

# Dr. Jyotheeswaran Panapakam

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Millsaps College,

Department of Biological Sciences,

1701 N State St,

Jackson, MS 39202.

## Education

Ph.D. candidate in Biological Sciences, 2020-2024 @University of North Texas,

Dissertation topic: Screen for antithrombotic drugs using zebrafish as a model organism.

Diploma in Elementary Education

2015-2017

Sri Lakshmi Narasimha Teacher Training Institute,

Andra Pradesh,

India.

Master of Science in Fishery Science,

2013-2015

Andhra University,

Andhra Pradesh,

India.

Bachelor of Science in Biological Science,

2010-2013

Government Degree College,

Puttur,

Andhra Pradesh,

India.

**Teaching experience:**

2015 -2019

Worked as a Guest Lecturer for Zoology,

R.K.S.R Govt Junior College,

Karvetnagar, Andhra

Pradesh,India.

- Taught parasitology, animal classification, chemical digestion topics.
- Developed charts and power points for animal cell structure and function, cell division, DNA replication, translation, transcription.

- Implemented group discussions for the Human reproductive system anatomy and physiology, and respiratory system and physiology.

Experiments:

- Dissected roach to separate mouth parts from it.
- Dissected earthworm to identify the internal organs such as intestine, heart.

### **Worked as a Teaching Assistant**

UNT, Denton, TX, USA

BIOL-4205 Immunology laboratory.

Spring 2020

- Taught Anatomy of the Immune system, Blood cell typing, Red blood cells counting, calculation of RBC in the given sample, Serial dilution, Enzyme linked immunosorbent assay experiment, Ouchterlony double diffusion experiment, Agglutination, antigen-antibody interactions, radial immunodiffusion, immune-electrophoresis, Serum proteins, isolating fractions, Lysozymes.
- Formed questions papers, conducted periodic evaluation to students.
- Developed student-centered curriculum through Graduate Student Teaching Excellence Training Program.

BIOL-2311 Human anatomy and physiology laboratory. Summer 2020, Spring 2022, Fall (2022-2023)

- Taught anatomical terminology, Anatomical terminology, integumentary system, primary tissues of the human body, and special sense.
- Developed personalized study plans for students who are struggling to get good grades.

- Implemented group learning activities, group discussion, polls, to encourage peer learning and peer evaluation among the students.

BIOL-2312 Human anatomy and physiology laboratory. Summer (2022, 2023) Spring (2023, 2024)

- Taught blood vessels anatomy, cardiovascular physiology, embryonic development, Digestive system, Endocrine system.
- Developed personalized study plans for students who are struggling to get good grades.
- Developed teaching learning materials.
- Increased class average grade from C to B.

Worked as a Grader and Proctor for the following undergraduate courses. (2020-2024)

1. Grader and Proctor for 4201 Immunology, 4091 Parasitology and 1720 Biology for Majors

**Visiting Assistant Professor of Biological Science at Millsaps**

August-2024-Till Date

Taught General Biology Lecture and Lab

- Taught Human Biology Lecture and Lab.
- Developed hands-on learning experiments.
- Implemented innovative teaching methods.
- Implemented innovative online learning and discussion platforms to improve student learning.

**Awards and Honors:**

1. 2013-Awarded First Rank Holder Certificate, for Botanical Sciences in B.Sc. Biology.
2. 2014- Awarded First Rank Holder Certificate, in M.Sc. Fishery Science.
3. 2020-Summer Graduate Assistantship.
4. 2021-Summer Graduate Assistantship.
5. 2022-Marie Beth Baird Summer Research Assistantship.
6. 2023-Beth Baird Summer Graduate Stipend.
7. 2023-PhikappaPhi Honor Society Membership Award.
8. 2023-Recongition For Creative Poetic Work by UNT International Events.
9. 2024-Summer Research and Teaching Fellowship.
10. 2024-Marie Beth Baird Outstanding Academic Performance Award.

**Community and volunteer services:**

1. 2010-2013 Volunteer Tutor for Biological Sciences for High School Students.
2. 2021-2024 Represented Telugu (my native language) at International Mother Language Day Events at UNT (Written original songs and performed them).
3. 2023 Volunteered at First Refuge Denton Food Ministries.
4. 2024 Organized Resume Workshop for International Students at UNT.
5. 2024 Served as a President for Bridges International Student Organization at UNT.
6. 2024 Organized meetings between faculty candidates and graduate students.
7. 2024 Interested reviewer at Journal of Thrombosis and Hemostasis.

**Trainings:**

GSTEP (Graduate student teaching excellence program)

2022

Department of Biological Sciences,

UNT.

**Publications and Presentations:**

Identification of a novel factor VII inhibitor by natural product library screening using zebrafish as a model (Oral Communication Session International Society on Thrombosis and Hemostasis Science Congress, Thailand-June 22-26-2024).

Identification of a novel factor VII inhibitor by natural product library screening using zebrafish as a model poster presentation on Annual Research Day at University of North Texas (October-2024).