

# Terrence Xiao

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Beijing, China

## Education

### **Swarthmore College**

Bachelor of Sciences, Engineering

Bachelor of Arts, Environmental Studies

**Swarthmore, PA, United States**

*August 2016 – May 2020*

### **Phillips Academy Andover**

High School Diploma

**Andover, MA, United States**

*September 2012 – June 2016*

## Professional Experience

### **Office of Sustainability, Swarthmore College**

*Sustainability and Engaged Scholarship Fellow*

Co-chaired a working group reporting directly to the College's Presidential and Executive Staff on institutional waste management and sustainability issues. Managed an undergraduate research fellowship, in addition to providing teaching assistance, logistical coordination, and project management.

**Swarthmore, PA, United States**

*July 2020 – July 2021*

### **Office of Sustainability, University of Hawai'i at Mānoa**

*Summer Research Fellow*

Assisted in several projects concerning institutional waste reduction and diversion; designed community engagement and publicity programs, researched University procurement practices, organized conferences, and analyzed institutional sustainability metrics and practices.

**Honolulu, HI, United States**

*June 2018 – August 2018*

### **Society of Entrepreneurs and Ecology**

*Summer Intern*

In the secretariat division; conducted Mandarin-English translations for public-facing materials concerning the firm's environmental projects. In the projects division; assisted with ornithological research and ecological site surveys.

**Beijing, China**

*July 2016 – August 2016, July 2017 – August 2017*

## Research and Project Experience

### **Eldridge Common's Aquaponics System**

*Swarthmore College, Engineering Thesis*

Designed and managed a 300-gallon aquaponics system to act as a functional greenspace and research system for the Swarthmore Community, and prototyped an Arduino-based integrated water quality monitoring and management system.

**Swarthmore, PA, United States**

*June 2019 – June 2020*

### **Water Quality and Civil Engineering Cape Town**

*University of Capetown, Directed Study Project*

Conducted research to assess the impact of precipitate formation due to drought-condition flushing practices on sewage infrastructure in Cape Town.

**Capetown, South Africa**

*February 2019 – June 2019*

### **President's Sustainability Research Fellowship**

*Swarthmore College, Research Fellowship*

As a research fellow, I conducted the 'Achieving Zero Waste' project. I designed and implemented a community engagement and education strategy to guide the College's efforts in reaching its institutional Zero Waste goal.

**Swarthmore, PA, United States**

*August 2017 – December 2018*

## Skills & Languages

Native fluency in English, professional proficiency in Mandarin

Experienced in the following coding languages:

Java, Arduino, Matlab

Proficient in the following software suites:

ArcGIS, Microsoft Office, Google Workspace

## Awards

Pennsylvania Environmental Research Consortium

*2021 Campus Sustainability Champion*