

DANA ROCHA

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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, CSS

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 machine learning models and built workflows using Pipeline Pilot to predict new relationships between compounds, genes, and disease
- Delivered three knowledge-based compound sets for phenotypic screening programs in Chemical Biology
- Queried public and internal databases using SQL to retrieve data for workflows
- Created data visualizations using Spotfire for data analysis
- Led presentation of data insights to scientists within Chemical Biology 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 using 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

Mapping Manhattan by Distance to Nearest Subway Stations

Jun. 2020

- Created Python script to compute distance using the Pandas library and Numpy package
- Visualized data with an interactive choropleth map using the Plotly library in Python

College Student Demographics Over Time

Nov. 2019 – Dec. 2019

- Accessed the College ScoreCard API to retrieve demographic data using R
- Visualized patterns of demographic enrollment using the ggplot2 package in R
- Queried and stored data in relational databases using SQL