ANDREA CORPOLONGO

Phone: 906-235-4028
AndreaCorpolongo@gmail.com
ORCiD: 0000-0002-8623-358X

University of Cincinnati
Department of Geosciences
500 Geology-Physics Building
Cincinnati, OH 45221-0013

EDUCATION

PhD University of Cincinnati, Geoscience 2024
Dissertation: *Neoarchean Microfossils and Microbialites Inform the Search for Extraterrestrial Life in the Solar System*
Advisor: Dr. Andrew Czaja

MA University of Cincinnati, Philosophy of Science 2024
Supervisor: Dr. Melissa Jacquart

BS Michigan State University, Plant Biology 2004
Concentration: Ecology, Evolution, Systematics
Undergraduate Research Project: *Morphological Differences between Male and Female* Arisaema triphyllum

PROFESSIONAL EXPERIENCE

Adjunct Professor 2025-Current
University of Cincinnati, Department of Geoscience

Postdoctoral Fellow 2024-Current
University of Cincinnati, Department of Geoscience

Mars 2020 Mission Science Team Member 2021-Current
NASA

Contributing Editor 2020-Current
Sciworthy

Invertebrate Paleontology Collections Assistant 2019-20
Cincinnati Museum Center, Geier Collections and Research Center

SKILLS

Instrumentation

Expert
Transmitted light microscopy, Raman microspectroscopy, Confocal laser scanning microscopy

Novice
Scanning electron microscopy, Energy dispersive x-ray spectroscopy, Atomic force microscopy

Data Analysis

Expert
Excel, ImageJ image processing software, Loupe: M2020 SHERLOC Raman and fluorescence spectroscopic analysis software

Proficient
Fytik spectral processing software, Crystal Sleuth spectral processing software

Novice
R programming language

Sample Preparation

Expert
Petrographic thin section preparation, Wet mount slide preparation

Proficient
Solid sample dissolution for chemical analysis

Communication

Expert
Technical writing, Technical presentations, Public education presentations, Microsoft Office

Proficient
Science writing for the public

RESEARCH

PEER-REVIEWED PUBLICATIONS

* denotes mentee author

Clark, J. V., Jakubek, R. S., Conrad, P., Cardarelli, E., Buckner, D., Corpolongo, A., Abbey, W. J., Hand, K., Fries, M., Casbeer, P., Siljeström, S., McCubbin, F. M., Sharma, S., Lee, C., Bhartia, R., & Steele, A. (2026). Deep-Ultraviolet (DUV) Raman and Fluorescence of Perchlorates and Chlorates: Implications for the Detection of Oxychlorines by the SHERLOC Instrument in Jezero Crater, Mars. *Earth and Space Science*, *13*(1), e2025EA004512. https://doi.org/10.1029/2025EA004512

Williford, K. H., Farley, K. A., Horgan, B. H. N., Garczynski, B., Treiman, A. H., Gupta, S., Jones, A. J., Siljeström, S., Clavé, E., Mayhew, L., Osterhout, J. T., Ravanis, E., Stack, K. M., Fagents, S., Bedford, C. C., Bosak, T., Bykov, S. V., Flannery, D., Hand, K. P., … Yingst, R. A. (2026). Carbonated ultramafic igneous rocks in Jezero crater, Mars. *Science*, *391*(6787), eadu8264. https://doi.org/10.1126/science.adu8264

Wong, M. L., Prabhu, A., Alexander, C. O., Cleaves, H. J., Cody, G. D., Hystad, G., Bermanec, M., Bleeker, W., Boyce, C. K., Corpolongo, A., Czaja, A. D., Das, S., Gaines, R. R., Gregory, D. D., Jaszczak, J. A., Javaux, E. J., Jodder, J., Knoll, A. H., Van Kranendonk, M., … Hazen, R. M. (2025). Organic geochemical evidence for life in Archean rocks identified by pyrolysis–GC–MS and supervised machine learning. *Proceedings of the National Academy of Sciences*, *122*(47), e2514534122. https://doi.org/10.1073/pnas.2514534122

Corpolongo, A., Czaja, A. D., Jakubek, R., Fries, M. D., George, A.* (2025) Kerogen Detection in Neoarchean and Eocene Microbialites via Deep UV Raman and Fluorescence Spectroscopy using a SHERLOC Analog Instrument. *Astrobiology*, *25*(11), 793–805. https://doi.org/10.1177/15311074251392897

