

Teagan Allart

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EDUCATION

University at Buffalo, The State University of New York

Bachelor of Science in Chemical Engineering, Minor in Studio Art

Expected May 2024

- Cumulative GPA: 3.76
- Presidential Scholar, Honors Scholar

EXPERIENCE

The University of Michigan Summer Research Opportunity Program (SROP)

Ann Arbor, MI

Undergraduate Researcher

May 2023 – Aug. 2023

- Formulated a linear regression tool in MATLAB to quantify the concentration of reactive oxygen and nitrogen species in plasma-activated water using Beer's Law. Displayed findings at the SROP symposium.
- Identified oxidants, particularly nitrite, interfered with the lab's traditional colorimetric tests. My method accounted for this issue, cut testing time by 75%, and is still used in the lab today.

Dr. Carl Lund's Research Lab

Amherst, NY

Undergraduate Researcher

Jan. 2023 – May 2023

- Developed computational models for a single-packed bed water gas shift (WGS) reactor and two packed bed WGS reactors in series. Minimized total catalyst mass and obtained minimum reactor volume by utilizing Python.
- Showcased research at the Chemical and Biological Engineering Undergraduate Experiences Fair.

National Energy Technology Laboratory, U.S. Department of Energy (DOE)

Pittsburgh, PA

Research Associate

June 2022 – Aug. 2022

- Engineered a model in Excel to understand polyethylene's energy effectiveness at different temperatures with various gasifying agents to advance the thermal chemical treatment of plastic waste.
- Presented at DOE headquarters to industry leaders and later at the Massachusetts Institute of Technology.

PROJECTS

Turbine Design Project

Amherst, NY

CEO

Sept. 2020 – Dec. 2020

- Designed an innovative base that increased power output by approximately 10%. Organized Zoom calls to foster teamwork. Advertised company through Instagram.

LEADERSHIP EXPERIENCE AND ACTIVITIES

American Institute of Chemical Engineers (AIChE)

Amherst, NY

AIChE President

May 2023 – Present

- Direct new initiatives to facilitate networking with local industry and department faculty. Coordinate both social and professional events, such as plant tours, industry seminars, resume workshops, research panels, and hikes.
- Stimulate teamwork among six club officers by delegating tasks, ensuring roles are well-defined, and encouraging collaboration to achieve objectives.

AIChE Secretary

May 2022 – May 2023

- Reviewed and maintained documents and records, responded to emails, and conducted meetings.

Women in Science and Engineering (WiSE)

Amherst, NY

WiSE Mentor (STEM Outreach Program)

Sept. 2022 – Present

- Mentored four high school students in one-on-one meetings and group activities, such as resume workshops.
- After only four mentor sessions and one on-campus event, the percentage of mentees with a strong understanding of STEM careers increased from 30% to 73.3%

WiSE Ambassador

June 2022 – Present

- Supervise events averaging 50 attendees. Empower women in STEM by sharing experiences and guidance.

School of Engineering and Applied Sciences (SEAS)

Amherst, NY

SEAS Ambassador

May 2022 – Present

- Promote SEAS by advising new students, volunteering at open houses, and speaking to incoming classes of 500.

HONORS AND AWARDS

Tau Beta Pi, The National Engineering Honor Society (2023) | AIChE Western New York Local Chapter Outstanding Junior Award (2023) | New York State STEM Incentive Program (2020) | Dean's List (5 times)

SKILLS

Advanced in Microsoft, PowerPoint, and Excel / fast keyboarding skills (100 words/minute) | Proficient in MATLAB and Python