

Tyler M. Trate

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EDUCATION

The Ohio State University, College of Arts and Sciences

Bachelor of Science, Major in Microbiology
Minor in General Business

Columbus, Ohio

May 2026

GPA: 3.5

RELEVANT COURSEWORK

- Organic Chemistry Series with Labs
- Advanced Study of Biopolymers
- Characterization of Macromolecules
- Microbial Bioengineering

RELEVANT SKILLS AND TECHNIQUES

Aseptic Technique, Media Preparation/Uses, Microscopy, Plasmid Preparation, Gas Chromatography, Titration, QC/QA, Staining, Gel Electrophoresis, Serial Dilution, Extraction, Infrared Spectroscopy.

RESEARCH PROJECT

Allergen Research Project, Dr. Erehwon Lab, The Ohio State University

Summer 2024

- Studied murine models of GI tract diseases and conducted mouse experiments to elucidate how and why certain disorders occur more frequently in adults than children

RELEVANT EXPERIENCE

The Ohio State University, Department of Microbiology

Columbus, Ohio

Laboratory Assistant

August 2022 - Present

- Organize and maintain laboratory supplies in order to support research staff
- Conduct laboratory experiments utilizing a variety of lab techniques (microscopy, cell culture, ELISA)
- Keep the lab up to date with university regulations and standards

Saint Anne's Hospital

Columbus, Ohio

Volunteer

March 2023 - August 2023

- Directed patients to various testing and outpatient surgery locations and completed discharge orders
- Transported specimens maintaining research protocol and hospital standards
- Prepared cultured samples in the microbiology laboratory and observed diagnosis techniques

ADDITIONAL EXPERIENCE

The Mud Hens Banquet Room

Toledo, Ohio

Server

May 2022 - August 2022

- Prepared banquet facilities and table arrangements for 50-400 guests adhering to design instructions created by manager
- Served meals and responded to customer requests in a professional manner to ensure a pleasant experience for guests

ACTIVITIES

Spanish Club at Ohio State

Columbus, Ohio

Treasurer

September 2023 - Present

- Maintained accurate accounting of club funds and payments
- Collaborated with executive board during monthly meetings to facilitate club functions