

# Tyler Joseph Weinstein

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## EDUCATION

University of Pittsburgh, Pittsburgh, PA

GPA: 3.93

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

## 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)