

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

Personal Information

Current Address: Williston, VT | 508 245-3801 | aoschwartz7@gmail.com

Education

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

Dickinson College (H+) | Carlisle, PA USA | 2012 - 2016

Coursera Certificate 1 ...

Coursera Certificate 2 ...

Work Experience

SENIOR RESEARCH ASSOCIATE | THE RNA MEDICINES COMPANY | Bedford, MA USA | 2016 – 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 (ALLARM) | Carlisle, PA USA | 2015 – 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.
- Taught 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 ¹³C-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

Languages

- English, German (A2.2)

Hobbies

- Rock Climbing, Running, Reading, Cycling, Cooking