

# WYATT T. G. WILLIAMS

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## EDUCATION

**Georgia Institute of Technology, School of Civil and Environmental Engineering**

*Master of Science in Environmental Engineering*

**Atlanta, GA**

*Expected graduation May 2024*

**Washington University in St. Louis**

*Bachelor of Science*

Major: Chemistry; Minors: Spanish and Mathematics

Honors: Dean's List Fall 2018, Fall 2020, Spring 2021 | College Honors

**St. Louis, MO**

*May 2021*

GPA: 3.60/4.00

## WORK/RESEARCH EXPERIENCE

**Gershman, Brickner, and Bratton, Inc.** | Remote

**October 2021 – Present**

*Engineer I*

- Conduct regulation research to support a major tech brand's goal of diverting global renovation waste away from landfills
- Performed a waste composition study for Kent County, MI to aid the choice of processing infrastructure of a Sustainable Business Park aiming to divert 90% of trash, including three weeks of hands-on fieldwork. Modeled GHG avoidances of different material management scenarios using the EPA WARM model.
- Created a 30-year cost model for the U.S. District Court of Guam to assess the cost of the post-closure care of the Ordot Dump
- Consulted for Seneca County General Health District of Ohio, analyzing monitoring reports on the hydrogen sulfide and methane emissions of a landfill to ensure compliance with local health and safety ordinances

**Athena Infonomics** | Washington DC

*Intern*

**June 2021 – October 2021**

- Researched and analyzed barriers to data use in sustainable development, and coauthored framing paper for United Nations in association with Technical Advisory Group for Global Partnership for Development Data (Data4SDGs)
- Assisted with creation of Infonomics Innovation Lab and creation of Lab website
- Researched and analyzed Urban Water Systems and potential application of data use within water management.
- Displayed proficiency with EPANET water modeling software for development of novel application for water modeling

**Tetra Tech Solid Waste West (SWW)** | Diamond Bar, CA

*Research Intern*

**June 2020 – August 2020**

- Reported directly to SWW's Managing Director and supported the team in researching global waste opportunities and initiatives
- Produced and disseminated 19 reports used to recommend relevant, innovative, and sustainable technologies related to anaerobic digestion, chemical polymer recycling, waste management, and refuse derived fuel

**Tolman Lab** | St. Louis, MO

*Undergraduate Research Assistant*

**January 2019 – March 2020**

- Synthesized Cobalt Salen catalysts for the copolymerization of perfectly-alternating polyesters using epoxides and cyclic anhydrides, as well as Aluminum Indolide-Imine complexes for the ring-opening polymerization of lactide
- Researched and presented findings on novel Cobalt and Aluminum catalyst development for copolymerization
- Displayed proficiency in glove box work, air and moisture sensitive techniques,  $^{13}\text{C}$  NMR,  $^1\text{H}$  NMR, 2D NMR, column chromatography, crystallization, Chemdraw, and Mnova

## LEADERSHIP EXPERIENCE

**For Love of Children Tutoring** | Washington, D.C.

**January 2022 – Present**

*Tutor*

- Tutor a third grade student in math once per week, focusing on the Singaporean math education system
- Identified student's strengths and weaknesses, tailoring curriculum and approaches to problem solving accordingly

**Kew Park Library Project** | Washington, D.C.

*Project Leader*

**September 2010 – June 2017**

- Launched project promoting sustainable literacy for Jamaican school children by building, stocking, and maintaining three libraries in Jamaica
- Led student trips to Jamaica to identify areas of literary need, deliver books, and develop relationships with local communities

## PUBLICATIONS

- "The Next Phase in the Climate Change Fight," published in Waste News Magazine (Jan/Feb 2022)
- "Barriers to Data Use in Sustainable Development," created by Athena Infonomics as a contribution for Data Values Project, an initiative of the Global Partnership for Sustainable Development Data (August 2021)

## SKILLS AND INTERESTS

**Skills and Specialties:** Microsoft Office | Regulatory Analysis and Research | Compliance Analysis and Monitoring | Waste Characterization | Anaerobic Digestion | Refuse Derived Fuel | Fieldwork

**Interests:** Cooking and eating, water sports, ecology, Settlers of Catan, traveling, wrestling

**Memberships:** Solid Waste Association of North America (SWANA)