

# Chantal Ho

Github: chuntul || Email: [chantalc.ho@mail.utoronto.ca](mailto:chantalc.ho@mail.utoronto.ca)

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## **Education**

Current Education:

Bioinformatics and Computational Biology Specialist and Statistics Minor, 3rd year at the University of Toronto (St. George Campus).

Previous Education:

Victoria Park Collegiate Institute, OSSD Recipient and Ontario Scholar

Related Courses Taken:

Linear Algebra I | Probability with Computer Applications | Statistics for Computer Science

Other Courses:

Algorithm Design, Analysis and Complexity | Data Structures and Analysis | Software Tools/Systems Programming | Programming on the Web | Intro to Theory of Computation | Software Design | Mathematical Expression and Reasoning for Computer Science

## **Experiences - Related**

**Research Project Course Student – Parkinson Lab**

**September 2017 – April 2018**

- Researching and identifying optimal metagenomic pipelines for functional and taxonomic annotation of genes, and determining their consistency and accuracy for further prediction by processing/analyzing datasets derived from stool samples of Crohn's disease patients who have received fecal microbiome transplants.
- Using R, Python.

**Research Student - Benjamin Haibe-Kains Lab**

**May 2017 – August 2017**

- Collecting drug identifiers for annotating drug datasets, as well as curating a set of drugs to be used in a future version of DNF: <https://github.com/bhklab/DNF>
- Creating various data visualizations using the d3.js library for PharmacoDB, a database for mining pharmacogenomic datasets: <http://pharmacodb.pmgenomics.ca>
- Published in NARS - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5753377/>
- Unit-testing/debugging various functions in PharmacoGx as well as creating new drug datasets (PharmacoSets): <https://github.com/bhklab/PharmacoGx>

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## **ROP299Y Research Program - Bioinformatics**

**September 2016 – May 2017**

- Developed an ePlant Navigator phylogenetic tree using d3.js (a JavaScript library using SVG, HTML and CSS) in Bio-Analytic Resource (BAR) ePlant Browser, available at: <http://bar.utoronto.ca/eplant/>  
Prototype: <http://bar.utoronto.ca/~cho/index.html>
- Worked under the supervision of Professor Nicholas Provart as well as various members of the Provart Lab, wrote a proposal and final report, presented my project at the ROP299 poster fair
- Used JavaScript, jQuery, and HTML/CSS

## **Student Web Developer: Benjamin Haibe-Kains Lab**

**October 2016 – January 2017**

- Programmed new features into source code for a site designed to display relationships between drugs based on structure, sensitivity and perturbation, found at: <http://dnf.pmgenomics.ca>
- Currently published in the Cancer Research journal, manuscript found at <http://cancerres.aacrjournals.org/content/early/2017/03/17/0008-5472.CAN-17-0096>
- Worked with Professor Benjamin Haibe-Kains as well as a team of undergraduate students in the lab [HYPERLINK "http://dnfwebapp.herokuapp.com/"](http://dnfwebapp.herokuapp.com/)
- Used d3.js, Cytoscape.js to help create charts, and Angular.js, JavaScript, and HTML/CSS to create a documentation page as well as debug/create new features in the drug network

## **Experiences - Skills**

### **Paid Summer Work-Study – Pedagogical Website Designer/Developer**

**May-August 2016**

- Managed a WordPress blog focusing on the pedagogical changes in the Human Biology Department at UofT
- Worked with a team of 5 UofT undergraduate students and Professor William Ju of the HMB Department at UofT to improve on the Human Biology Department's methods of teaching – approaches towards students, lecture styles, format of lecture powerpoints.

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## **Bridletowne-Warden Animal Hospital – Vet Assistant**

**2015 - 2016**

- Cared for dogs, cats, and rabbits before, during and after surgical procedures
- Conducted blood and urine tests, cleaned and helped groom animals
- Helped with basic training and feeding procedures for animals
- Made general and medical reports on animals

## **TPL Youth Advisory Group – Bridlewood and Agincourt Library**

**2013-2015**

- Designed/coded a webpage for the library's blog in HTML/CSS, maintained the blog posts and website
- Organized and participated in community events (barbecues, fundraisers, holiday celebrations)
- Wrote monthly newsletters and book reviews
- Planned, presented and implemented services/programs to benefit the library
- Developed leadership, communication, and teamwork skills

## **Leading to Reading at Agincourt Library**

**2013-2014**

- Leading to Reading (LTR) is a program that assists children in grades 1-6 who are struggling with reading or other homework
- Students are often ESLs (English as a Second Language), communicated with them in Cantonese, English, and French
- Helped students read books at their age level as well as finish worksheets designed to help them improve their language skills

## **Relay for Life – Co-founder, Finance and Registration Chair**

**2012-2014**

- Co-founded and co-organized a Relay for Life Event in my school to support cancer research and recognize cancer survivors/fighters
- Managed finances and budgets, organized donations and fundraisers to support the event
- Tracked participants, promoted teams to sign up, organized registration process

## **Summer Program for Disabled Persons at William J. McCordic School**

**Summer 2012**

- Volunteered with disabled people aged 13-30 years old
- Prepared meals, set up wheelchairs/other equipment, cared for students

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- Organized various activities (walking around the community, sports) and taught basic math/English to some students

## **Skills and Interests**

- Fluent in HTML/CSS/SVG, Python, Java, JavaScript (d3, jQuery, NodeJS, Express), R, C, SQL
- Proficient with Git/GitHub, Unix, LaTeX, Microsoft Word/Excel/PowerPoint, Adobe Photoshop, Adobe Illustrator
- Bilingual: Fluent in English, Cantonese
- Played piano for 15 years
  - Finished my RCM ARCT performance degree in August 2015
  - Won a gold medal for the highest mark in Ontario for my grade 9 exam