RUTH GRACE WONG

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EDUCATION

Masters of Science	Computational Biochemistry, University of Western Ontario expected to graduate in April 2016
Bachelor of Medical Science	Computational Biochemistry, University of Western Ontario Dean's Honors List, Western Gold Medal, 2014

SKILLS

Programming and Scripting	Java, R, Python, C++, JavaScript, MatLab, LaTeX, Bash, Perl
Relevant Courses	Data Structures, Analysis of Algorithms, Software Engineering Software Tools and Systems Programming, Discrete Math

PROJECTS

Masters Thesis	Created custom DNA analysis pipeline to study role of gut microbiome in fatty liver disease and atherosclerosis. Developed techniques to measure difference between samples.
MedSavant pathway view (Google Summer of Code)	Displays biological processes affected by genetic variants. Java program with JavaScript visualization Used by physicians at Toronto SickKids hospital.
Hack Western	Ran a 500 student, 36 hour hackathon. Directed a team of 16 students to do sponsorships and logistics.

EXPERIENCE

Software Engineer (Site Reliability) Intern - Google NYC

May 2015 - August 2015

· Implemented early detection system for compaction failures in cloud storage segments across a dozen data centers worldwide.

Summer Lab Assistant - Egan Lab, SickKids Hospital, University of Toronto

October 2009 - August 2012

· Conducted experiments involving mouse autopsies, sequencing, and tumor classification.
· Part-authored two papers published in Cancer Research.

Research Assistant - Grahn Lab and Pirouz Lab, University of Western Ontario

October 2011 - April 2013

· Wrote E-Basic script in E-Prime to research gambling, music, and prosocial behavior
· Generated stimuli in MatLab, wrote E-basic script for user-conditioned experiments

ACM International Collegiate Programming Contest - University of Western Ontario

September 2010 - November 2014

· Selected to compete for Western on 3 man team from 2010 to 2013, coding in Java.
· Coached team in 2014 and 2015.