Jakubek, R., Corpolongo, A., Bhartia, R., Morris, R., Uckert, K., Asher, S., Burton, A., … Steele, A. (2024). Spectral Background Calibration of SHERLOC Raman and Fluorescence

Spectrometer Onboard the Perseverance Rover Enables Identification of a Ubiquitous Martian Spectral Component. *Applied Spectroscopy*. https://doi.org/10.1177/00037028241280081

Siljeström, S., Czaja, A. D., Corpolongo, A., Berger, E. L., Li, A. Y., Cardarelli, E., Abbey, W., Asher, S. A., Beegle, L. W., Benison, K. C., Bhartia, R., Bleefeld, B. L., Burton, A. S., Bykov, S. V., Clark, B., DeFlores, L., Ehlmann, B. L., Fornaro, T., Fox, A., ... Zorzano, M.-P. (2024). Evidence of Sulfate-Rich Fluid Alteration in Jezero Crater Floor, Mars. *Journal of Geophysical Research: Planets*, *129*(1), e2023JE007989. https://doi.org/10.1029/2023JE007989

Neveu, M., Quinn, R., Barge, L., Craft., K., German, C., Getty, S., Glein, C., Parra, M., Burton, A., Cary, F., Corpolongo, A., ... Timm., J. (2024). Future of the search for Life: Workshop report. *Astrobiology, 24*(114-129). https://doi.org/10.1089/ast.2022.0158

Sharma, S., Roppel, R., Murphy, A., Beegle, L., Steele, A., Razzell Hollis, J., Siljeström, S., McCubbin, F., Asher, S., Abbey, W., Allwood, A., Berger, E., Bleefeld, B., Burton, Bykov, Cardarelli, E., Conrad, P., Corpolongo, A., ...Steadman, K. (2023). Diverse organic-mineral associations in Jezero crater, Mars. *Nature, 619*(724–732). https://doi.org/10.1038/s41586-023-06143-z

Sun, V. Z., Hand, K. P., Stack, K. M., Farley, K. A., Simon, J. I., Newman, C., Sharma, S., Liu, Y., Wiens, R. C., Williams, A. J., Tosca, N., Alwmark, S., Beyssac, O., Brown, A., Calef, F., Cardarelli, E. L., Clavé, E., Cohen, B., Corpolongo, A., ... Wogsland, B. (2023). Overview and Results from the Mars 2020 Perseverance Rover's First Science Campaign on the Jezero Crater Floor. *JGR: Planets, 128*(6), e2022JE007613. https://doi.org/10.1029/2022JE007613

Corpolongo, A., Jakubek, R., Abbey, W., Asher, S., Baker, D., Beegle, L., Berger, E., ...Yanchilina, A. (2023). SHERLOC Raman mineral detections of the Mars 2020 Crater Floor Campaign. *JGR Planets, 128*(3). https://doi.org/10.1029/2022JE007455

Razzell Hollis, J., Moore, K. R., Sharma, S., Beegle, L., Grotzinger, J. P., Allwood, A., Abbey, W., Bhartia, R., Brown, A. J., Clark, B., Cloutis, E., Corpolongo, A., ... Yanchilina, A. (2022). The power of paired proximity science observations: Co-located data from SHERLOC and PIXL on Mars. *Icarus*, *387*, 115179. https://doi.org/10.1016/j.icarus.2022.115179

IN-PRESS AND IN-PREPARATION PUBLICATIONS

* denotes mentee author

Corpolongo, A., Czaja, A. D., Manning-Berg, A., George, A.* (in preparation). A 2.5 Ga Microaerophilic Microbial Consortium Preserved via Early Diagenetic Silicification. *Precambrian Research*.

Murphy, A., Uckert, K., Hand, K., Bhartia, R., Bykov, S. V., Hickman-Lewis, K., Jakubek, R. S. ...Corpolongo, A. ...& Yingst, R.A. (in press). Spatially distributed complex organic matter detected in an ancient river valley in Jezero crater, Mars. *Science Advances*.

