

# Warren Wan Pang Cheung

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wlwanpan.github.io

## ***Education***

**Bachelor of Biochemistry**, Honors with specialization in **Biotechnology**,  
Minor **Computer Science**,  
University of Waterloo, Ontario

**Sept 2012 - Dec 2016**

## ***Skills Summary***

- Knowledge in Object-Oriented paradigms, Linux Environment and Git version control.
- Proficient in Python, Javascript, jQuery, HTML and CSS.
- Operating Systems: Mac Os X, Linux and Windows.
- Ability to work in team as well as individually.
- Bilingual - Excellent verbal and written communication skills in French and English.

## ***Work Experience***

**Research Assistant - Department of Biology**  
University of Waterloo, Ontario

**May 2016 - Dec 2016**

- Microbial sampling in landfill.
- DNA extraction of prokaryotic cells and PCR amplification.
- Data mining of metagenomic database, IMG/JGI and NCBI.
- Sequence alignment and analysis using Muscle, FastTree and Geneious.
- Sequence extraction and data manipulation using Python scripts.

**Research Assistant - MSI Research Institute**  
Vacoas, Mauritius Island

**Sep 2014 - Dec 2014**

- DNA extraction from sugar cane and qPCR amplification.
- Genetic fingerprinting of sugarcane using microsatellite markers.
- Next generation sequence data analysis using software STACKS, Novoalign and Samtools.
- Linkage map construction of sugarcane varieties using Joinmap and QTL analysis using MapQTL.
- Wrote Python scripts for application in sequence data manipulation.

**Volunteer - National Wildlife Foundation**  
Reduit, Mauritius Island

**Feb 2012 – Apr 2012**

- Tracked and tagged Columbidae, Passerine and Falcon endemic type birds.
- Designed and set up traps for small Carnivorans predator species.
- Monitored feeding pattern of birds to determine their nesting behaviours.
- Recorded measurements squabs morphometrics and banding.
- Helped with Plant phenology project.
- Monitored hopper watch for pigeon's survivorship.

## ***Certifications***

- Laboratory training - WHMIS 2015, Employee Safety Orientation
- Red Cross First Aider - Certified Level A, CPR and AED
- Assistant Lifeguard - Certified Bronze Cross

**May 2016 - Present**

**Oct 2016 - Present**

**Oct 2016 - Present**

## ***Relevant Courses***

- Applications Software Engineering
- Networks and Distributed Computer Systems
- Management Information Systems
- Computer Application in Business: Databases
- Data Types and Structures
- Elementary Algorithm Design and Data
- Introduction to Machine Language Programming

## ***Awards***

- **Term's Dean Honours list**, University of Waterloo, Winter 2013
- **President's Entrance Scholarship**, University Of Waterloo, 2012
- **International Student Entrance Scholarship**, University of Waterloo, 2012

## ***References***

### **Dr. Laura Hug**

Biology Professor, University of Waterloo, Canada

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### **Dr. Yogesh Purmessur**

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