

CHRISTINA O'MALLEY, PH.D.

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OBJECTIVE

Uniquely qualified scientist and educator with expertise in geology, biology and chemistry with a proven track record of project management, effective communication, and skills in spatial thinking to identify relationships and trends seeking to transition to a role as a geospatial intelligence professional utilizing in-depth knowledge of geology and skills in geospatial analysis.

KEY EDUCATION

Geospatial Intelligence Certificate

University of Maryland, College Park

(expected completion Dec 2024)

PhD Geology

The Ohio State University, Columbus, OH

MS Geology

The Ohio State University, Columbus, OH

BS Chemistry & BS Biology

Wright State University, Dayton, OH

TECHNICAL SKILLS AND COMPETENCIES

- Proficiency in geospatial toolsets including ESRI ArcGIS, ArcMap, Google Earth
- Experience in extracting and editing geospatial data using Geographic Information Systems (GIS)
- Experienced in data visualization, producing map products and presentations
- Subject matter expert in geology, paleontology, biology and chemistry; published peer reviewed research articles
- Excellent communication skills, demonstrated through written, visual, including oral reports and briefings and successful grant writing
- Experience in managing large datasets and manipulating them for various purposes
- Effective resource and inventory management, budget management, and vendor relations
- Mission alignment, team leadership, proven ability to work effectively in a team environment.
- Curriculum development for inquiry-based learning,
- Project management, effective stakeholder collaboration and engagement; performance evaluation of mentees and feedback

PROFESSIONAL EXPERIENCE

LANGLEY HIGH SCHOOL, McLean, VA

2022 – Present

Science Teacher – Geosystems, Biology

- Delivered complex information effectively and facilitated understanding in Geology and Biology to students with diverse needs.
- Demonstrated ability to comprehensively manage resources, create structured environments, and ensure safety of large, diverse teams, 30+ student teams.
- Demonstrated successful mentorship of an active student service organization with six officers and a membership of 100 students, including collaboration with other clubs for collaborative events (including a school blood drive with INOVA Fairfax).

CARROLL HIGH SCHOOL, Dayton, OH

**Science Teacher – AP Biology, Biology, Honors Chemistry, Physics
House Dean**

2015 – 2022

2016 – 2022

- Created instructional materials promote active, inquiry-based learning.
- Secured outside grants to enhance resources, highlighting persuasive writing skills.
- Designed and executed a variety of activities for large groups (120-700 individuals), including competitions, academic initiatives, and charity drives.
- Created and distributed regular (weekly) communication, chair meetings with 12 faculty and 12 student leaders.
- Managed budgets, organized supply orders, and established relationships with repeat vendors.
- Mentored award-winning extracurricular science research teams in project development, research, experimentation, development and presentation.

SELECTED PUBLICATIONS

O'Malley, C.E., W.I. Ausich, and Y.-P. Chin. (2016). Deep echinoderm phylogeny preserved in organic molecules from Paleozoic fossils. *Geology*, 44(5), 379-382.

O'Malley, C. E., Ausich, W. I., & Chin, Y. P. (2013). Isolation and characterization of the earliest taxon-specific organic molecules (Mississippian, Crinoidea). *Geology*, 41(3), 347-350.

SELECTED INVITED PRESENTATIONS

Kuper, Olivia & O'Malley, Christina. (2022) Professional Development Opportunities to Support Student Research. Research Teachers Conference, Society for Science. Washington, DC.

Laux, Sara & O'Malley, Christina. (2020) Teaching Research: Incorporating Scientific and Engineering Practices into Class. Research Teachers Conference. (Virtual) Washington, DC.

O'Malley, Christina and Stigall, Alycia. (2016). Paleontology and K-12 Education: Lesson Planning & Brainstorming Session. myFOSSIL Cincinnati Mini Conference. Cincinnati, Ohio.

SELECTED GRANTS, AWARDS, & HONORS

2016-2022	Thomas Edison Award for Excellence in STEM Education, from The Ohio Academy of Science
2021	ACS-Hach High School Chemistry Classroom Grant, American Chemical Society
2015, '17, '19	Innovative Teaching Grant, Archdiocese of Cincinnati, Cincinnati, OH
2020, 2021	Volunteer of Excellence, Girl Scouts of Western Ohio
2014	STEM Fellow, Montgomery County Education Service Center (Montgomery County, OH)
2011, 2014	American Chemical Society Hach Second Career Teacher Scholarship
2010	Paleontological Society Outreach and Research Grant
2009	Graduate Teaching Assistant Award, School of Earth Sciences, The Ohio State Univ.
2005	Estwing Award, Department of Geology, The Ohio State University

ADDITIONAL EDUCATION

MS Education and Health Sciences, University of Dayton, Dayton, OH

MST Earth Science, Wright State University, Dayton, OH

Gifted Intervention Specialist Endorsement, Wright State University, Dayton, OH