

# Benjamin Schwartz

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## EDUCATION

**Lehigh University**, Bethlehem, Pennsylvania

**Bachelor of Science in Integrated Degree in Engineering and Arts & Sciences Honors Program**

Graduation: May 2021

Concentrations: Chemical Engineering and Sustainable Development

**Bachelor of Science in Chemical Engineering**

**Cumulative GPA: 3.91**

Relevant Coursework: Challenges of Sustainable Development, Sustainable Development Solutions, Environmental Values and Ethics, Buddhism and Ecology

Honors: Dean's List

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## RESEARCH AND LABORATORY EXPERIENCE

**Lehigh Mountaintop Experience**

June 2018 – August 2018

**Saving Every Last Drop, Under Professor Mark Snyder**

- The valorization of wastewater through the removal of organic pollutants by adsorption was assessed to determine the viability of scaling this approach to be applied to industrial wastewater purification systems.
- Quantified, interpreted and verified adsorption isotherms for the uptake of Organic Pollutants onto activated carbons by using a UV-Vis, Centrifuge/Vacuum Filtration System to test adsorption capacities at several temperatures. Assembled an Ovito program that fed-back the kinetic diameter of organic molecules input into the system and facilitated communication between a diverse interdisciplinary group of 8 undergraduate and graduate students

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## RELATED EXPERIENCE

**Peer Laboratory Teaching Aide**

August 2018 – Present

Lehigh University, Bethlehem, Pennsylvania

- Advised an undergraduate chemistry lab and assisted Teacher's Assistants in prepping students for future laboratory work by teaching them proper laboratory safety procedures

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## ACCOMPLISHMENTS AND AWARDS

Awardee, **Lehigh University Founders Scholarship**

May 2018

- Merit based scholarship awarding recipients with full tuition to the University. Only awarded to top 1% of the class

**Runner Up**, New Jersey State Science Day

April 2016

- Achieved 2<sup>nd</sup> highest individual score on the State Chemistry Exam in Morris County. Team placed 1<sup>st</sup> in Morris County and 2<sup>nd</sup> in New Jersey.

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## LEADERSHIP AND COMMUNITY INVOLVEMENT

**Founding Member** | Disc Golf Team, Lehigh University

May 2018 – Present

- Guided practices where the basics of disc golf were taught to new members. Enforced the importance of teamwork, cooperation, and dedication to the sport and coordinated efforts with the local disc golf community to create better communication between the university and Bethlehem community.

**Event Coordinator** Sigma Phi Delta Professional Engineering Fraternity, Lehigh University

September 2018 – Present

- Planned and facilitated 20 fraternity events per semester with current members and alumni. Managed a budget which provided for trips to Philadelphia, local sporting teams, professional development workshops, as well as funding for a river cleanup.

**Volunteer/Member** Trout Unlimited, Hacklebarney Chapter

April 2018 – Present

- National Coldwater Fisheries and Watersheds Conservation Organization whose members have a passion for the environment and for fishing. Active participant in multiple river /stream cleanups, preservation efforts, and learning events across New Jersey & Pennsylvania each year

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## SKILLS

- **Proficient** – Matlab, Excel
- **Comfortable** – Arduino
- **Familiar** – Ovito, Autodesk Inventor, Autodesk Fusion