

Margaret Therese Siao

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Highly motivated 1st Year Chemical Engineering Masters Student at the University of Maryland Baltimore County with a strong academic background and a passion for applying theoretical knowledge to real-world engineering problems. Skilled in conducting research, analyzing data, and collaborating with a diverse team to achieve project goals. Seeking opportunities to further develop skills and knowledge in chemical engineering through hands-on experience and practical applications.

Education

M.S. CHEMICAL ENGINEERING

University of Maryland Baltimore County (UMBC) | 2023 – Present
ICARE (Interdisciplinary Consortium for Applied Research in the Environment) Fellow | Cohort 3

B.S. CHEMICAL ENGINEERING

University of Maryland Baltimore County (UMBC) | 2019 -2023

Key Skills

PRESENTATION & TECHNICAL

- Programming: MATLAB, Polymath
- Microsoft Word, Power Point, and Excel
- Technical Writing
- Laboratory Skills

Professional Experience

GRADUATE RESEARCH ASSISTANT | UMBC | MAY 2023 - PRESENT

Working in Dr. Lee Blaney's laboratory underneath the mentorship of Dr. Ke He. I am continuing my work with PFAS data collection, analysis, and interpretation. I am currently attempting to expand the scope of my research to involve the local communities in Baltimore City through the ICARE initiative.

UNDER-GRADUATE RESEARCH ASSISTANT | UMBC | MAY 2022 – MAY 2023

Worked as an Undergraduate Research Assistant in Dr. Lee Blaney's Lab. With Dr. Ke He. My research focused on processing groundwater, wastewater, and biosolid samples to detect PFAS compounds found in the environment and surrounding watershed.

LEARNING AMBASSADOR ASSOCIATE | AMAZON | MAY 2020 – JUNE 2022

- I worked as a Learning Ambassador within one of the Amazon Warehouses in Baltimore. My role includes the standard work as a normal associate but also teaching fellow associates and new hires how to perform the various roles within the building.

Presentation Experience

- **Spring 2023 American Chemical Society (ACS)** – Poster presentation on *Reducing organic interferences for PFAS analysis in biosolids sample.*
- **ICARE Co-Navigator Spring 2024** – Poster presentation on *Ion-exchange membranes as passive samplers for chemically-diverse PFAS.*