RONALD KWAN

Email ronaldskwan@gmail.com Phone (510) 552-7837 Website http://rkwan.me

Interests Artificial intelligence and machine learning, especially applied to the biological and social sciences.

Tools Python, JavaScript, Java, MATLAB, R, SQL, LATEX

Education

UC Berkeley (Berkeley, CA)

B.A. Computer Science, Mathematics, and Statistics

GPA: 3.63 (cumulative), 3.91 (CS)

Research

UC Berkeley (Berkeley, CA) Supervisor: Thomas L. Griffiths 02/2015 - 12/2015 Modeling and simulations of wishful thinking of agents in Markov decision processes. [Python, SciPy stack] 05/2015 - 07/2015 Carnegie Mellon University (Pittsburgh, PA) Supervisor: Cosma Shalizi Network analysis of functional connectivity in fMRI with a novel measure of coordination. [Python, SciPy stack] Georgia State University (Atlanta, GA) Supervisor: Robert Harrison 05/2014 - 07/2014 Developed an ensemble method for data classification using multiobjective optimization. [Python, SciPy stack] **UC Berkeley** (Berkeley, CA) Supervisor: Laurent El Ghaoui 09/2013 - 12/2013 Automated processing and analysis of PDF news articles using optical character recognition (OCR). [bash]

Employment

Qualcomm Inc. (Boulder, CO) Engineering Intern 06/2013 – 08/2013 Improved cross-platform compatibility for OS libraries, replacing hardcoded settings with configuration files. [C] Sandia National Labs (Livermore, CA) Technical Intern 06/2012 – 08/2012 Ensured data integrity and authenticity, by integrating digital signatures into simulation software. [Java]

Teaching and Service

UC Berkeley (Department of EECS) Computer Science Peer Advisor 09/2014 - 12/2015 Advising students on academic and logistical issues related to the computer science program at UC Berkeley. UC Berkeley (Department of EECS) CS 70 Reader/Tutor 09/2015 - 12/2015 Grading assignments and tutoring students in CS 70, Discrete Mathematics and Probability Theory. UC Berkeley (Department of EECS) **CS 61A Group Tutor** 01/2015 - 05/2015 Tutoring and giving coding feedback for students in CS 61A, Structure and Interpretation of Computer Programs. 09/2014 - 12/2014 UC Berkeley (Department of EECS) CS 61A Tutor/Lab Assistant Teaching students concepts of introductory computer science, in both labs and individual tutoring sessions. UC Berkeley (Department of EECS) CS 161 Reader 02/2014 - 05/2014 Grading assignments for CS 161, Computer Security.

Other Experience

Atomic Grader

Software Developer

12/2015 - present

Web app for efficient crowdsourced online exam grading. [JavaScript, Meteor, React] (http://atomicgrader.com)

Berkeley Math Tournament

Chief Technology Officer

09/2012 - present

Leading development of web apps used in K-12 math contests. [Python, Django] (http://bmt.berkeley.edu)

Personal Technical Projects

O9/2012 - present

Adventures in data analysis and web development. [Python, R, JavaScript] (http://rkwan.me/projects/)