

Μιχαηλ Μ. Υλριχη

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CHEMIST

As a recent college graduate, I have a strong understanding of chemical processes, methods, and concepts as applied in manufacturing, research, and development. My abilities to seek new and creative solutions by thinking outside the box, organization make me a strong asset.

KEY SKILLS

- Comprehensive understanding of GC Fluorescence, UV/Vis, Mass Spectrometry, Laser Induced Breakdown Spectroscopy, and IR Spectroscopy analysis methods
- Creative Problem Solver
- Strong Communication Skills – Oral and Written
- Team Player/Team Leader/Self-Starter
- Highly Organized Multi-Tasker

EXPERIENCE

UNDERGRADUATE RESEARCH

2019 – 2020

ALVERNIA UNIVERSITY, READING, PA

- Assisted Dr. Joshua Smith on, "Microfluidic Paper-Based Analytical Devices Using Aptamer-Gold Nanoparticle Colorimetric Assay." Synthesized gold-nanoparticle (GNP) assays.
- Controlled size of nanoparticles by developing procedures for monitoring gold-to-citrate ratios.
- Participated in development of surface modifications to attach various functional groups.
- Performed regular and routine UV/Vis and pH analysis of GNPs.
- Targeted biological recognition elements of interest through colorimetric analysis.
- Researched through extensive literature review, various microfluidic techniques.

RESEARCH AND DEVELOPMENT

2019

COSPRO DEVELOPMENT, READING, PA

- Synthesized cosmetic products including shampoos, conditioners, lip balms, and skin toners.
- Developed a formula for substantially less invasive hair dyes.
- Researched effects on hair strands from exposure to various cosmetic formulas.
- Developed hair perfectors synthesizing made-to-order cosmetic products.
- Performed routine inspection of chemical products via viscosity and visual analysis.

UNDERGRADUATE RESEARCH

2017 – 2019

ALVERNIA UNIVERSITY, READING, PA

- Assisted Dr. Joshua Smith on "Collection of Rare Earth Metals Utilizing Silica Coated Nanoparticles," presented at the ACS Conference, 2019.
- Controlled size of nanoparticles using carbon-18 chains by developing various synthesis procedures, some with efficiencies of over 95%.
- Developed surface modifications in which to attach various functional groups.
- Performed routine UV/Vis, Fluorescence, and LIBS analysis of assays.
- Used europium TIDP ligands as a target analyte in tandem with AuNPs.

EDUCATION

Bachelor of Science (B.S.) in Chemistry, Alvernia University, Reading, PA. Awarded research grant summer 2018, Named one of Alvernia's "inspiring students." Dean's list several semesters. Active in Science Association, Graduated 2020