Sean Chang

CONTACT INFORMATION	TOTHINGIL.	To offer my proficiency in data analysis and machine learning in a professionally challenging environment.		
INFORMATION	Ph.D. Candidate		Permanent Resident	
INFORMATION	Department of Statistical Science Mobile: (609)			
	Duke University, Box 90251	Email: sean.chang@duke.edu		
	Durham, NC 27708-0251, U.S.A. Website: linkedin.com/in/seanschang			
EDUCATION	Ph.D. , Statistical Science; Duke University , Durham, NC, Field: Bayesian Statistics. Advisor: Prof. Jim Berger	, U.S.A.	Est. 2015	
	M.A. , Mathematics Duke University , Durham, NC, U.S.A Field: Probability. Qualifying exam committee: Prof. Rich		2011-2013	
	B.S. , Mathematics, National Taiwan University , Taipei, T		2006-2010	
EXPERTISE	• Statistics: Data Analysis, Machine Learning, Bayesian Nonparametrics, Markov Chain Monte Carlo, Map-Reduce			
	• Mathematics: Stochastic Processes, Stochastic Calculus, Probability Theory, Partial Differential Equations, Real and Complex Analysis			
	• Languages: Matlab, R (JAGS, ggplot2), Python (NumF LATEX	Py, SciPy), C++, SQ	L, Scalding, Linux,	
EXPERIENCE	 Statistical and Applied Mathematical Science Institute (SAMSI), NC Summer 2013 Modern Statistical & Computational Methods for Analysis of Kepler Data: 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. 			
	• Industrial Mathematical & Statistical Modeling Workshop: 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).			
	• Low-dimensional Structure in High-dimensional Systems summer school: Investigated 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 Instructor: 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	 (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 Inci- 			
	 dence Rates" Nineteenth Mathematical and Statistical Modeling Final Report, p.77-109. 2013. (With J. Berger) "Bayesian multiple testing in sequential clinical trials". In revision. (With DB. Dunson) "Sparse factor model with the application in ecology". In preparation. (With B. Engelhardt) "Bayesian structured model in Multiple Tissue eQTL Analysis". 			
	• (With B. Engelhardt) "Bayesian structured model in Mul	ttipie Tissue eQTL A	Analysis".	
AWARDS AND	Dean's Award, National Taiwan University		2009-2010	
HONORS	Study Abroad Scholarship, Ministry of Education, Taiwan Duke Reader Project, Duke University		2011-present 2013 Fall	
EXTRA-	Member of International Society for Bayesian Analysis (IS	SBA)	2013-present	
CURRICULAR ACTIVITIES	Statistical Science Journal Club, Duke University Varsity Table Tennis Team, National Taiwan University		2013-present 2006-2008	