

# Chantal Ho

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## EDUCATION

### Hons BSc., 4th year Bioinformatics and Computational Biology Specialist

University of Toronto, Toronto, ON

Sep 2015 - Jun 2019

## WORK EXPERIENCE

### Research Student

Benjamin Haibe-Kains Lab, Toronto, ON

May 2017 - Aug 2018

- PharmacoDB: all data visualizations, database maintenance/optimization, and UI/UX improvements using d3.js, Ruby on Rails and MySQL. (<http://pharmacodb.pmgenomics.ca>)
- Drug Network Fusion: data visualizations using d3.js and Cytoscape.js, and various UI features (<http://dnf.pmgenomics.ca>)
- Drug annotation/curation and maintenance of PharmacoGx in R (<https://github.com/bhklab/pharmacogx>)

### Research Project Student

Parkinson Lab, SickKids Research Institute

Sep 2017 - Apr 2018

- Literature review of optimal metagenomic pipelines for functional and taxonomic annotations of genes using R and Python
- Determining their consistency and accuracy for further prediction by processing/statistically analyzing microbial datasets derived from stool samples of Crohn's disease patients who have received fecal microbiome transplants using various bioinformatic tools (HUMAnN2 pipeline, Cluster3.0, TreeView, STAMP)

### Research Project Student

Provart Lab, University of Toronto

Sep 2016 - May 2017

- Created an ePlant Navigator phylogenetic tree using d3.js, JS, jQuery for ePlant (<http://bar.utoronto.ca/eplant>)

### Volunteering/Other

High School - First Year

2012 - 2016

- Summer work-study: improving pedagogical methods in the UofT Human Biology Dept
- Volunteer veterinary assistant at the Bridletowne-Warden Animal Hospital
- Toronto Public Library Youth Advisory Groups, Leading to Reading Volunteer

## SKILLS

*Languages* JavaScript (d3, jQuery, NodeJS, Express), Ruby on Rails, Python, R, HTML/CSS, MySQL, Java, C  
*Software/Tools* Git/Github, Unix(Bash)/Linux, LaTeX, Adobe Photoshop/Illustrator

## PUBLICATIONS, PRESENTATIONS, AWARDS

**PharmacoDB: an integrative database for mining in vitro anticancer drug studies 2018** Nucleic Acids Research  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5753377/>

**Integrative cancer pharmacogenomics to infer large-scale drug taxonomy 2017** Cancer Research  
<http://cancerres.aacrjournals.org/content/early/2017/03/17/0008-5472.CAN-17-0096>

**PharmacoDB: an integrative database for mining pharmacogenomic datasets 2018** BioConductor Conference  
Attended the 2018 BioConductor Conference at the University of Toronto and presented my poster on PharmacoDB.

**ARCT Performance Degree, Grade 9 Gold Medal 2015** Royal Conservatory of Music  
Recognized for the highest mark in Ontario for my grade 9 piano practical exam