

# Samuel J. Dawley

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## Education

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### Johns Hopkins University

- B.A. Chemistry,
- B.A. Applied Mathematics and Statistics  
Focus on Statistics and Statistical Learning
- Minor in Mathematics
- GPA: 3.82

**Baltimore, MD**

2019 – 2023 (*expected*)

### Dover-Sherborn High School

- GPA: 4.39 (weighted)

**Dover, MA**

2015 - 2019

## Awards and Honors

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### Life Design Lab Grant Recipient, Johns Hopkins University

2021

### Dean's List, Johns Hopkins University

2019 – Present

*All semesters*

- Dean's list for academic excellence goes to students who earn a term GPA of 3.5 or above in a program of at least 14 credits with at least 12 graded credits.

### Lonergan Award, Dover-Sherborn High School

2019

- Award given to the two graduating seniors who best exemplify altruism, character, dignity, integrity, and loyalty; the most prestigious award given by the school.

### Columbia University Book Award, Dover-Sherborn High School

2019

- The Columbia Book Award is presented to "outstanding juniors and seniors at high schools who have demonstrated their commitment to excellence"

## Professional Development

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### Teaching Assistant, Johns Hopkins University

**Baltimore, MD**

- TA for AS.030.228 Intermediate Organic Chemistry Laboratory
- Responsible for teaching students the basics of techniques in organic synthesis, purification, and characterization.

*Spring 2022*

### Research Intern, Massachusetts General Hospital

**Boston, MA**

- Study idiopathic pulmonary fibrosis in the Medoff Laboratory.
- Research includes creating and maintaining tissue cultures, and imaging cultures with confocal microscopy.
- Created Python program to analyze and visualize data collected from tissue cultures.

2021

### Research Assistant, Johns Hopkins University

**Baltimore, MD**

- Involved in the synthesis and characterization of novel organic compounds using advanced analytical techniques. Experience in purification and separation techniques.
- Trained in NMR processing and analysis and mass spectrometry.

2020 – Present

## Volunteering

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### Baltimore City Weed Warriors

- The Baltimore City Weed Warriors is a city-wide program developed to maintain the health of Baltimore's urban forest.

- Volunteered in Druid Hill Park to remove non-native invasive plant species.

#### **Exceptional Citizens' Week at Camp Fatima**

- Volunteer at a sleepaway camp for individuals with mental and physical disabilities. Organize and serve meals as well as prepare the campgrounds for activities such as fairs, parades, and theater productions.

#### **Best Buddies Foundation**

- Raise money for Best Buddies which specializes in creating opportunities for people with intellectual and developmental disabilities through employment and leadership development.
- Volunteer at events which function to connect Buddies to professional opportunities and raise money for the foundation.

#### **Pine Street Inn Homeless Shelter**

- Helped prepare and serve meals to homeless people in Boston before school week.
- Organized transport and meals for the team of student volunteers.

**Gilmanton Iron Works, NH**  
*2015 - Present*

**Boston, MA**  
*2020 – Present*

**Boston, MA**  
*2018 – 2019*

### **Extra-Curricular Activities**

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#### **Chemistry Student Safety Committee, Johns Hopkins University**

- Addressed safety hazards across departmental facilities and individual labs.
- Attended numerous educational trainings for the development of proper lab safety and science laboratory management and conduct.

#### **Tutorial Project Tutor, Johns Hopkins University**

- Responsible for tutoring elementary school students in reading, writing, and mathematics.
- Built students' creative and social skills through educational games and group activities.

#### **Learning Den Tutor, Johns Hopkins University**

- Offered specialized tutoring to students in multiple chemistry and math courses.

#### **Head PILOT Leader, Johns Hopkins University**

- Responsible for providing academic support to students in various classes and produce and distribute problem sets as well as answer keys every week for the class as a study resource for students.
- Head PILOT Leader for Calculus III

#### **First-Year Mentor, Johns Hopkins University**

- Supported incoming students as a resource for academic help and social guidance as they began their first semester of college.
- Trained for and incited discussion about diversity and inclusion, academic advising, and maintaining proper mental health.

#### **Cycling Club at JHU**

- The Hopkins cycling club is a student club focused on promoting a healthy lifestyle of bicycle riding and racing. Club membership is open to all Hopkins students, faculty, and staff from all divisions of JHU and includes cyclists from all backgrounds, disciplines, and fitness levels

**Baltimore, MD**  
*2021 – Present*

**Baltimore, MD**  
*2021 – Present*

**Baltimore, MD**  
*2020 – Present*

**Baltimore, MD**  
*2020 - Present*

**Baltimore, MD**  
*2020*

**Baltimore, MD**  
*2020 – Present*

**Running Club at JHU**

- The running club exists to promote students' personal and athletic development by providing a venue through which each member can continue participating in competitive running, emphasizing personal development, team camaraderie, and achievement of performance goals.

**Baltimore, MD***2020 – Present***Best Buddies Club at JHU**

- Visit Claremont School which specializes in educational services to students with moderate to profound disabilities.
- Engage in an afterschool program to provide activities for students involving ranging from arts and crafts to sports such as basketball and soccer.

**Baltimore, MD***2019 - Present***Swim Team**

- Competed for and captain of the High School Swim Team and was named All-League Swim and Dive Team MVP in 2019.
- Competed for multiple USA swimming sponsored club teams as well as numerous recreational teams

**Massachusetts***2010 - 2019***Swim Coach**

- Taught the fundamentals of swimming to young kids ages 9 to 11 years old. Organized swim meets and tracked accomplishments of swimmers during the season

**Sherborn, MA***2017 – 2018***Skills**

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**Chemistry**

Organic synthesis, column chromatography.

**Miscellaneous**

LaTeX, Microsoft Excel, Microsoft Word, Python.

**References**

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**John Dayton Tovar, Ph.D.**

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