

TAYLOR JEFFERIS

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I am a first-year environmental science graduate student in the Sayes Lab at Baylor University. I am currently working on a standardized and systematic method to conduct aerosol-to-lung interaction studies in a stand-alone chamber capable of simulating occupationally relevant exposure environments. The interaction studies are performed using two different models: the changes in lung surfactant fluid biophysical properties and perturbations in lung cell/tissue biochemical expressions.

EDUCATION

BAYLOR UNIVERSITY

- WACO, TEXAS
- PHD IN ENVIRONMENTAL SCIENCE
- EXPECTED GRADUATION MAY 2027

HOWARD PAYNE UNIVERSITY

- BROWNWOOD, TEXAS
- BACHELOR OF SCIENCE IN BIOLOGY, MINOR IN SOCIAL SCIENCES
- GRADUATED MAY 2023

CLARENDON COLLEGE

- PAMPA, TEXAS
- ASSOCIATES OF SCIENCE
- GRADUATED MAY 2020

PAMPA HIGH SCHOOL

- PAMPA, TEXAS
- HEALTH SCIENCES ENDORSEMENT
- GRADUATED MAY 2020

WORK EXPERIENCE

TEACHING ASSISTANT: HPU DEPARTMENT OF PHYSICAL SCIENCES

- May 2022-December 2022
- Assist professors with laboratory preparation, clean up, and tutoring students. Supervised research and assisted professor with preliminary data collection for potential publication.

TEACHING ASSISTANT: HPU DEPARTMENT OF BIOLOGICAL SCIENCES

- August 2020-May 2022
- Assisting Biology professors with lab set up, clean up, and answering questions.

EXERCISE ASSISTANT: KOBEN PUCKETT

- **March 2020-August 2021**
- Assisting a quadriplegic patient with exercise, stretching, and daily activities

PAST AND PRESENT MEMBERSHIPS

- **BETA BETA BETA BIOLOGICAL HONORS SOCIETY**
 - **UNDERGRADUATE ONLY**
 - **PREVIOUS VICE PRESIDENT OF A NATIONALLY RECOGNIZED BIOLOGY HONORS SOCIETY.**
- **HOSA- FUTURE HEALTH PROFESSIONALS**
 - **UNDERGRADUATE ONLY**
 - **CURRENT SECRETARY OF A NATIONALLY RECOGNIZED ORGANIZATION FOR STUDENTS WHO PLAN TO ENTER HEALTH RELATED FIELDS.**
- **TEXAS ACADEMY OF SCIENCE**
 - **CURRENT MEMBER**
 - **2022 MEETING UNDERGRADUATE ATTENDEE**
 - **2023 MEETING UNDERGRADUATE PRESENTER**
 - **2024 MEETING GRADUATE ATTENDEE**
- **TEXAS SOCIETY OF MICROSCOPY**
 - **CURRENT MEMBER**
 - **2024 MEETING ATTENDEE**

RESEARCH PROJECTS

- **TITLE: INVESTIGATION INTO THE LEACHING OF MICROPLASTICS FROM PLASTIC STORAGE CONTAINERS**
 - **AUTHORS: BRUNETTE, Y.; JEFFERIS, T.; NIGALYE, A.; GIBSON, D.; ZECHMANN, B.**
 - **STATUS: INTENT TO PUBLISH**
- **TITLE: ARE BRITA FILTERS ABLE TO ELIMINATE MICROPLASTICS FROM TAP WATER**
 - **AUTHOR: JEFFERIS, T.**
 - **STATUS: UNDERGRADUATE THESIS**

PROFESSIONAL PRESENTATIONS:

- **"Are Brita Filters Able to Eliminate Microplastics from Tap Water?" Poster Presentation at Texas Academy of Science. Angelo State University, San Antonio, Texas. March 2023.**

RESEARCH TECHNIQUES

- Scanning Electron Microscopy
- Cell Culture
- qPCR