ROSHAN NORONHA

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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 immuniohistochemical 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)