

Hassan K. Welsh

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EDUCATION

Goucher College

Baltimore, MD

Bachelor of Arts in Chemistry

May 2025

- Related Coursework: General and organic chemistry, modern methods of chemical analysis, biochemistry, medicinal chemistry, physical and biophysical chemistry

LABORATORY EXPERIENCE

Goucher College

Baltimore, MD

Independent Research, Avagadro lab

Summer 2024

- Used distillation and nuclear magnetic resonance (NMR) to determine the number of molecules in a mole.

National Biological Services, Inc.

Baltimore, MD

Laboratory Technician Intern, Research Division

Dec 2023-present

- Collaborate with government researchers in the clinical trial of cold-adapted influenza virus vaccine (CAIV)
- Complete cGMP documentation for the production of CAIV
- Perform daily online evaluation of product and/or components through antioxidant, breakloose/extrusion, total oxygen content, and spectrophotometric testing
- Manage quality assurance investigations of environmental excursions and implement safety protocol on a monthly basis

TEACHING EXPERIENCE

Academic Center for Excellence, Goucher College

Baltimore, MD

Supplemental Instructor

Sept 2021-present

- Facilitate student learning by reviewing class materials and homework for Introduction to Chemistry
- Demonstrate solid understanding of key concepts and applications of course content
- Maintain communication with professor of the course

LEADERSHIP AND COMMUNITY INVOLVEMENT

Chemistry Club, Goucher College

Baltimore, MD

Member

Sept 2021-present

- Conduct monthly workshops to support first year students for study in laboratory science
- Promote "Service in Science" initiative by posting community research projects on Goucher College Web site

Hispanic Organization for Learning and Awareness, Goucher College

Baltimore, MD

Vice President

Sept 2021-present

- Organize events to help spread knowledge about the Hispanic community
- Participate in service projects that focus on improving the Hispanic community in Baltimore

SKILLS

- Proficient with Microsoft Word, Excel, and PowerPoint, and Google Docs, Drive, and Slides
- Proficient with MATLAB, RStudio, and Spartan Computational Software
- Proficient with common general organic chemistry techniques such as liquid-liquid extraction, solid phase chromatography, thin layer chromatography, simple and fractional distillations, and with the use of a rotary evaporator
- Experience with GC/MS, cyclic voltammetry, IR spectroscopy, UV/Vis spectroscopy, fluorescence spectroscopy, NMR spectroscopy, atomic absorption spectroscopy and HPLC