

# ROSHAN NORONHA

[www.roshannoronha.com](http://www.roshannoronha.com)

[www.github.com/roshannoronha](http://www.github.com/roshannoronha)

[roshananoronha@gmail.com](mailto:roshananoronha@gmail.com)

## EDUCATION

### **BACHELOR OF SCIENCE IN MOLECULAR BIOLOGY AND BIOCHEMISTRY**

Simon Fraser University

2016-Present

### **ASSOCIATE OF SCIENCE DEGREE IN BIOINFORMATICS WITH CO-OP**

Langara College

2011-2016

## EXPERIENCE

### **RESEARCH ASSISTANT – Leroux Laboratory**

**February 2018 – December 2018**

- + Applied computational techniques to identify novel transition zone proteins
- + Communicated with a diverse team to determine the localization of ciliary proteins in *C.elegans*
- + Maintained a variety of *C.elegans* strains for use in temperature sensitive screens

### **CLEAN TECH INTERN – Langara College**

**May 2017 – April 2018**

- + Supervised a team of seven students in proper lab technique, data collection procedures and presentation skills
- + Designed and ran a one-year experiment to determine the feasibility of growing mealworms on a waste food diet
- + Tested the effectiveness of biochar purification with respect to nitrogen and ammonia removal

### **JUNIOR SOFTWARE ENGINEER – GenomeDx Biosciences**

**May 2014 – December 2014**

- + Collaborated with researchers at the University of Miami and GenomeDx to validate prognostically significant biomarkers
- + Utilized visualizations to validate any significant relationships between immunohistochemical data and gene expression data
- + Designed the implementation of a new quality control pipeline

**LAB ASSISTANT – Morin Laboratory**  
**September 2012 – January 2013**

- + Downloaded and installed pipeline analysis tools for a local instance of the Galaxy Bioinformatics web based platform
- + Used patient data from BC Cancer Agency to create PCR primers for further study of specific mutated regions
- + Aided in lab tasks such as using an Illumina sequencer, running gels and sterilizing lab equipment

**PROJECTS**

**NUMBRE:** A neural network trained to recognize handwritten numbers  
(<http://bit.ly/numbre>)

**Analysis of The Invasive European Fire Ant:** A bioinformatics approach to study the invasive European Fire Ant (<http://bit.ly/europeanfireant>)

**Shiny Diversity:** An interactive application to explore various ecological diversity metrics  
(<http://bit.ly/shinytool>)

**PUBLICATIONS**

Leung ET, **Noronha R**, Mirza A et al. ShinyDiversity - Understanding Alpha and Beta Diversity through Interactive Visualizations [version 1; referees: 1 approved, 1 approved with reservations]. F1000Research 2018, 7:479 (<http://bit.ly/shinydiversity>)

Naumann, K., Moniz de Sá, M., Lewis, E., & **Noronha, R**. 2018 Jan 26. Supercolonies of the invasive ant, *Myrmica rubra* (Hymenoptera: Formicidae) in British Columbia, Canada. Journal of the Entomological Society of British Columbia. (<http://bit.ly/fireantpaper>)

**PRESENTATIONS**

**Noronha R** (November 3, 2018) TEDxSFU: Uncharted. Changing Food for a Changing World. (<http://tedxsfu.com>)

**Noronha R**, Stewart M, Moniz de Sá M et al. (March 29, 2018) The Effect of Waste Food Diets on The Yellow Mealworm Larvae (*Tenebrio Molitor*). Langara College Scholarship Café, Burnaby, BC. (<http://bit.ly/yellowmealworm>)

Alan Pollack, Nicholas Erho, **Roshan Noronha** et al. (February 26-28, 2015) A biomarker panel associated with distant metastasis in prostate cancer patients [...]. Abstract no. 08. 2015 Genitourinary Cancers Symposium, San Francisco, CA. (<http://bit.ly/metpanel>)