**Ryan DeBose-Boyd**

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GitHub Link: <http://github.com/ryan96db>

Website: <https://ryan96db.github.io/>

**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 (Basic)
* C++ (Basic)
* Bootstrap (Basic)
* Linux bash (Basic)
* JavaScript (Basic)
* Ruby on Rails (Basic)

**Work Experience**

**Research Technician II,** 7/2019 – Present

* Department of Molecular Genetics
* 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