DISSERTATION, PREPRINTS, AND WHITE PAPERS

Corpolongo, A. (2024). *Neoarchean Microfossils and Microbialites Inform the Search for Extraterrestrial Life in the Solar System*. PhD Dissertation. http://rave.ohiolink.edu/etdc/view?acc_num=ucin1721145153623216

Meadows, V., Graham, H., Abrahamsson, V., Adam, Z., Amador-French, E., Arney, G., Barge, L., Barlow, E., Berea, A., Bose, M., Bower, D., Chan, M., Cleaves, J., Corpolongo, A., Currie, M., Domagal-Goldman, S., Dong, C., Eigenbrode, J., Enright, A., ... Young, L. (2022). Community Report from the Biosignatures Standards of Evidence Workshop. *arXiv*. https://doi.org/10.48550/arXiv.2210.14293

Czaja, A., Corpolongo, A., Gangidine, A., Horgan, B., Kah, L., Osterhout, J., Ruff, S., Shkolyar, S., & Zaloumis, J. (2021). Mars as a compelling target in the continuing search for signs of ancient extraterrestrial life. *Bulletin of the AAS*, *53*(4). https://doi.org/10.3847/25c2cfeb.514f9ffb

AWARDS, GRANTS, AND FELLOWSHIPS

Pending

NSF, Life and Environments Through Time 2026
Co-Primary Investigator
$781,917 to fund the collaborative project: "Distinguishing microbial metabolisms in the fossil record using machine learning"

Awarded

University of Cincinnati, Department of Geosciences 2024
$250 Graduate Research Award

University of Cincinnati 2023
Excellence in Undergraduate Research Mentorship

University of Cincinnati, Department of Geosciences 2023
$1000 Kenneth E. Caster Award for Paleontological Research

Lewis and Clark Fund for Exploration and Field Research in Astrobiology 2022
$2905 in support of fieldwork in the Green River Formation

NASA Future of the Search for Life (FoSL) Workshop Honorarium 2022
$500 in recognition of workshop contributions

University of Cincinnati, Department of Geosciences 2021
$250 Graduate Research Award

NSF, Sedimentary Geology and Paleobiology 2020-24
$312,000 to fund the project: "Life on an oxidizing planet: Microbial ecosystems of a Neoarchean carbonate platform"*

*The PI on this grant is Dr. Andrew Czaja. Authorship of the proposal was approximately 85% A. Corpolongo and 15% A. Czaja. NSF does not allow graduate students to serve as Co-PI on grant proposals.

NSF, Graduate Research Fellowship 2020-24
$138,000 in stipend and scholarship funding

Geological Society of America 2020
Graduate Student Research Award
$575 in support of stable isotope analysis of Archean microbialites

NASA Astrobiology Institute 2019
Early Career Collaboration Award
$5000 in support of fieldwork in South Africa

Paleontological Society 2019
Student Research Grant
Richard K. Bambach Award
$1200 in support of fieldwork in South Africa

PRESENTATIONS

* denotes mentee presenter

Corpolongo, A., Wong, M. L., Anirudh, P., Czaja, A., Hazen, R. M. (2025) "Pyrolysis-GC-MS and Supervised Machine Learning suggest 2.52 Ga Organic Matter may hold Fragmentary Biomolecular Evidence of Photoautotrophy" Poster Presentation. *GSA Connects 2025*. San Antonio, Texas.

Corpolongo, A., Kohl, J.*, George, A.*, Czaja, A. (2025). "2.5 Ga Microbialite Morphology Suggests Micron-Scale Biogeochemical Cycling" Poster Presentation. *Exploring the Abiotic Background*. Carnegie Institute, Washington DC.

Corpolongo, A. (2025). "Neoarchean Microbial Life and the Search for Evidence of Ancient Life on Mars" Oral Presentation. *Invited Talk*. Miami University, Ohio.

Corpolongo, A., Czaja, A., George, A.*, Jakubek, R. (2024). "Comparing relative peak positions in DUV and visible Raman spectra of biogenic calcite, Mg-calcite, and dolomite to support SHERLOC data interpretation" Poster Presentation. *AbSciCon24*. Providence, Rhode Island.

Clark, J. V., Conrad, P., Corpolongo, A., Cardarelli, E., Jakubek, R. S., Buckner, D., Steele, A., & Fries, M. (2024). Deep-UV Raman and Fluorescence of Perchlorates and Chlorates: Implications for the Detection of Oxychlorines by the SHERLOC Instrument in Jezero Crater, Mars. *LPSC 2024*. The Woodlands, Texas.

Jakubek, R. S., Corpolongo, A., Bhartia, R., Uckert, K., Asher, S. A., Burton, A. S., Fries, M. D., Hug, W. F., Lee, C., Scheller, E. L., Sharma, S., & Steele, A. (2024). Raman Spectral Background of SHERLOC. *LPSC 2024*. The Woodlands, Texas.

