

# Ryan DeBose-Boyd

Phone: (214) 930-4755

Email: [ryandb1596@gmail.com](mailto:ryandb1596@gmail.com)

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  $\beta$ -catenin in breast cancer cells.
- Presented results from lab experiments at weekly lab meetings.
- Effectively communicated lab results at the 14<sup>th</sup> 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