

# Cheryl Lau

## Current Address

201 Lester St.  
Waterloo, ON  
N2L 3W6

3A Chemical Engineering

cheryl.lau@uwaterloo.ca  
(416) 819 – 8833 (cell)

## Permanent Address

29 Waymount Ave.  
Richmond Hill, ON  
L4S 2G5

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## SKILLS SUMMARY

- Experienced with Linux/Unix interface and tools (Vim, grep, sed)
- Proficient at data manipulation and visualization in R and MATLAB
- Working knowledge of Bash and Python scripting
- Adept at Microsoft Word, Excel, PowerPoint, and Outlook
- Ability to adapt quickly and learn independently
- Exemplary project and team management skills

## WORK EXPERIENCE

**BioNanoTech Data Analyst**, Ontario Institute for Cancer Research, Toronto, ON, Sept-Dec 2014

- Processed and analyzed next-generation sequencing data using R
- Validated cancer mutation-detection algorithms
- Managed worldwide crowd-sourced competition: administered weekly meetings and effectively delegated tasks to project team members
- Provided ongoing support as liaison between competition coordinators and contestants

**Electrical Engineering Design Developmental Student**, AMEC NSS, Toronto, ON, Jan-May 2014

- Prepared electrical and instrumentation and control design change papers for Bruce Power and OPG nuclear power plants
- Maintained engineering project lifecycles in accordance with client procedures
- Coordinated project risk assessment tasks with appropriate stakeholders
- Compiled information to write and edit operational experience reports

**Technical Engineering Writer**, ANSYS Canada Ltd., Waterloo, ON, Apr-Aug 2013

- Examined and resolved defects in documentation for ANSYS software
- Improved and updated tutorials based on new software features
- Collaborated with subject matter experts to improve technical documentation

## EDUCATION

**Candidate for Bachelor of Applied Science**, Honours Chemical Engineering, University of Waterloo, ON, September 2012-Present

**Distinctions:** Dean's Honours List, Fall 2012/Fall 2013/Spring 2014

**Relevant Work:** Water Purification with Bio-Renewable Nanomaterials, Directed Research Project, September 2013-December 2013

- Synthesized renewable nanomaterials as an adsorbent for water purification
- Performed chemical characterization of the polymers in question
- Optimized capability of nanomaterial by adjusting synthesis process

## **ACTIVITIES/ MEMBERSHIPS**

**Engineering Case Competition,** University of Waterloo, July 2014

- Researched and analyzed environmental impacts of Canadian tar sands industry
- Designed feasible action plan to mitigate environmental impacts while optimizing socioeconomic effects
- Presented design plans with a high degree of professionalism

**Chief Advocacy Representative,** Engineers Without Borders University of Waterloo Chapter, September 2013-Present

- Advocate policy reforms regarding global poverty to federal MP's
- Apply engineering design process to find potential solutions for real-world issues
- Collaborate with other universities, government officials, and representatives from Engineers Without Borders national office to promote local learning and action

## **VOLUNTEER EXPERIENCE**

**Journalist,** North American Young Generation in Nuclear Conference, Toronto, ON, May 2014

- Recorded speaker sessions, interviewed nuclear industry professionals, and wrote conclusive conference report