Corpolongo, A., Czaja, A., Jakubek, R., George, A.*, Kohl, J*. (2023). "Morphological and geochemical analyses of Neoarchean microbialites inform the search for life on Mars" Oral Presentation. *ISSOL 2023*. Quito, Ecuador.

Corpolongo, A. (2023). "Do Astrobiologists Need a Definition of Life?" Poster Presentation. *ISSOL 2023*. Quito, Ecuador.

Corpolongo, A., Potochnik, A. (2023). "Astrobiologists Don't Need a Definition of Life" Oral Presentation. *ISHPSSB 2023*. Toronto, Canada.

George, A.*, Corpolongo, A., Czaja, A., (2023) "Archean Paleontology as an Analog for Possible Martian Life" Poster Presentation. *University of Cincinnati Undergraduate Scholarly Showcase 2023*. Cincinnati, OH.

Corpolongo, A., Jakubek, R., Abbey, W., Asher, S., Baker, D., Beegle, L., Berger, E., ...Yanchilina, A. "SHERLOC Raman Mineral Detections of the Mars 2020 Crater Floor Campaign" Virtual Poster Presentation. *AGU Fall Meeting 2022*.

Kohl, J.*, Czaja, A., Corpolongo, A. (2022). “Sources of silica and carbon in organic-rich cherts from the Neoarchean Gamohaan Formation, South Africa” Poster Presentation. *GSA Connects 2022*. Denver, CO.

Corpolongo, A., Czaja, A.D. (2022). “Evaluating Neoarchean microbial communities through three-dimensional visualization of microbialite structures” Oral Presentation. *Astrobiology Science Conference (AbSciCon 2022)*. Atlanta, GA.

Sharma, S., Beegle, L., Bhartia, R., Shkolyar, S., Berger, E., Corpolongo, A., Czaja, A., Murphy, A., Cloutis, E., Siljeström, S., Steele, A., Yanchilina, A. (2022) “On the hunt for detectable biosignatures in Jezero Crater: What to look for and where” Oral Presentation. *Astrobiology Science Conference (AbSciCon 2022)*. Atlanta, GA.

Corpolongo, A. (2022). “NASA’s Perseverance Rover is searching for signs of ancient life on Mars” Virtual Oral Presentation. *2022 Joint North-Central & Southeastern GSA Section Meeting*. Cincinnati, OH.

Corpolongo, A. (2022). “Deep ultraviolet Raman spectroscopy of Neoarchean microbialites as analogs to possible Mars 2020 samples” Oral Presentation. *2022 Joint North-Central & Southeastern GSA Section Meeting*. Cincinnati, OH.

Czaja, A., Sharma, S., Allwood, A., Benison, K., Corpolongo, A., Gómez, F., Mayhew, L., Sephton, M., Siljeström, S., Williams., A. (2022). “Sampling potential biosignatures with the Mars 2020 Perseverance Rover” Oral Presentation. *2022 Joint North-Central & Southeastern GSA Section Meeting*. Cincinnati, OH.

Kohl, J.*, Corpolongo, A. (2022). “Using 3D Projections to Understand Precambrian Microbialite Morphology” Poster Presentation. *2022 Joint North-Central & Southeastern GSA Section Meeting*. Cincinnati, OH.

Corpolongo, A., Czaja, A.D. (2021). “Neoarchean microorganisms took advantage of a sub-wavebase O_2 gradient approximately 100-200 million years prior to the GOE” Virtual Oral Presentation. *GSA Connects 2021*.

Corpolongo, A. (2021). “Possible Neoarchean Microaerophilic Iron Oxidizing Microorganisms” Oral Presentation. *University of Cincinnati*. Cincinnati, OH.

Corpolongo, A., Czaja, A.D. (2020). “2.5 Ga sub-tidal microfossils of the Campbellrand-Malmani carbonate platform, Kaapvaal Craton, South Africa” Virtual Oral Presentation. *GSA 2020 Connects Online*.

Corpolongo, A., Czaja, A.D. (2020). “Sub-tidal microfossils of the 2.5 Ga Campbellrand-Malmani carbonate platform, Kaapvaal Craton, South Africa” Virtual Oral Presentation. *Virtual AbGradE 2020*.

Corpolongo, A. (2020). “Sub-wavebase microbialites of the Neoarchean Campbellrand-Malmani carbonate platform” Oral Presentation. *University of Cincinnati*. Cincinnati, OH.

Corpolongo, A., Czaja, A.D., Beukes, N.J. (2019). “Microfossils across the Neoarchean Campbellrand-Malmani Carbonate Platform, Kaapvaal Craton, South Africa” Virtual Poster Presentation. *AGU Fall Meeting 2019*.

