

Curriculum Vitae/Resume: Dylan Vitt

919-721-3301 • dvitt@umich.edu • Ann Arbor, MI • Chemistry Ph.D.

EDUCATION

University of Michigan – Ann Arbor

Doctoral Candidate in Chemistry

- GPA: 3.805

Wilmington, NC

August 2022 - Present

University of North Carolina – Chapel Hill

Bachelor of Science in Chemistry, Minor in Military Science

- GPA: 3.404

Chapel Hill, NC

August 2017 – May 2021

RESEARCH EXPERIENCE

University of Michigan

Graduate Student Research Assistant

- PI: Dr. Stephen Maldonado
- Developing framework for quantitative analysis of semiconductor photoelectrochemical systems using DC cyclic voltammetry
- Designing method for electrochemical synthesis of hypofluorous acid for organic synthesis
- Lab Safety Officer responsible for maintaining a safe working environment

Chapel Hill, NC

August 2022 – Present

University of North Carolina – Chapel Hill

Undergraduate Research Assistant

- PI: Dr. Gerald Meyer
- Conducted experiments quenching ruthenium photocatalysts with halides
- Quantified association coefficients of ruthenium photocatalyst/halide assemblies
- Gained experience with UV-visible absorption, time-resolved and steady-state photoluminescence

Chapel Hill, NC

January 2020 – May 2021

University of North Carolina – Wilmington

Undergraduate Research Assistant

- PI: Dr. Craig Bailey
- Conducted experiments to study the effect of the antimalarial drug quinine on the growth of microorganism populations
- Experimental results were presented on a poster at the 41st Annual Southeastern Phycological Colloquy (SEPC) in October 2019

Wilmington, NC

June 2019

WORK EXPERIENCE

University of Michigan – Ann Arbor

Graduate Student Instructor

- Oversaw two sections of General Chemistry lab totaling roughly 40 students per semester
- Prepared presentations and graded assignments around the overall structure of the class
- Maintained a safe and educational lab environment

Ann Arbor, MI

August 2022 – May 2023

Next Century Spirits

R&D Intern

- Executed a market research project involving chemical analysis of 73 different whiskey samples
- Quantified differences between subtypes of whiskey to assist in company development of new beverages
- Performed multi-variate data analysis via MiniTab software
- Performed stability tests on solutions of color-changing compounds extracted from food products
- Gained experience with UV-visible absorption, pH measurement, and GC-MS devices

Zebulon, NC

September 2021 – December 2021

North Carolina National Guard

Chemical Corps Officer

- Commissioned as a 2nd Lieutenant into the North Carolina National Guard in May 2021
 - Attended Chemical Basic Officer's Leadership Course (CMBOLC) January to May 2022; training to include responding to Chemical, Biological, Radiological, and Nuclear (CBRN) threats and HAZMAT certifications
- Staff CBRN Specialist, 1/120th Infantry Battalion*

Wilmington, NC

May 2021 – Present

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- Advised senior officers on CBRN safety considerations for the 1/120th Infantry Battalion
- Served as Battle Captain during Annual Training, coordinating training for component units and managing all information coming to the main command.

Michigan National Guard

Chemical Corps Officer

CBRN Stryker Reconnaissance and Surveillance Platoon Leader, 460th Chemical Company

- Led platoon in training related to using Stryker vehicles for detection and surveillance of CBRN threats
- Guided 15 Soldiers through career development, fiscal responsibility, and personal fitness

Battle Creek, MI

October 2022 – Present

University of North Carolina – Chapel Hill

Self-employed chemistry tutor

- Led one-on-one sessions assisting students in understanding concepts related to Chemistry 101 and 102 coursework

Chapel Hill, NC

September 2018 – May 2019

AWARDS AND HONORS

Rackham University Research Grant (\$1450)

Fall 2023

PUBLICATIONS

- Michael D. Turlington, Alexander M. Deetz, **Dylan J. Vitt**, and Gerald J. Meyer. Photocatalyst Assemblies with Two Halide Ions. *Journal of Photochemistry and Photobiology* 2022, 9, 100090.

PRESENTATIONS

Electrochemistry Gordon Research Conference Poster Presenter

Title: *Analysis of Silicon Electrochemistry using Cyclic Voltammetry*

Ann Arbor, MI

January 2024

LEADERSHIP & INVOLVEMENT

University of Michigan, Maldonado Lab

Safety Officer

- Oversee safe research practices in the laboratory and address identified safety deficiencies

Ann Arbor, MI

August 2023-Present

Logan Elementary Science Fair

Science Demonstrator

- Performed basic science demonstrations to spark interest and curiosity in students at local middle school

Ann Arbor, MI

April 2023

Army Reserve Officer Training Corps (AROTC)

Cadet

- Participated in classes and extracurricular training amounting to ~8 hours per week
- Performed the highest number of volunteer hours for the ROTC program for 2017-2018 and 2018-2019 years
- Planned and executed the Physical Training program for the ROTC Battalion (~100 cadets) in Fall 2020

Chapel Hill, NC

August 2017 – May 2021

Color Guard Member

- Practiced in weekly classes learning close-order drill and ceremony
- Performed in multiple color guard ceremonies for collegiate sporting games and other events
- Led as a color guard captain training younger cadets in drill and ceremony

August 2017 – March 2019

Epsilon Tau Pi Eagle Scout Honors Fraternity, Omicron Chapter

Vice President

Secretary

- Founding member of Omicron Chapter at UNC Chapel Hill
- Organized community service events including food drives and construction projects for non-profit organizations
- Planned national-level networking convocation for official fraternity organization with ~100 brothers in attendance

Chapel Hill, NC

May 2020 – May 2021

March 2018 – May 2019

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SKILLS

- **Programing Languages:** Intermediate proficiency in LabVIEW; Experience using Python
- **Software:** Experience using Origin Pro, MiniTab, ImageJ, CasaXPS
- **Machining tools:** Experience using machine shop equipment including lathe, band saw, end mill, and drill press

CERTIFICATIONS

Hazardous Materials Awareness	National Fire Service Accreditation Congress, April 2022
Hazardous Materials Operations	National Fire Service Accreditation Congress, April 2022
Hazardous Materials Technician	National Fire Service Accreditation Congress, April 2022

LABORATORY TECHNICAL SKILLS

- Cyclic Voltammetry (CV)
- Linear Sweep Voltammetry
- Open Circuit Potential (OCP) Analysis
- X-Ray Photoelectron Spectroscopy (XPS)
- Nuclear Magnetic Resonance (NMR) Spectroscopy
- Kugelrohr Distillation
- Liquid Chromatography – Mass Spectroscopy (LC-MS)
- UV-Vis Spectroscopy
- Atomic Layer Deposition (ALD)