

Tyler Joseph Weinstein

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EDUCATION

University of Pittsburgh, Pittsburgh, PA
Bachelor of Science - Chemical Engineering | Minor: Chemistry
Proficient in: Spanish
Experienced in: Excel, Python, MATLAB
Graduate-level Coursework: Fundamental Transport Processes
Full Tuition Academic Scholarship (University of Pittsburgh)
Dean's List – All Four Years

GPA: 3.93

INTERNSHIP EXPERIENCES

Mascaro Center for Sustainable Innovation – *Research Fellow*

May 2020 – August 2020

- Conducted sustainability research on a novel Shockwave Cavitation Reactor
- Generated Python algorithms for analyzing and modeling laboratory data for reactor performance
- Developed process models to determine reactor behavior and elucidate its complexity

The Sherwin-Williams Company – *Project Engineering Co-Op*

May 2019 – December 2019

- Managed projects to improve Garland, TX/Rochester, PA facilities and learned about engineering applications
- Created purchase orders and other capital documentation to implement new projects
- Analyzed plant data to implement changes in level sensor equipment to improve reliability

Mickey Leland Energy Fellowship – *Research Internship*

June 2018 – August 2018

- Conducted research through the Department of Energy's National Energy Technology Laboratory
- Investigated the development of mixed metal oxides for coal Chemical Looping Combustion
- Synthesized and analyzed mixed metal oxides in oxidation and reduction environments to assess reaction capabilities

UNDERGRADUATE EXPERIENCES

Undergraduate Research Assistant

January 2020 – Present

- Conducted laboratory experiments on the Shockwave Cavitation Reactor
- Investigated the cavitation phenomenon to elucidate the reactor's behavior
- Analyzed different operating conditions to understand process efficiency

Organic Chemistry Teaching Assistant

May 2018 – Present

- Taught three semesters of weekly organic chemistry sessions to solidify concepts and answer questions
- Led special sessions dealing with struggling students to improve their theoretical understanding and exam scores
- Held extra help sessions during the week before exams to discuss exam strategies and give extra practice problems

Resident Assistant (RA)

August 2017 – May 2018

- Received Platinum Programming Award – Cards for Grams Valentine's Day Program
- Served as a resource, aid, and role model for residents in Litchfield Tower B
- Created programs for over 30 students, allowing them to engage with others and navigate the Pittsburgh area

2017 Freshman Engineering Conference – *Best Poster Award*

April 2017

- *The Lithium-Oxygen Battery and the Automotive Industry: A Road to Sustainability*

LEADERSHIP AND ACTIVITIES

oSTEM

August 2018 – Present

- Attended two oSTEM National Conferences to learn more about the LGBTQIA+ community in STEM
- Advocated for greater inclusion of LGBTQIA+ individuals in STEM fields

Zeta Beta Tau Fraternity – *Vice President Internal (May 2018 – May 2019)*

January 2017 – Present

- Head of internal committees and in charge of coordinating various fraternal activities
- Received Scholar of the Year Award (April 2018, 2019); Chris Owen Spirit Award (April 2019)

Interfraternity Council – *Vice President (April 2019 – April 2020)*

August 2018 – May 2020

- Managed and reviewed all council chapters' membership education materials
- Oversaw IFC Recruitment and Programming Chairs, as well as Chapter Housing
- Awarded Council Officer of the Year Award (April 2019)

Tau Beta Pi Honor Society – *Treasurer*

January 2018 – May 2020

- Managed chapter finances in conjunction with the University of Pittsburgh and the Tau Beta Pi Nationals
- Awarded Tau Beta Pi Scholarship – Stabile Scholar (August 2019 – April 2020)