RONALD KWAN

Email	rkwan@berkeley.edu	**Phone**	(510) 552-7837
Website	http://rskwan.github.io/	**LinkedIn**	https://www.linkedin.com/in/ronaldkwan
Interests	Machine learning and computational statistics, computational biology and neuroscience		
Skills	Python, Java, Scala, C, C++, HTML, CSS, JavaScript, MATLAB, R, SQL, LaTeX		

Education

UC Berkeley (Berkeley, CA)   *Graduation*: 05/2016
B.A. Computer Science, Mathematics, and Statistics   *GPA*: 3.650 (cumulative), 3.907 (CS)

Research

Carnegie Mellon University (Pittsburgh, PA)   *Supervisor*: Cosma Shalizi   05/2015 – *present*
Statistical network analysis of functional connectivity via fMRI, using an analysis pipeline written in Python and C.
UC Berkeley (Berkeley, CA)   *Supervisor*: Thomas L. Griffiths   02/2015 – *present*
Modeling of wishful thinking of agents in Markov decision processes, with simulations written in Python.
UC Berkeley (Berkeley, CA)   *Supervisor*: Rasmus Nielsen   02/2014 – *present*
Efficient chi-squared testing of genomic data, using Scala and Spark for distributed computing.
Georgia State University (Atlanta, GA)   *Supervisor*: Robert Harrison   05/2014 – 07/2014
Development of a classification algorithm using multiobjective optimization and Pareto voting, written in Python.
UC Berkeley (Berkeley, CA)   *Supervisor*: Laurent El Ghaoui   09/2013 – 12/2013
Processing and analysis of PDF news articles using optical character recognition (OCR) and bash shell scripting.

Employment

Qualcomm Inc. (Boulder, CO)   **Engineering Intern**   06/2013 – 08/2013
Integrated an XML store for configuration settings in mobile Linux C libraries, enabling cross-platform compatibility.
Sandia National Labs (Livermore, CA)   **Technical Intern**   06/2012 – 08/2012
Implemention of digital signatures to ensure authenticity and integrity of data in modelling software, written in Java.

Teaching

UC Berkeley (Department of EECS)   **CS 61A Group Tutor**   01/2015 – 05/2015
Tutoring a group of students in CS 61A (introductory computer science for majors) and giving coding feedback.
UC Berkeley (Department of EECS)   **CS 61A Tutor/Lab Assistant**   09/2014 – 12/2014
Helping students understand concepts of introductory computer science, in both one-on-one and group settings.

Other Experience

UC Berkeley (Department of EECS)   **Computer Science Peer Advisor**   09/2014 – *present*
Advising students on academic and logistical issues related to the computer science program at UC Berkeley.
Berkeley Math Tournament   **Chief Technology Officer**   09/2012 – *present*
Leading development of web apps used in K-12 math contests, built with Python and Django. (bmt.berkeley.edu)