Corpolongo, A., Czaja, A.D., Beukes, N.J. (2019). “Microfossils from a Range of Depositional Environments across the Neoarchean Campbellrand-Malmani Carbonate Platform,

Kaapvaal Craton, South Africa" Oral Presentation. *The Great Lakes Student Paleoconference*. Ann Arbor, MI.

Corpolongo, A., Czaja, A.D., Beukes, N.J. (2019). "Organic-Walled Microfossils from Basinal to Supratidal Microbialite Facies across the Neoarchean Campbellrand-Malmani Carbonate Platform, Kaapvaal Craton, South Africa" Poster Presentation. *GSA 2019*. Phoenix, AZ.

Corpolongo, A., Czaja, A.D. (2019). "Extra-Large and Morphologically Unique Microfossils of the 2.52 Ga Gamohaan Formation, South Africa" Poster Presentation. *Astrobiology Science Conference (AbSciCon)*. Belleview, WA.

Corpolongo, A. (2019). "Active Learning: Going Beyond Textbook + Lecture = Class" Oral Presentation. *Get Up and Go*, University of Cincinnati. Cincinnati, OH.

Corpolongo, A. (2019). "What Triggered the GOE? Neoarchean Microfossils of the Gamohaan and Frisco Formations" Oral Presentation. *University of Cincinnati*. Cincinnati, OH.

FIELD WORK

Neoarchean Gamohaan Formation, Campbellrand-Malmani Carbonate Platform, South Africa, July 2024

Paleoarchean Moodies Group, Barberton Greenstone Belt, South Africa, July 2022

Neoarchean Gamohaan Formation, Campbellrand-Malmani Carbonate Platform, South Africa, July 2022

Eocene Lake Gosiute, Green River Formation, Colorado/Wyoming, June 2022

Neoarchean Campbellrand-Malmani Carbonate Platform, South Africa, August 2019

PROFESSIONAL DEVELOPMENT

Astrobiology Mission Ideation Factory II Workshop November 2024
NASA Ames Research Center

SHERLOC Team Meeting September 2023
Carnegie Science Institute

Astrobiology Mission Ideation Factory I Workshop August 2023
NASA Goddard Space Center

Gunflint Formation Field Trip Participant August 2022
University of Cincinnati Department of Geosciences

Unlearning Racism in the Geosciences (URGE) 2021
Pod participant

Sharing Science Workshop and Practicum February 2020
Cincinnati Museum Center

2019 IAGD Accessible Field Trip September 2019
Petrified Forest National Park

Mentor Training September 2019
University of Cincinnati Grad/Undergrad Research Connections

Ion Microprobe Student Workshop February 2019

University of California Los Angeles SIMS facility

TEACHING

RECENT TEACHING AND MENTORING EXPERIENCE

Adjunct Professor "Introduction to Geoscience Education" 2025-Current
University of Cincinnati

Undergraduate Research Mentor 2020-Current
University of Cincinnati

Seminar Co-leader "Colonialism and Geoscience" Spring 2021
University of Cincinnati Department of Geosciences

Teaching Assistant "Earthquakes and Society" Spring 2020
University of Cincinnati Department of Geosciences

Teaching Assistant "Astrobiology: Life in the Universe" Fall 2019
University of Cincinnati Department of Geoscience

Teaching Assistant "Geochemistry" Fall 2019
University of Cincinnati Department of Geosciences

Teaching Assistant "Environmental Studies II" Spring 2019
University of Cincinnati Department of Geoscience

Teaching Assistant "Environmental Volcanology" Fall 2018
University of Cincinnati Department of Geosciences

SERVICE

SERVICE TO THE PROFESSION

Geology Outreach Group 2020-Current
University of Cincinnati Department of Geosciences

Grant Reviewer 2026
For the Lewis and Clark Fund for Exploration and Field Research in Astrobiology and Blumberg Grants in Astrobiology

Peer Reviewer 2026
For the journals Frontiers in Astronomy and Space Sciences and American Astronomical Society

Grant Reviewer 2025
For NASA's Science Mission Directorate, Mars Data Analysis, and Solar System Workings programs

NASA Workshop Participant/Onsite Coordinator/Report Contributor 2025
Exploring the Abiotic Background for Life Detection

Peer Reviewer 2025
For the journals JGR: Planets and Nature Communications: Earth and Environment

