

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

Master of Science in Bioinformatics and Graduate Certificate in Data Analytics (3.66/4.0)

Boston, MA

Dec 2020

Northeastern University

Bachelor of Science in Biochemistry

Boston, MA

Aug 2018

TECHNICAL SKILLS

Languages: Python, R, SQL, C, HTML5, CSS3, JavaScript, Perl

Tools: Visual Studio Code, Git, PyCharm, RStudio, Spotfire, Pipeline Pilot, DBeaver, Oracle SQL Developer

Databases: Oracle, MySQL

PROFESSIONAL EXPERIENCE

Merck & Co.

Boston, MA

Informatics Co-op – MRL Computational and Structural Chemistry

Jan 2020 – Aug 2020

- Trained machine learning models to identify relationships between chemical compounds, genes, and disease
- Queried chemical data from public and internal databases using Pipeline Pilot, Pilot Script, and SQL
- Delivered compound sets to three drug discovery research programs in Chemical Biology for initial testing
- Created interactive Spotfire data visualization dashboards for over 140,000 compounds and genes
- Presented data insights to chemists and data scientists within Chemical Biology and Informatics
- Led weekly meetings with co-workers to promote an inclusive virtual community during global pandemic

Orig3n Inc.

Boston, MA

Research Assistant Co-op

Jul 2017 – Dec 2017

- Maintained stem cell cultures for internal assays and animal studies
- Characterized stem 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

Boston, MA

Lab Technician Co-op – CCI Specimen Processing Lab

Jun 2016 – 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

LEADERSHIP EXPERIENCE

Northeastern University

Boston, MA

Student Facilitator - Graduate Leadership Institute

Feb 2021 – Apr 2021

- Mentored 40 graduate students on developing leadership competencies outlined by learning goals
- Led weekly online workshops and discussions with students
- Oversaw logistics for online workshops and discussions using Zoom and FlipGrid
- Hosted weekly virtual meetings with co-facilitators to plan workshops, activities, and presentations

PROJECTS

Heart Failure Prediction

Dec 2020

- Created classification models to predict survival of heart failure patients using R with over 81% accuracy
- Trained, tested, tuned classification models using k-NN, Support Vector Machines, and ANN algorithms
- Built a bootstrapped ensemble model with 86.66% prediction accuracy

Mapping Manhattan

Jun 2020

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