**MARCO MARSHALL**

Huntington, WV | marco.marshall@marshall.edu | 304-696-2370

Linkedin.com/in/marcomarshall

Analytical Chemical Science student with strong research background in experimental design and data interpretation. Focused on applying chemistry principles to solve real-world problems through collaborative research.

**SKILLS SUMMARY**

* Laboratory techniques: titration, chromatography, spectroscopy, electrochemistry
* Instrumentation: UV-Vis, IR, NMR, GC-MS
* Data analysis: Microsoft Excel, OriginLab, ChemDraw
* Research: hypothesis formulation, data collection, scientific writing
* Laboratory safety, chemical handling, waste management
* CPR/AED and First Aid Certified

**EDUCATION**

Bachelor of Science, Chemical Science Expected May 2025

Marshall University Huntington, WV

**RESEARCH EXPERIENCE**

Marshall University Chemistry Department Huntington, WV

Undergraduate Researcher August 2023 – Present

* Investigated the electrochemical properties of transition metal complexes using cyclic voltammetry.
* Synthesized and characterized compounds using NMR and IR spectroscopy.
* Documented experimental procedures and findings for potential publication.

**PROJECTS**

Independent Study Project – Kinetics of Enzyme Catalysis

* Conducted an independent study measuring the rate of enzyme-catalyzed reactions under varying conditions.
* Applied Michaelis-Menten kinetics to interpret experimental data.
* Presented research findings to faculty panel and received commendation for scientific rigor.

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Driven Chemistry student with comprehensive knowledge of analytical and synthetic chemistry. Experienced in laboratory research, instrumentation, and technical reporting.

**SKILLS SUMMARY**

* Laboratory techniques: organic synthesis, titration, spectroscopy, chromatography
* Instrumentation: UV-Vis, IR, NMR, HPLC, GC-MS
* Data analysis: Microsoft Excel, OriginLab, ChemDraw, basic Python for data processing
* Report writing and scientific presentations
* Laboratory safety, chemical storage, waste management

**EDUCATION**

Bachelor of Science, Chemistry Expected May 2025

Marshall University Huntington, WV

*Relevant Coursework: Organic Chemistry, Physical Chemistry, Analytical Chemistry, Instrumental Analysis, Inorganic Chemistry, Thermodynamics, Spectroscopy*

**RESEARCH EXPERIENCE**

Marshall University Chemistry Department Huntington, WV

Undergraduate Research Assistant August 2024 – Present

* Synthesized and purified organic compounds for use in pharmaceutical research.
* Utilized NMR and HPLC to confirm compound structure and purity.
* Co-authored a poster presentation on green chemistry techniques for the university research fair.

**PROJECTS**

Capstone Project – Analysis of Water Contaminants Using Spectroscopy

* Conducted qualitative and quantitative analysis of water samples to detect heavy metals and pollutants.
* Used UV-Vis and Atomic Absorption Spectroscopy to assess contaminant levels.
* Compiled findings into a technical report submitted to the Chemistry Department.