

Iain Carmichael

CONTACT	<i>Email:</i> iain@unc.edu <i>GitHub:</i> idc9	<i>website:</i> http://iaincarmichael.web.unc.edu/
EDUCATION	The University of North Carolina , <i>Chapel Hill, NC</i> Ph.D. Statistics, Department of Statistics and Operations Research Advisors: J.S. Marron , Shankar Bhamidi	August 2014 - Present
	Cornell University , College of Arts and Sciences, <i>Ithaca, NY</i> B.A. Mathematics, Cum Laude B.A. Physics, Cum Laude	May, 2014
COURSEWORK	Machine Learning, Probability, Bayesian Statistics, Algorithms, Optimization	
SKILLS	Programming Languages: Python, R, L ^A T _E X Statistical Techniques: Classification, Network Science, MCMC, PCA, Probabilistic Programming	
RESEARCH EXPERIENCE	Research Assistant , STOR Department, UNC, <i>Chapel Hill, NC</i> - Support Vector Machine in high dimensional settings - stochastic processes and temporally evolving networks - dimensionality reduction for multi-layered network observations - applications in neuroscience and law	Spring 2016 - Present
	Research Scientist , Gamalon Machine Intelligence, UNC, <i>Cambridge, MA</i> - research on problems in probabilistic programming - contributed to the development of Chimpy, a probabilistic programming language in Python	May 2016 - August 2016
	Research in Industrial Projects for Students , UCLA, <i>Los Angeles, CA</i> - participated in NSF sponsored research program at the Institute for Pure and Applied Mathematics - designed and analyzed satellite regional coverage algorithms for the Aerospace Corporation	Summer 2012
	CUSat Engineering Project Team , Cornell Space System Design Studio, <i>Ithaca, NY</i> - readied communication hardware and software in preparation for satellite launch	Fall 2011
TEACHING EXPERIENCE	Instructor , STOR 390: Introduction to Data Science, <i>Chapel Hill, NC</i> - grant from Data@Carolina initiative to design undergraduate data science course - https://idc9.github.io/stor390/	Spring 2017
	Graduate Research Consultant , Department of Journalism, UNC, <i>Chapel Hill, NC</i> - Taught R and data science skills to journalism students - JOMC 390: Data Journalism	Spring 2016 Spring, 2016
PROJECTS	Court Listener , <i>Chapel Hill, NC</i> - empirical legal research using network science and natural language processing - supervised team of 5 undergraduate students - https://github.com/idc9/law-net/	Spring 2016 - Present