

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