

# DANA ROCHA

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

## EDUCATION

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### Northeastern University

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

Relevant Coursework: Algorithms, Bioinformatics Programming, Data Mining/Machine Learning

**Boston, MA**

*Dec 2020*

### Northeastern University

*Bachelor of Science in Biochemistry*

**Boston, MA**

*Aug 2018*

**CERTIFICATIONS:** NIH - Protecting Human Research Participants, PADI Open Water/Drysuit Diver

## TECHNICAL SKILLS

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**Languages** Python, R, C

**Data Science Libraries** GGplot2, Matplotlib, Pandas, NumPy, Scikit-Learn

**Tools** Visual Studio Code, RStudio, PyCharm, Spotfire, Pipeline Pilot, Confluence, SharePoint

**Databases** Oracle DBMS, DBeaver, MySQL, MongoDB

**Web Technologies** SQL, HTML5, CSS3, Bootstrap, JavaScript

## PROFESSIONAL EXPERIENCE

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### Merck & Co.

*Informatics Co-op – MRL Computational and Structural Chemistry*

**Boston, MA**

*Jan 2020 – Aug 2020*

- Trained machine learning models to identify relationships between compounds, genes, and diseases
- 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

### East Coast Divers

*Store Associate*

**Boston, MA**

*Aug 2019 – Mar 2020*

- Greeted and assisted customers by suggesting suitable dive equipment based on needs and skill level
- Processed Point-of-Sales transactions including checks, cash, credit card purchases, and refunds
- Conducted minor repairs and maintenance on scuba diving equipment including air tanks, wetsuits, and BCDs

### Orig3n Inc.

*Research Assistant Co-op*

**Boston, MA**

*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

*Lab Technician Co-op – CCI Specimen Processing Lab*

**Boston, MA**

*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 protocol requirements
- Maintained laboratory instrumentation to performance standards

## LEADERSHIP EXPERIENCE

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### Northeastern University

*Student Facilitator – Graduate Leadership Institute*

**Remote**

*Feb 2021 – Present*

- 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, FlipGrid, and Canvas
- Hosted weekly virtual meetings with co-facilitators to plan workshops, activities, and presentations