structure in High-dimensional Systems summer school:</i> Studied recent advancements of analyzing big data and complicated structures in the fields of machine learning and genetic association studies. Department of Mathematics, Duke University , Durham, NC Fall 2012 <ul style="list-style-type: none"> <i>Instructor:</i> Taught Math111L (Calculus), managed the work of teaching assistants and a grader, received good course evaluations with overall score of 4.0/5.0. 	
PUBLICATIONS AND WORK IN PROGRESS	<ul style="list-style-type: none"> (With J. Berger) "Comparison of Bayesian and frequentist multiplicity correction under a scenario of data dependence", submitted to <i>the Annals of Statistics</i>. (With A. Brouwer, et al.) "Burden of Chlamydia in the United States: Trend Analysis of Incidence Rates" Nineteenth Mathematical and Statistical Modeling Final Report, p.77-109. 2013. (With J. Berger) "Bayesian multiple testing in sequential clinical trials". In preparation. (With DB. Dunson) "Nonparametrics Bayes learning in online advertising ". In preparation. (With B. Engelhardt) "Bayesian structured model in Multiple Tissue eQTL Analysis". 	
AWARDS AND HONORS	<i>Dean's Award</i> , National Taiwan University 2009-2010 <i>Study Abroad Scholarship</i> , Ministry of Education, Taiwan 2011-present <i>Duke Reader Project</i> , Duke University 2013 Fall	
EXTRA-CURRICULAR ACTIVITIES	Member of <i>International Society for Bayesian Analysis (ISBA)</i> 2013-present <i>Statistical Science Journal Club</i> , Duke University 2013-present <i>Varsity Table Tennis Team</i> , National Taiwan University 2006-2008	