

RONALD KWAN

Email rkwan@berkeley.edu **Phone** (510) 552-7837 **Website** <http://rkwan.me/>
Interests Machine learning and computational statistics, computational biology and neuroscience
Skills Python, Java, C, HTML, CSS, JavaScript, MATLAB, R, SQL, L^AT_EX

Education

UC Berkeley (Berkeley, CA) *Graduation:* 05/2016
B.A. Computer Science, Mathematics, and Statistics *GPA:* 3.65 (cumulative), 3.91 (CS)

Research

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.
Carnegie Mellon University (Pittsburgh, PA) *Supervisor:* Cosma Shalizi 05/2015 – 07/2015
Statistical network analysis of functional connectivity via fMRI, using an analysis pipeline written in Python.
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
Implementation of digital signatures to ensure authenticity and integrity of data in modelling software, written in Java.

Teaching

UC Berkeley (Department of EECS) **CS 70 Reader/Tutor** 09/2015 – *present*
Grading assignments and tutoring students for CS 70 (discrete mathematics and probability).
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)