## **Sean Chang**

CONTACT INFORMATION	Ph.D. Candidate Department of Statistical Science	Citizenship: U.S. Permanent Reside Mobile: (609) 375-8415
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Education	<b>Ph.D.</b> , Statistical Science; <b>Duke University</b> , Durham, N Field: Bayesian Statistics. Advisor: Prof. Jim Berger	NC, U.S.A. Est. 20
	<b>M.A.</b> , Mathematics <b>Duke University</b> , Durham, NC, U.: Field: Probability. Qualifying exam committee: Prof. R	
	B.S., Mathematics, National Taiwan University, Taipe	i, Taiwan 2006-20
EXPERTISE	• Statistics: Data mining, Machine Learning, Bayesian Nonparametrics, Markov Chain Monte Carlo, Stochastic Simulations, Map-Reduce	
	<ul> <li>Mathematics: Quantitative Finance, Stochastic Calculus, Stochastic Processes, Probability Theory, Partial Differential Equations</li> </ul>	
	• Languages: Python, C++, Matlab, R (JAGS, ggplot2)	, SQL, Scalding, Linux, LATEX
EXPERIENCE	<ul> <li>Statistical and Applied Mathematical Science Institute (SAMSI), NC</li> <li>Summer 2013</li> <li>Modern Statistical &amp; 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.</li> </ul>	
	• 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.	
	<ul> <li>Department of Mathematics, Duke University, Durha</li> <li>Instructor: Taught Math111L (Calculus), managed the received good course evaluations with overall score or</li> </ul>	e work of teaching assistants and a grad
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 Incidence 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".	
Awards and Honors	Dean's Award, National Taiwan University	2009-20
	Study Abroad Scholarship, Ministry of Education, Taiw	
	Duke Reader Project, Duke University	2013 F
	SAS Statistics Fellow, SAS Institute Inc. (offered but de	clined) 2014 M
EXTRA-	Community outreach, Brogden Middle School, Durham	, NC 2014-prese
CURRICULAR	Member of International Society for Bayesian Analysis	(ISBA) 2013-prese
ACTIVITIES	Statistical Science Journal Club, Duke University	2013-prese
	Vargity Table Tannis Team National Taiwan University	2006.20

2006-2008

Varsity Table Tennis Team, National Taiwan University