

Mary Mahoney

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EDUCATION

Binghamton University, State University of New York

Bachelor of Arts in Physics, Bachelor of Arts in Chemistry

Expected May 2019

Cumulative GPA: 3.86/4.0

Major GPA: 3.80/4.0 (Physics), 3.77/4.0 (Chemistry)

Honors: Dean's List, Fall 2015-Spring 2016, Fall 2017.

Honor Societies: Phi Beta Kappa, Sigma Alpha Lambda

Member of: CoRE, Chess Club, Biochemistry Club, Pre-Medical Association, Pre-SOMA

RESEARCH EXPERIENCE

Binghamton University: Freshman Research Immersion BioMedical Chemistry August 2015 – December 2016

- Learned: Scientific Writing, Elevator Talks, Poster Design

Binghamton University: Freshman Research Immersion Biomedical Chemistry December 2, 2015

- "Investigating Treatment Options for Type Two Diabetes" Public Poster Presentation at Binghamton University

Coauthors: Alexis Knisel, Alfred Malomo, Cindy Ny, and Megan Vetter

An literature exploration into PYY as a possible treatment option for both diabetic adults and pediatric patients

Binghamton University: Freshman Research Immersion Biomedical Chemistry January 2016 – May 2016

- Faculty Lead Research into Glutamate Transporters in DH5 α and Oxidative Stress in HEK 293 Cells

Learned: Site Directed Mutagenesis, Bacterial Transformation, Pipetting, Dilutions, Bacterial culture,

Mammalian Cell Culture, Leica DM8i Fluorescent Microscope, Plate Reader, Hemocytometer, Proposal Writing

Binghamton University: Alexey Kolmogorov's research team January 2016 - May 2016

- Investigating the implications of bio-algorithms in the MAISE project

Freshman Research Immersion Biomedical Chemistry Stream August 2016 – December 2016

- Investigating the antioxidant effects of aspirin to reduce toxicity of colchicine for cancer treatment in A549 cells in a small independent research group.

- Learned: Research Design, Team Work, Communication, Problem Solving.

Binghamton University: Dr. Anthony Di Pasqua's research team January 2017- Present

-Investigating the therapeutic implications of radioactive bandages for basal cell carcinoma.

-Learning: Calculating Radiation Dosages, Radiation Safety, Handling Laboratory Animals.

LEADERSHIP

Cofounder and Secretary of Binghamton University Chess Club January 2016 - Present

-Helped the club get charted, wrote the Chess Club Constitution

-Actively Manage the Facebook page and email server

Historian of Binghamton University CoRE Live and Learn May 2016 - May 2017

-Managed the alumni Facebook page, attended leadership meetings, photographed events, helped run events.

President of Binghamton University CoRE Live and Learn May 2017- Present

-Run weekly meetings and leadership meetings, organize events, dissolve any conflicts.

Physics Student Advisory Committee, Binghamton University Physics Department September 2017-Present

-Appointed position where I solicited opinions of students and conducted surveys for data on physics department teaching staff under tenure review

Peer Advisor, Biochemistry Club September 2017-Present

-Advised an underclassmen STEM major at Binghamton University throughout the semester

VOLUNTEERING

Fairly New Thrift Shop December 2014 – June 2015

Physics Outreach Program Fall 2015; Fall 2017

Hudson Valley Walk to End Arthritis May 2016

EMPLOYMENT

PartyCity September 2014 – November 2015

Sales Associate

Callabar Swim and Tennis June 2015 - August 2015

Lifeguard

Broome County Board of Elections April 2016 – Present

Poll Inspector

Binghamton University School of Pharmacy January 2018 -Present

Standardized Patient

SKILLS

CPR/First Aid/AED and Lifeguard certified by the American Red Cross June 2015

Proficient in Microsoft Excel, Powerpoint, Excel, Word