

# ROSHAN NORONHA

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

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

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

## EDUCATION

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

Simon Fraser University, Burnaby BC, Canada

2016 - 2019

### **ASSOCIATE OF SCIENCE DEGREE IN BIOINFORMATICS**

Langara College, Vancouver BC, Canada

2011 - 2016

## EXPERIENCE

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

**February 2018 – December 2018**

- + Identified novel transition zone proteins using computational techniques
- + Used GFP tagging to determine the localization of candidate ciliary proteins
- + Facilitated lab research by maintaining a variety of *C.elegans* strains

### **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
- + Ran a one-year experiment proving mealworms could consume waste food and styrofoam
- + Showed that biochar could be used to remove 0.5% of ammonia from contaminated water

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

**May 2014 – December 2014**

- + Collaborated with researchers at the University of Miami and GenomeDx to validate prognostically significant biomarkers
- + Identified relationships between immunohistochemical and gene expression data
- + Increased the speed of microarray analyses by designing 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

**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). Supercolonies of the invasive ant, *Myrmica rubra* (Hymenoptera: Formicidae) in British Columbia, Canada. *Journal of the Entomological Society of British Columbia*, 114, 56-64 (<http://bit.ly/fireantpaper>)

Pollack, A., Erho, N., **Noronha, R.** et al. (2015). A Biomarker Panel Associated With Distant Metastasis (DM) in Prostate Cancer Patients [...]. *International Journal of Radiation Oncology\*Biophysics*, 93(3). (<http://bit.ly/metpanel>)

**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>)

**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>)