

Daniel Vitale

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Education

Rutgers University

New Brunswick, NJ

School of Environmental and Biological Sciences

Bachelor of Science: Biological Sciences **Minor:** Chemistry

Expected: May 2017

Work Experience

Bromberg Lab (Rutgers University)

New Brunswick, NJ

Undergraduate Research Assistant

January 2017-Present

- Building a pipeline for processing of deep mutational scanning datasets (cleaning, normalization, analysis) using python and R
- Application of a machine learning approach to build a new predictor for functional effects of SNPs using rheostat information
- Feature selection, model training, and cross-validation

Roche Molecular Diagnostics

Branchburg, NJ

Case Investigations and Resolution (CIR) Intern

May 2016-August 2016

- Managed an FDA Team Biologics audit preparation project
- Designed and implemented a real-time complaint case management system for future audits
- Gained project management experience with a regulatory area of a global biotechnology company

Rutgers Molecular Biosciences Lab

New Brunswick, NJ

Undergraduate Research Assistant

January 2016-May 2016

- Conducted research on behavioral and developmental toxicology in zebrafish exposed to perfluoroalkylated substances (PFASs)
- Set groundwork for further studies of genetic and biochemical mechanisms of toxicity shown by perfluoroalkylated substances

Rutgers University Rockwall

New Brunswick, NJ

Climbing Wall Instructor

September 2014-May 2016

- Taught adult rock climbing and belaying courses
- Oversaw Rockwall safety during open hours
- Planned and managed events for students, faculty, staff, and the general public
- Performed climbing wall maintenance

Dogfish Head Craft Brewery

Milton, DE

Tour Team Coworker

May 2015-August 2015

- Gave public presentations to groups of 30 or more on the brewing process, fermentation principles, and beer culture
- Conveyed detailed information on the happenings and current brewing projects to the general public

Rutgers Environmental Health and Safety

Piscataway, NJ

Health and Safety Specialist Intern

January 2014-May 2014

- Led lab safety inspections, medical waste management, and mold remediation operations
 - Gained experience in processes and protocols that allow research labs to operate safely and effectively
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Skills

- Programming Languages: Python, R