# ROSHAN NORONHA

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## EDUCATION

**BACHELOR OF SCIENCE IN MOLECULAR BIOLOGY AND BIOCHEMISTRY**
Simon Fraser University, Burnaby BC, Canada | 2016 - 2019

**CERTIFICATE IN GENOMICS**
Simon Fraser University, Burnaby BC, Canada | 2018 - 2019

**ASSOCIATE OF SCIENCE DEGREE IN BIOINFORMATICS**
Langara College, Vancouver BC, Canada | 2011 - 2016

## EXPERIENCE

**LAB MANAGER – The MAGPIE Research Group, Simon Fraser University**
**Burnaby, BC, Canada | April 2019 – Present**

- Worked in an interdisciplinary environment with external researchers to assist with publication and presentation processes.
- Completed tasks on time or ahead of schedule by organizing work assignments and maintaining attention to detail.

**RESEARCH ASSISTANT – Leroux Laboratory, Simon Fraser University**
**Burnaby, BC, Canada | February 2018 – March 2019**

- Wrote code in R and Python to identify three novel proteins implicated in ciliopathies.
- Used fluorescent microscopy to visualize protein localization in *C.elegans*.
- Performed data manipulation and transformation by creating scripts using the UNIX shell.

**CLEAN TECHNOLOGY INTERN – Langara College**
**Vancouver, BC, Canada | May 2017 – April 2018**

- Identified beer spoiling bacterial species by designing PCR primers against conserved rRNA regions.
- Worked with local breweries to identify the molecular causes of beer yeast degradation.
- Recorded experimental conditions by creating and programing custom sensors.

**JUNIOR SOFTWARE ENGINEER – GenomeDx Biosciences**
**Vancouver, BC, Canada | May 2014 – December 2014**

- Collaborated with the University of Miami to validate prognostically-significant biomarkers.
- Tracked samples from multiple projects by writing R and Python scripts to combine information from different databases.
- Increased the speed of microarray analyses by testing and validating a new workflow.

## PUBLICATIONS

Leung ET et al. (2018). **ShinyDiversity - Understanding Alpha and Beta Diversity through Interactive Visualizations.** *F1000Research*.

Naumann K et al. (2018). **Supercolonies of the invasive ant, Myrmica rubra (Hymenoptera: Formicidae) in British Columbia, Canada.** *Journal of the Entomological Society of British Columbia*.

Pollack A et al. (2015). **A Biomarker Panel Associated With Distant Metastasis (DM) in Prostate Cancer Patients Treated With Radiation Therapy Is Also Prognostic for DM in a Large Cohort of Prostatectomy Patients**. *International Journal of Radiation Oncology • Biology • Physics*.

## PRESENTATIONS

Noronha R (November 3, 2018). **Changing Food for a Changing World.** TEDxSFU: Uncharted, Vancouver, Canada. (http://bit.ly/changingfood)

Noronha R, Stewart M (February 19, 2017). **The Effect of Waste Food Diets on The Yellow Mealworm (*Tenebrio Molitor*)**. Langara College Scholarship Café, Vancouver, Canada.

## PROJECTS

**Portable and Efficient PCR Machine**: Using 3D modeling, programming and electronics I designed and built a miniature PCR machine. (http://bit.ly/PCRMachine)

**Environmental Sensors**: Leading a team of four, we built and programmed sensors to monitor experimental conditions. (http://bit.ly/labsensors)

**Shiny Diversity**: As part of a hackathon, my team and I created a web tool to visualize alpha and beta diversity in microbial communities. (http://bit.ly/shinytool)