

Sedat Demiriz

December 2, 2023

Experience

Computational Biologist - *Sequence Bio Inc.*

- Lead the development of GWAS and ROH analysis pipelines with a focus on scalability and reproducibility
- Derived disease associations by analyzing data from company's Newfoundland population cohort
- Combined public and company datasets to derived insights into founder population genetics signature

Research Programmer - *BC Genome Sciences Center*

- Performed quality control of incoming clinical oncopanel wet lab data by NGS data quality metrics
- Streamlined existing quality control and visualization scripts and configured for reusability
- Assisted graduate students with applying computational approaches to research questions

Biosensor R&D Co-op Programmer - *CiBER Lab, SFU*

- Automated sensor response data processing and generation of easily digestible visualizations
- Performed collection of data from hundreds of sensor instances during development
- Presented and implemented metrics for determining sensor instance success based on response pattern

Genetics Co-op Student - *Istanbul University Genetics Institute*

- Carried out clinical PCR, DNA and RNA isolation and sample quality control procedures
- Worked routinely in cell culture laboratory to grow five varieties of tumnor cell populations for lab use
- Lead nad supported four other co-op students during their first month with the lab

Skills

- Experience implementing robust genomics data processing workflows using pipeline utilities
- Experience working with general population cohort data, identifying phenotype-genotype associations
- Fluent in Python, R, and Bash for data analysis, transformation and visualization tasks
- Applying good software development practices: version control, unit testing, documentation
- Querying SQL databases and unstructured public health data sources

Education

BSc Molecular Biology and Biochemistry & Computing Science

- Computing Science:
- Molecular Biology:
- Statistics:

Publications

one

two