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

ABCELLERA | VANCOUVER, BC, CANADA

AUTOMATION SCIENTIST
FEBRUARY 2021 – PRESENT
- Developed and optimized processes to automate laboratory workflows on work cells.
- Applied automation scheduling software and in-house API's to implement custom automation solutions.
- Used CAD software and 3D printers to design and build custom hardware for Hamilton liquid handlers.

LABORATORY AUTOMATION TECHNOLOGIST
NOVEMBER 2019 – FEBRUARY 2021
- Designed, validated, and deployed custom automation methods for Hamilton and Agilent Bravo liquid handling systems.
- Collaborated directly with scientists to translate their specifications into automated solutions.
- Using Plotly Dash, developed custom webapps for data analysis and visualization.

SIMON FRASER UNIVERSITY | BURNABY, BC, CANADA

LABORATORY MANAGER - MAGPIE RESEARCH GROUP
APRIL 2019 – NOVEMBER 2019
- Collaborated with external researchers and assisted with publication and presentation processes.

- Documented financial statements, onboarded new members and coordinated group meetings.

RESEARCH ASSISTANT - LEROUX LABORATORY
MARCH 2018 – MARCH 2019
- Used R, Python and Excel to identify three novel proteins potentially implicated in ciliopathies.
- Created scripts to pull data from public data bases according to established protocols.
- Performed data manipulation and transformation by creating programming scripts using the UNIX shell.

DECIPHER BIOSCIENCES | VANCOUVER, BC, CANADA

JUNIOR SOFTWARE ENGINEER
MAY 2014 – DECEMBER 2014
- Collaborated with external researchers to validate prognostic biomarkers.
- Used SQL and Python to track samples from multiple databases.
- Increased the speed of microarray analyses by testing and validating a new workflow.

PUBLICATIONS

Metzig C, Gould M, Noronha R, Abbey R, Sandler M, & Colijn C. (2020). **Classification of Origin with Feature Selection and Network Construction for Folk Tunes**. *Pattern Recognition Letters*.

Noronha R, Stewart M & Moniz de Sá M. (2019). **The Effect of Sustainably-Sourced Waste Food Diets on Yellow Mealworm Larvae (Tenebrio Molitor)**. *SFU Science Undergraduate Research Journal*.

Leung ET, Noronha R, Mirza A, Shenwai R & Mpatziakas A. (2018). **ShinyDiversity - Understanding Alpha and Beta Diversity through Interactive Visualizations**. F1000Research.

Naumann K, Moniz de Sá M, Lewis E, & Noronha R. (2017). **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*.