

## Alexander Schwartz

Senior Research Associate with 3 years of industry experience in Drug Discovery seeking more programming experience.

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### Personal Information

Current Address: Williston, VT | 508 245-3801 | [aoschwartz7@gmail.com](mailto:aoschwartz7@gmail.com)

### Education

**Bachelor of Science** in Biochemistry and Molecular Biology | *cum laude* (GPA 3.51)

Dickinson College | Carlisle, PA USA | 2012 - 2016

### Online Course Certificates

University of Michigan (Coursera)

- Programming for Everybody (Getting Started with Python)
- Python Data Structures
- Using Databases with Python
- Using Python to Access Web Data

### Work Experience

**SENIOR RESEARCH ASSOCIATE | THE RNA MEDICINES COMPANY | Bedford, MA USA | October 2016 – June 2019**

The RNA Medicines Company was focused on the identification of small molecules that target microRNAs involved in cancer and fibrosis.

- Scheduled and performed experiments, conducted subsequent data analysis, and presented results to team and company.
- Maintained mammalian cell lines and engineered stable cell lines via transient transfection and IncuCyte Zoom screening for reporter gene assay.
- Performed cell viability, reporter gene, and immunology-based assays in 96 and 384-well formats to probe target specificity and toxicity parameters.
- Performed biochemical characterization assays involving radioactive materials and gel electrophoresis.
- Extracted RNA from cell lysate and performed RT-qPCR using BioRad CFX384 RealTime System.
- Used Eppendorf epMotion 5075 robotics system on a weekly basis.
- Ordered materials and reagents, and organized lab supplies.
- Managed external contractors to develop regulatory compliance programs, deliver gaseous supplies, remove biohazard wastes, and clean lab coats.

**QA/QC LABORATORY COORDINATOR | ALLIANCE FOR AQUATIC RESOURCE MONITORING | Carlisle, PA USA | September 2015 – June 2016**

ALLARM, a small NGO housed at Dickinson college, engages communities to use science as a tool to investigate the health of their local waterways.

- Performed laboratory chemical tests for quality assurance verification.
- Researched and tested new equipment to verify precision, accuracy, and accessibility for citizen scientists.
- Conducted bimonthly baseline analysis of the local Letort Spring Run.
- Helped teach organizations how to use the data they generate for aquatic protection and restoration efforts.

**STUDENT RESEARCHER | DICKINSON COLLEGE CHEMISTRY DEPARTMENT | Dickinson College | Carlisle, PA USA | February-May 2015**

Professor Mike Holden's interests are in the area of organotransitionmetal-mediated synthesis of organic compounds.

- Worked to synthesize known biologically active compounds with the incorporation of ferrocene to potentially boost efficacy of antimalarials.
- Used NMR spectroscopy to assess synthesis quality.

**STUDENT RESEARCHER | JACOB BLAUSTEIN INSTITUTE FOR DESERT RESEARCH at Ben-Gurion University of the Negev | Midreshet, Israel | November-January 2014**

Among other projects, Professor Berry Pinshow's lab explores non-canonical physiological responses of fasting in House and Spanish sparrows.

- Helped prepare dietary isotopic tracers, run 32 hour-long experiments requiring hourly measurements for stable isotope signatures in real-time using a <sup>13</sup>C-infrared analyzer (HeliFANplus), and interpret data using repeated measures (RM)-ANOVA.

**TUTOR & TEACHING ASSISTANT | BIOLOGY 120: LIFE AT THE EXTREMES | Dickinson College | Carlisle, PA USA | February-May 2016**

- Tutored students and helped them learn as independently as possible while still acting as a mentor and guide.
- Helped students perform hypothesis-driven experiments and vertebrate dissections.

**FIRST-YEAR MENTOR, WILDERNESS INTRODUCTION TO LIFE AT DICKINSON | *CAMPUS LIFE* at Dickinson College | Carlisle, PA USA | 2013 – 2016**

The First-Year Mentor program provides an opportunity for upper-level students to help new students experience a positive transition into college.

- Met with my First-Year Interest Group weekly to check in on their personal, social, and intellectual development at Dickinson.
- Led a 3-day backpacking trip through a section of the Delaware Water Gap during orientation.

**INTERN | NAVINET | Boston, MA USA | May-August 2015**

NaviNet was a leading healthcare collaboration network connecting over 40 health plans and 60% of the nation's physicians before a merger.

- Worked as a Customer Experience Intern, drafting user-experience reports and presentations for NaviNet and health insurance plans to showcase how health providers were using different software products.

**References**

- Michel Guiraldelli, PhD, Director of Biology at The RNA Medicines Company (michelfg@gmail.com)
- Leni Jacobs, PhD, Senior Research Scientist at The RNA Medicines Company (leni.s.jacob@gmail.com)

**Skills**

RT-PCR, Gel Electrophoresis, Western Blot, Transfection, Reporter Gene, IC50, Protein Expression, Cell Culture, Immunohistochemistry

**Hobbies**

- Cycling, Rock Climbing, Running, Reading, Cooking



06/17/2019

ALEXANDER O SCHWARTZ

has successfully completed

Programming for Everybody (Getting Started with Python)

an online non-credit course authorized by University of Michigan and offered through Coursera

A handwritten signature in black ink, appearing to read 'Charles', followed by a horizontal line.

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/Z4XL5WLPDA57](https://coursera.org/verify/Z4XL5WLPDA57)

Coursera has confirmed the identity of this individual and  
their participation in the course.



06/24/2019

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07/29/2019

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07/03/2019

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