Ryan DeBose-Boyd

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Education

Bachelor of Science in Biology, Magna Cum Laude
Graduation: 5/11/2019
Texas A&M University – Commerce, Commerce, Texas

Relevant Coursework

- Intro to Computer Programming
- Programming Fundamentals II

Technical Skills

Operating Systems: Mac, Unix/Linux, Windows 7
Packages/Tools: Microsoft Office
Programming Languages/Frameworks:

- Swift (Intermediate)
- HTML5 (Intermediate)
- CSS3 (Intermediate)
- Python 3 (Novice)
- C++ (Novice)
- Bootstrap (Novice)
- Linux bash (Beginner)
- JavaScript (Beginner)
- Ruby on Rails (Beginner)

Work Experience

Research Technician II, 7/2019 – Present

- Department of Molecular Genetics
- Became familiar with Linux bash and HPC Cluster environments through helping out with technical tasks around the lab.

- Performed structural biology scientific research, using methods such as fast protein liquid chromatography (FPLC), transfection, mini-prep, and mutagenesis to study the mechanisms involved with the Hedgehog (Hh) signaling pathway.
- Using Linux bash, helped backup cryo-electron microscopy data to AWS S3.
- Helped remove false-positive particles and low-quality images in RELION, a structural analysis software package.

Summer Intern, 6/2013 – 8/2013, 6/2014 – 8/2014, 6/2016 – 8/2016, 6/2018 – 8/2018
University of Texas Southwestern Medical Center, Dallas, Texas

(2013)
- Department of Internal Medicine
- Performed various experiments (ELISA, FACS) to study the cellular mechanisms involved in the regulation of ankylosing spondylitis.

(2014, 2016)
- Department of Molecular Genetics
- Performed several techniques such as immunoblot analysis, immunoprecipitation, and PCR to genotype various transgenic, knockout, and knockin strains of mice.

(2018)
- Department of Molecular Genetics
- Performed and interpreted multiple qPCR assays in order to test the effects of different drugs on lipolysis induction that is present in animals with Cachexia.
- Compiled data from lab experiments into figures or tables and shared knowledge at weekly lab meetings.

Peer Tutor, 8/2016 – 1/2018
- Assisted students in completing their assignments for courses including General Chemistry, General Biology, General Physics, Pre-Calculus, and Calculus.
- Helped explain science and math concepts in a way that was easy to understand.

Undergraduate Research, 5/2017 – 3/2018
Texas A&M University- Commerce, Commerce, Texas

- Used lab techniques such as immunofluorescence and western blot to determine a potential relationship between the G1P3-induced endocytotic pathway and β-catenin in breast cancer cells.
- Presented results from lab experiments at weekly lab meetings.
- Effectively communicated lab results at the 14th Annual Pathways Student Research Symposium.
- Mentored new lab members on basic lab procedures while keeping up with own research and classwork.

Leadership Positions

Tri-Beta Secretary, 1/2017 –2/2019
Texas A&M University- Commerce, Commerce, Texas

- Collaborate with other members and officers to develop Science Days for the surrounding communities to educate younger students about science.
- Increased club attendance by 50% through consistent announcements (via email) of science-related events that are occurring around campus.
- During Fall 2016 and Fall 2017, helped organize an annual food drive that helps get food to local individuals that are in need during the Thanksgiving and Christmas seasons.

Honors and Awards

Texas A&M University – Commerce President's List

- Received Spring 2016, Fall 2016, and Spring 2017
- Given to students who have a 3.5 GPA for the semester