

DANA ROCHA

858-353-4055 dbridgette.rocha@gmail.com [linkedin.com/in/rochadana](https://www.linkedin.com/in/rochadana) github.com/dana-rocha

EDUCATION

Northeastern University

Boston, MA

Master of Science in Bioinformatics and Graduate Certificate in Data Analytics (3.6/4) *Expected Dec. 2020*

Relevant Coursework: Algorithms, Bioinformatics Programming, Computational Statistics

Northeastern University

Boston, MA

Bachelor of Science in Biochemistry

Aug. 2018

TECHNICAL SKILLS

Languages Python 3, R, SQL, HTML5, CSS3

Software PyCharm, Git, RStudio, Spotfire, Pipeline Pilot, DBeaver, Oracle SQL Developer

TECHNICAL EXPERIENCE

Merck & Co.

Boston, MA

Modeling & Informatics Co-op – MRL Computational and Structural Chemistry *Jan. – Aug. 2020*

- Trained Naïve Bayes classification models to identify relationships between compounds, genes, and disease
- Built workflows to process chemical data from public and internal databases using Pipeline Pilot and SQL
- Delivered three knowledge-based compound sets for phenotypic screening programs in Chemical Biology
- Created interactive data visualization dashboards using Spotfire
- Led presentation of data insights to scientists within Chemical Biology, Neuroscience, and Informatics

RESEARCH EXPERIENCE

Orig3n Inc.

Boston, MA

Research Assistant Co-op

Jul. – Dec. 2017

- Maintained hiPSC, MSC, and RPE cell cultures for internal assays and animal studies
- Characterized cell cultures with fluorescence microscopy and flow cytometry
- Represented Orig3n as a brand ambassador at events in New York City, Baltimore, and Lake Tahoe

Brigham and Women's Hospital – CCI Specimen Processing Lab

Boston, MA

Lab Technician Co-op

Jun. – Dec. 2016

- Processed specimens for clinical studies conducted by the CCI Units and Emergency Department
- Completed all documentation required for individual specimens according to research protocol requirements
- Maintained laboratory instrumentation to performance standards

PROJECTS

Weather App

Current

- Built an app that displays current weather for various cities using Python 3 and Django 3.1
- Accessed real-time weather data from Open Weather Map API

Mapping Manhattan by Distance to Nearest Subway Stations

Jun. 2020

- Created Python script to compute distance using Pandas, Scikit-learn, and Numpy
- Visualized data with an interactive choropleth map using the Plotly library in Python 3
- Processed data from NYC MapPLUTO dataset and New York City Capital Planning Platform