

Elizabeth Cote

eecote@umass.edu • (413) 545-1557 • linkedin.com/in/eecote/

EDUCATION

University of Massachusetts Amherst, Amherst, MA **2022–present**

Ph. D., Chemistry, Advisor: Dr. James P.S. Walsh

University of New Haven, West Haven, CT **2017–2022**

B.S. Forensic Science, M.S. Chemistry, Advisor: Dr. Dequan Xiao

AWARDS AND HONORS

Emerging Scientist Award Pittsburgh Diffraction Conference 2025	Oct 2025
Marvin D. Rausch Fellowship	May 2025
Marvin D. Rausch Lectureship Award for Outstanding Poster Presentation	Aug 2024
General Chemistry Outstanding Teaching Assistantship "Top-Gun" award	Dec 2023

TEACHING

CHEM111/112 General Chemistry Laboratory	Fall 2022, 2023, 2024; Spring 2023
CHEM 342 Inorganic Laboratory	Spring 2024, 2025
<i>Supervisory Teaching Assistant</i>	Spring 2026
CHEM 477 Physical Chemistry Laboratory	Fall 2025

PUBLICATIONS

- 4. Discovery of the Novel Fluorite-type Niobium Carbide** **2026**
Cote, E. E., Nelson, T. L., Ambos, S. D., Walsh, Corvi, K., C., Brooks, H. L., Whitaker, M. L., Walsh, J. P. S., In preparation.
- 3. High-Pressure Synthesis of a Body-centered Tetragonal Vanadium Carbide** **2026**
Cote, E. E., Nelson, T. L., Ambos, S. D., Arigbede, J., Walsh, C., Brooks, H. L., Bernard, R. E., Whitaker, M. L., Walsh, J. P. S., accepted. Chem. Eur. J.
- 2. High-Pressure Synthesis and Recovery of Single Crystals of the Metastable Manganese Carbide, MnC_x** **2024**
Marshall, P. V., Thiel, S. D., *Cote, E. E.*, Arigbede, J., Whitaker, M. L., Walsh, J. P. S., Chem. Eur. J. 2024, 30, e202401581. DOI: [10.1002/chem.202401581](https://doi.org/10.1002/chem.202401581)
- 1. Combined First-Principles and Experimental Investigation into the Reactivity of Codeposited Chromium–Carbon under Pressure** **2024**
Marshall, P. V., Thiel, S. D., *Cote, E. E.*, Hrubciak, R., Whitaker, M. L., Meng, Y., Walsh, J. P. S., ACS Materials Au 2024 4 (4), 393-402 DOI: [10.1021/acsmaterialsau.3c00086](https://doi.org/10.1021/acsmaterialsau.3c00086)

INVITED PRESENTATIONS

4. College of Natural Sciences Graduate Student Symposium, Amherst, MA Mar 2026
3. American Physical Society Global Physics Summit, Denver, CO. Mar 2026
2. Pittsburgh Diffraction Conference, Upton, NY. Oct 2025
1. 2025 NSLS-II/CFN Users' Meeting, Upton, NY. Apr 2025

ACADEMIC SERVICE AND AFFILIATIONS

Graduate Student Representative

Brookhaven National Laboratory NSLS-II User's Executive Committee

Jun 2024–present

Co-President

Association for Professional Development in Chemistry

Jan 2023–Jan 2026

Associate Chief Justice

Graduate Student Government Supreme Court

Oct 2024–Oct 2025