Delany A. Bradford

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Ph.D. student in Biological Sciences at Tennessee State University. I graduated from Xavier University of Louisiana in 2017 with a Bachelor of Science degree in biology and a double minor in chemistry and Spanish. I completed a one-year Master of Biotechnology program at Morehouse School of Medicine as a summa cum laude and graduated with honors from Meharry Medical College with a Master of Health Sciences degree. I matriculated through both master’s degree programs simultaneously.

# Education

**PhD** Tennessee State University, Biological Sciences Aug 2022-Present

**MS** Morehouse School of Medicine, Biotechnology Aug 2021

**MS** Meharry Medical College, Health Sciences May 2021

**BS** Xavier University of Louisiana, Biology Pre-Med July 2017

# Research Experience

**Tennessee State University**, Nashville, TN Aug 2022-Present

**PhD Researcher**, Dr. Sarika Saraswati, advisor

* Researched tissue regeneration during wound healing
* Learned and mastered cell culturing techniques and Western blot analyzation
* Introduced undergraduate research students to our research and guided them in their experimental trials of cell culturing
* Presented data at local conference

**Xavier University of Louisiana**, New Orleans, LA Aug 2014-May 2017

**Undergraduate Researcher**, Dr. Florastina Payton-Stewart, advisor

* Assisted professor with research on the effects of anticancer agents on malignant tumors
* Synthesized analogues of the phytochemical berberine
* Conducted an animal study using the newly synthesized Ber 1-3 compound on mice
* Presented data at local and national conferences

# Teaching Experience

**Tennessee State University**, Nashville, TN Aug 2022-Present

**Lab Instructor**, General Biology I, II

* Taught Honors General Biology Lab I, an undergraduate course covering topics such as, but not limited to: Mitosis/Meiosis, cell structure, cell cycle, Mendelian genetics
* Covered and reviewed material for assessments and assignments
* Taught and assisted students with lab techniques and experimental questions

**Rocky Ridge Elementary School**, Hoover, AL Aug 2019-March 2020

**Paraprofessional**, Special Education

* Served as an aide for students with special needs
* Helped these students understand information with improved test scores
* Relayed progress of students between their special and general education teachers
* Calmed students during high intensity situations using certified techniques

# Publications

## Abstracts Accepted

(Abstract-Reviewed)

Bradford, D.B. and Saraswati, S., “Identification of Molecules, through Phenotypic Screening, that Modulate Fibroblast Phenotype for Tissue Repair,” HBCU Engage 2023.

# Presentations and Invited Lectures

**Workshop**, “Funding Opportunities: Investing in Yourself,” Department of Biological Sciences Graduate Student Seminar, August 17,2023.

**Biomedical Sciences Careers Program (BSCP) Student Conference**, Westin Copley Place Hotel, Boston, MA, March 31 – April 1, 2023.

**Poster Presentation**, “Elucidating the Role of sFRP2 in Modulating Organ Fibrosis,” TSU Research Symposium, March 2023.

**Workshop**, “Preparing for Graduate/Medical School,” Panelist at TSU's 1st Annual Biology Career Day Conference, Oct 2022.

**Poster Presentation**, “The Biological Evaluation of Berberine Analogues, a Phytochemical, as Anticancer Agents,” The 253rd American Chemical Society National Meeting & Expo, April 2017.

# Professional Service

**After-School STEM Tutoring (ASST) Program Coordinator/Organizer**

High School Tutoring, Science; Technology; Engineering; Math, September 2023 - Present

# Community Service

**TSU Research Symposium**

[Presentation Moderator], [Tennessee State University], March 2023

**TSU Fall Preview Day**

[Department of Biology Representative], [Tennessee State University], Oct 2022

**STEM NOLA**

[College Volunteer], [New Orleans, LA], Aug 2014-July 2017