

DELANY A. BRADFORD

Phone: (615) 936 - 7501
dbradfo8@tnstate.edu

3500 John A. Merritt Boulevard
Nashville, TN 37209

Ph.D. candidate 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 simultaneously completed a one-year Master of Biotechnology degree program at Morehouse School of Medicine as a summa cum laude and graduated with high honors from Meharry Medical College with a Master of Health Sciences degree.

EDUCATION

Ph.D.	Tennessee State University, Biological Sciences	August 2022-Present
M.S.B.T.	Morehouse School of Medicine, Biotechnology	August 2020-Aug 2021
M.H.S.	Meharry Medical College, Health Sciences	August 2020-May 2021
B.S.	Xavier University of Louisiana, Biology Pre-Med	August 2013-July 2017

RESEARCH EXPERIENCE

Tennessee State University , Nashville, TN	Aug 2022-Present
PhD Researcher , Dr. Sarika Saraswati, principle investigator	
<ul style="list-style-type: none">• Researched tissue regeneration during wound healing• Learned and mastered cell culturing techniques along with various analyzation and quantification procedures• Introduced undergraduate research students to our research and guided them in their experimental trials of cell culturing• Research data presented at local and international conferences	
Xavier University of Louisiana , New Orleans, LA	Aug 2014-May 2017
Undergraduate Researcher , Dr. Florastina Payton-Stewart, research advisor	
<ul style="list-style-type: none">• 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 Lab I, II; Physiology and Pathophysiology	
<ul style="list-style-type: none">• 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	

- Taught Physiology and Pathophysiology Lab, an upper-level division elective that covers the concepts of the disease process
- Covered and reviewed material for assessments and assignments
- Taught students lab techniques and assisted with experimental questions

Rocky Ridge Elementary School, Hoover, AL

Aug 2019-March 2020

Paraprofessional, Special Education

- Served as an aid 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

(Conference Invitation)

Bradford, D., Saraswati, S., Young, P., “Elucidating the Role of sFRP2 in Modulating Organ Fibrosis,” Wound Healing Society (WHS) with the Symposium on Advanced Wound Care (SAWC), May 2025

Bradford, D., Saraswati, S., Young, P., “Elucidating the Role of sFRP2 in Modulating Organ Fibrosis,” New England Science Symposium (NESS) at the Biomedical Science Careers Program (BSCP), March 2025

Bradford, D., Saraswati, S., Young, P., “Elucidating the Role of sFRP2 in Modulating Organ Fibrosis,” Wound Healing Society (WHS) with the Symposium on Advanced Wound Care (SAWC), May 2024

Bradford, D., Saraswati, S., Young, P., “Elucidating the Role of sFRP2 in Modulating Organ Fibrosis,” New England Science Symposium (NESS), March 2024

(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

Poster Presentation, “Elucidating the role of sFRP2 in modulating organ fibrosis,” The Symposium on Advanced Wound Care (SAWC) Spring | Wound Healing Society (WHS), May 1, 2025.

Poster Presentation, “Elucidating the role of sFRP2 in modulating organ fibrosis,” New England Science Symposium (NESS), March 30, 2025.

Oral Presentation, “Elucidating the role of sFRP2 in modulating kidney fibrosis,” TSU Research Symposium, March 26, 2025.

Oral Presentation, “Elucidating the role of sFRP2 in modulating organ fibrosis,” The Symposium on Advanced Wound Care (SAWC) Spring | Wound Healing Society (WHS), May 16, 2024.

Poster Presentation, “Elucidating the role of sFRP2 in modulating organ fibrosis,” New England Science Symposium (NESS), April 1, 2024.

Oral Presentation, “Elucidating the role of sFRP2 in modulating organ fibrosis,” TSU Research Symposium, March 28, 2024.

Journal Club Presentation, “Dissecting embryonic and extraembryonic lineage crosstalk with stem cell co-culture,” Vanderbilt University Graduate School Journal Club, March 6, 2024

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

COMMUNITY SERVICE

After-School STEM Tutoring (A.S.S.T.)

[Program Coordinator/Organizer], Nashville, TN Partnership with Robert Churchwell Museum Magnet Elementary School, January 2025-Present; Partnership with Cockrill Elementary School, September 2025

College Admissions and Planning Services, LLC (C.A.P.S.)

[K-12 and ACT Tutor], Hoover, AL Science; Technology; Engineering; Math, September 2018-Present

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