

Grace Stumpf

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EDUCATION

University of Illinois at Urbana-Champaign

Graduation Date: May 2026

Bachelor of Science in Agricultural and Biological Engineering

GPA: 3.08/4.0

Relevant coursework: Transport Processes, Food and Industrial Microbiology, Organic Chemistry, Bioenvironmental Engineering, Biochemical Engineering, Bioprocessing, Thermodynamics, Math and Physics, Electrical Engineering

SKILLS

Technical Skills: Aseptic lab technique, Fermentation technology, AutoCAD, Python, Excel, ArcGIS, Hydraulics Systems, Extraction techniques

EXPERIENCE

Innovation Intern | Sensient Technologies

May 2025-August 2025

- Assist in developing and testing applications of flavor modulation technology and taste creations
- Research and test various flavor encapsulation methods such as spray drying and fluidized beds
- Fermented favor creation of pyrazines and developing innovative extract creation

Fermentation Intern| Integrated Bioprocessing Research Laboratory

May 2024-Present

- Assist in optimizing fermentation processes for companies in the biofuel and biotechnology industries
- Operate fermenters, bioreactors, HPLC, and other bioprocessing instruments in an analytical lab and plant
- Monitor growth parameters, analyzed results of biochemical processes, and help optimize processes to maximize results

Undergraduate Researcher | Institute of Genomic Biology UIUC

January 2024-August 2024

- Collaborate with PhD student in the Leonelli Lab to aid in experimental design and testing
- Prepare solutions, create biological plates, maintain clean, sanitized, and stocked work
- Grow fungal cultures and algae in wastewater samples, analyze results

Groundskeeper | Sugar Creek Golf Course

May 2023-August 2024

- Created presentation outlying the restoration project and changes being made to the course
- Repaired irrigation systems, managed machinery and heavy equipment, operated tools

ACTIVITIES

Illinois Biodiesel Initiative: Research Lead

August 2023-present

- Use waste oil from dining halls and conduct chemical processes to convert it into biodiesel
- Research methods of making our protocol more environmentally friendly and conduct tests
- Lead research meetings and teach students lab techniques and uses of green technology

Students for Environmental Concerns: Media Team

March 2023-present

- Organize events to educate the student population to incorporate sustainability into daily lives
- Create physical media to educate and encourage students to get involved on campus

American Society of Agricultural and Biological Engineers(ASABE):

August 2022-present

- Fellow ASABE national member; collaborate with professors and students in ABE and attend speeches regarding their research

Illinois Alternate Protein Project Outreach Director

August 2024-present

- Design a lab and lecture module for a Biofabrication course at UIUC and organize events for students