

Tenzin T. Shakya

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PROFESSIONAL SUMMARY

An experienced microbiologist with proven experience improving the scientific community by performing accurate research while complying with laboratory safety protocols and standards.

EDUCATION

2022 – 2025.

Midwestern State University, Wichita Falls, Texas, U.S.

Master of Science, Biology

Department of Science Math and Engineering.

Thesis: *Candida albicans survival in the presence of gut bacterium Escherichia coli*

GPA: 3.8

2017 – 2020.

Tribhuvan University, Kathmandu, Nepal.

Bachelor of Arts, Psychology, and Philosophy

Department of Humanities and Social Science

2014 – 2019.

Tribhuvan University, Kathmandu, Nepal.

Bachelor of Science, Microbiology

Department of Science and Technology

Thesis: *Bacteriological quality of water sample collected from earthquake camp.*

EXPERIENCE

Midwestern State University, Wichita Falls TX (August 2025 Present)

Instructor – Department of Biology

Teaching undergraduate biology laboratory and lecture courses, including Anatomy and Physiology 1 & 2, Introduction to Biology

- Preparing course materials, assessments, and interactive content to support student learning.
- Mentoring students and providing academic support during office hours.
- Collaborating with faculty and staff to coordinate lab resources and maintain instructional quality.
- Serving as Lab Coordinator for multi-section courses: managing lab schedules, supervising lab preparation, and coordinating with teaching staff.

City of Wichita Falls – TX (June 2025 – Present)

Vector Control Division

- Conducted surveillance and control of disease vectors, primarily mosquitoes and other arthropods, through field sampling and trapping methods.
- Identified insect species and monitored population dynamics to support targeted pesticide application and public health interventions.
- Recorded and reported environmental and entomological data to inform vector management strategies.
- Engaged in public outreach and educational initiatives related to vector-borne disease prevention.
- Gained practical experience in insect ecology, vector-pathogen-host interactions, and integrated pest management systems.

Midwestern State University, Wichita Falls TX (August 2022 - 2025)

Teaching Assistant for Biology

- Delivered lessons and graded assignments.
- One-on-one mentoring is offered.
- Ensured labs were set up and ready for student use.
- Served as a Teaching Assistant for Physiology, Anatomy and Physiology, and Clinical Microbiology.

Research

- Conducted laboratory research under the supervision of Dr. James Masuoka on *Candida albicans* interactions with *Escherichia coli*.
- Performed XTT reduction assays, co-culture experiments, and microbial viability studies.
- Maintained detailed lab notebooks, analyzed data using statistical software, and contributed to manuscript development.
- Assisted in designing experimental protocols and troubleshooting lab procedures.

- Collaborated with faculty to meet project deadlines and ensure data integrity.

City of Wichita Falls, Resource recovery lab, TX (2022 - 2023) and (2023- 2024)

Intern

- Handled chemicals according to safety protocols, adding ammonia, chlorine, or lime to disinfect and deodorize water.
- Tested for pH, turbidity, temperature, dissolved oxygen, filtration methods, and chemical contaminants.
- Various instruments and techniques, such as spectrophotometry and microbiological culture methods, were used.

Bond International Education, Kathmandu Nepal (2019 - 2022)

Teaching Assistant (Part-time)

- Offered one-on-one mentoring and advice to improve student performance
- Prepared course paperwork, delivered lessons, and graded assignments to support teaching.

Vayoda hospital, Kathmandu Nepal (2017-2022)

Lab Technician

- Performing microbiological and biochemical diagnostic tests on clinical specimens.
- Operating and maintaining laboratory instruments such as spectrophotometers, centrifuges, autoclaves, and microscopes.
- Preparing culture media, processing samples, and ensuring proper quality control and biosafety practices.
- Analyzed test results, interpreted clinical relevance, and documented accurate reports for physicians and medical staff.

Manuscript for publication (2025)

Investigating the mechanisms of *Candida albicans* survival in the presence of the human gut bacterium *Escherichia coli*. (Dr. James Masuoka and Tenzin Tashi Shaky)

Activities and Awards:

- **Best Teaching Assistant for Biology (2024) (2025)**
- **Member of Tri-beta Society (2024)**
- **Nepalese Student Association (President) (2024 - 2025)**
- **McAda Grad School Funding Scholarship (2024)**
- **Worley Family Scholarship (2023 - 2024)**
- **Graduate Merit Scholarship (2023 - 2025)**
- **Schenk Scholarship (2023)**
- **International Student Service Scholarship (2022 - 2023)**
- **Sol-Himal Nepal and France Scholarship (2005 - 2021)**