

Contact

www.linkedin.com/in/wolfgang-mueller-8237181b3 (LinkedIn)

Top Skills

High-Performance Liquid Chromatography (HPLC)

Wet Labs

Coding Experience

Wolfgang Mueller

Chemical Engineering Co-op at Regeneron Pharmaceuticals
Troy, New York, United States

Summary

I am a driven Senior Chemical and Biological Engineering Student at RPI pursuing a bachelors degree. I am currently doing a Co-Op at Regeneron Pharmaceuticals under Dr. Gorgi Pavlov in Formulation Development exploring scale-down models, fluid flows, and protein aggregation properties. During this time I have refined both my wet-lab skills as well as programming and simulation skills as we seek to holistically analyze systems. (patent pending)

I have also done work in Dr. Georges Belfort's research group using molecular dynamics simulations to investigate A-beta peptide's interactions with various cell receptors to help uncover the mechanism of neurotoxicity in Alzheimer's Disease. This study involved traditional MD simulations of proteins on GROMACs as well as analysis of a previous students docking simulation data. (manuscript in progress).

I am currently looking to pursue a PhD, doing research in biological nanotechnology pertaining to custom/designer molecules, nanostructures, and the overall development of how we can use basic biological subunits to fit nearly any application and solve incredible problems.

Experience

Regeneron
Chemical Engineering Co-op
January 2023 - Present (11 months)
Tarrytown, New York, United States

Rensselaer Polytechnic Institute
Undergraduate Researcher
December 2021 - Present (2 years)

Wawa, Inc.

Customer Service Associate

November 2019 - December 2021 (2 years 2 months)

North Wales, Pennsylvania, United States

Haycock Camping Ministries Inc

3 months

Lifeguard

June 2019 - August 2019 (3 months)

Kintnersville, Pennsylvania, United States

Summer Camp Counselor

June 2019 - August 2019 (3 months)

Kintnersville, Pennsylvania, United States

Haycock Camping Ministries Inc

Leadership Growth Program

June 2018 - August 2018 (3 months)

Kintnersville, Pennsylvania, United States

This was a 6 week long program from late June to early august.

Education

Rensselaer Polytechnic Institute

Bachelor's degree, Chemical and Biological Engineering · (August 2020 - May 2024)

North Penn Senior High School

High School Diploma · (2016 - 2020)