

Remi Marchand

3B Honours Biology,
Computer Science Minor



Richmond Hill, ON



(647) 995-3645



<https://github.com/Remimstr>



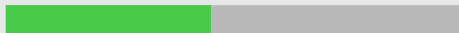
remimarchand@mail.com

About me

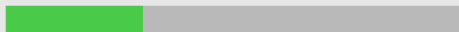
- Experience solving complex problems in biology using computational approaches
- Excited by new challenges; I love being thrown into the "deep end" of a project
- Passionate being part of a team that accomplishes ambitious goals such as whole genome cancer analysis
- Coursework and self-taught in Python, Bash, Java; Some PHP, C, SQL, R, and HTML
- Familiar writing clean, modular code, and using VCS such as Git

Skills

C



Java



Python



Data Science



VCS - Git



Web Development



Passion for Learning New Skills



Hobbies

- Shameless music nerd; Pianist, violinist, and composer. Check out: <https://soundcloud.com/remi-marchand>
- Chinese home cook in training; Signature dish: sweet and sour fish tiles

Work Experience

- Fall 2016 Bioinformatics Support Neufeld Lab, Waterloo
- Performed maintenance and support for servers and backups
 - Created and modified scripts as required by teams of researchers for their specific projects
 - Prioritized tasks and documented work carefully through github
- Spring 2016 Bioinformatics Research Assistant National Microbiology Laboratory, Guelph
- Created tools in python for the curation of > 63,000 Salmonella samples resulting in a comprehensive collection of metadata to be used for analysis
 - Implemented automation using custom spellchecker and controlled list modules reducing manual curation required
 - Code at: https://github.com/Remimstr/Standardize_Metadata
- Fall 2015 Computational Cancer Genomics SickKids Hospital, Toronto
- Worked as part of a team to characterize paediatric cancer samples using a high performance computing cluster
 - Reduced the number of false positive translocations called by our pipeline 10-fold; from an average of 150 to an average of 16
 - Designed and wrote a novel tool in python that used translocation events to predict tumor evolution
- Winter 2015 Instructional Support Assistant Faculty of Math, University of Waterloo
- Supported students learning computer science for the first time by hosting office hours and providing 1-on-1 guidance

Relevant Courses

- Fall 2016 CS 234 - Data Types and Structures
- Learned to choose and implement the appropriate abstract data type(s) and algorithm(s) for the job
 - Analysis of running time, testing and debugging of code
- Fall 2016 CS 330 - Management Information Systems
- Gained an understanding of the role of IT in business systems including databases, internet protocols, and development cycles
- Winter 2016 CS 230 - Introduction to Computers and Computer Systems
- Expanded on foundational CS knowledge in the areas of memory management, multiprocessing, threading, and more

Volunteer Experience

- Fall 2016 Science Ambassador Faculty of Science, University of Waterloo
- Gave tours and answered questions to prospective students
- Winter 2015 Course Notes Editor Dr. Kirsten M. Muller, University of Waterloo
- Applied command of the English language to improve course notes for a first year biology class
- 2013-2014 Advanced Medical First Responder UW Campus Response Team
- Volunteered close to ninety hours to provide first aid on campus

Awards

- Winter 2016 Dean's Honour List
- April 2014 Grebel Student Life Award for contributions to residence
- June 2013 English and Music Awards, Grade 12
- June 2010 First Class Honours with Distinction for 90% on grade 10 piano exam