AbSciCon 2024 Session Chair 2024
Biosignature detection techniques for returned samples

Peer Reviewer 2024
For the journals JGR: Planets, Vibrational Spectroscopy, and Chemical Geology

Social Media Team Member 2021-23
Network for Life Detection, NASA Research Coordination Network

Peer Reviewer 2023
For the journal Geobiology

NASA Workshop Participant/Report Contributor 2022
Future of the Search for Life (FoSL) workshop

AbSciCon 2022 Session Chair 2022
Recent Advances, Development, and New Challenges in Understanding Early Life

Joint North-Central & Southeastern GSA Section Meeting Session Leader 2022
Directions in Geoscience and Careers: Virtual Student Outreach Event

Joint North-Central & Southeastern GSA Section Meeting Session Leader 2022
Geoscience in Plain Language

Expert Reviewer 2022
Life Detection Knowledge Base

North-Central/Southeastern GSA Section Meeting Planning Committee 2021-22
Outreach Subcommittee

NASA Workshop Participant/Report Co-author 2021
Biosignatures Standards of Evidence Workshop

DE&I Committee Student Representative 2020
University of Cincinnati Department of Geosciences

Virtual Science Expo Judge 2020
2020 Virtual Southwest Ohio Science and Engineering Expo

Get Up and Go Teaching Workshop Co-organizer 2019
University of Cincinnati Graduate Association for Teaching Enhancement

Teach Me to Teach Workshop Co-organizer 2019
University of Cincinnati Graduate Association for Teaching Enhancement

Undergraduate Scholarly Showcase Judge 2019
University of Cincinnati

Science Expo Judge 2019
2019 Southwest Ohio Science and Engineering Expo

PUBLIC ENGAGEMENT AND OUTREACH

Boys and Girls Club Outreach Presentation March 2026
Cincinnati Fossils in the Walls

Middle School Outreach Presentation February 2026
Seeking Evidence of Ancient Life on Mars

Middle School Outreach Presentation September 2025
Seeking Evidence of Ancient Life on Mars

Library Outreach Presentation April 2025
Cincinnati Fossils in the Walls

Middle School Outreach Presentation February 2025
Seeking Evidence of Ancient Life on Mars

Library Outreach Presentation March 2024
Cincinnati Fossils in the Walls

Library Outreach Presentation April 2023
Cincinnati Fossils in the Walls

Cincinnati Fossil Hunt Leader May 2022
Girl Scouts of the USA

Trammel Fossil Park Open House Co-leader April 2022
Sharonville Parks and Recreation

Seeking Evidence of Ancient Life on Mars Outreach Presentation March 2021
Cincinnati Astronomical Society

Cincinnati Fossil Hunt Co-leader May 2021
Pleasant Ridge Montessori

Physical Geology Virtual Workshop Co-leader March 2021
Scouts BSA

Elementary School Virtual Outreach Presentation February 2021
Cincinnati Fossils in the Walls

Elementary School Virtual Outreach Presentation February 2021
What is Precambrian Paleontology?

Educational Activity Kit Co-creator May 2020
Discover Fossils of Ohio

Elementary School Virtual Outreach Presentation April 2020
What is Precambrian Paleontology?

Physical Geology Workshop Co-Leader March 2019
Scouts BSA

Elementary School Virtual Outreach Presentation April 2019
What is Precambrian Paleontology?

OUTREACH PUBLICATIONS

Corpolongo, A. (2024, October 28) *Studying Life Before the Cambrian Explosion*. Medium. https://medium.com/fossils-et-al/how-i-study-life-before-the-big-life-explosion-b3327bd89309

Corpolongo, A. (2024, September 24) *Articles about Space Need Better Titles*. Medium. https://medium.com/fossils-et-al/articles-about-space-need-better-titles-49fcbeff2a14

Corpolongo, A. (2024, September 9) *How will the melting Greenland Ice Sheet affect ocean currents?* Sciworthy. https://sciworthy.com/could-the-melting-greenland-ice-sheet-change-ocean-currents/

Corpolongo, A. (2024, June 12) *What is Astrobiology?* Medium. https://medium.com/fossils-et-al/what-is-astrobiology-0797390aef63

Corpolongo, A. (2024, August 5) *NASA Found Possible Signs of Ancient Life on Mars*. Medium. https://medium.com/fossils-et-al/nasa-found-possible-signs-of-ancient-life-on-mars-7ffe55952240

Corpolongo, A. (2021, December 6). *How can we search for life as we don't know it?* Sciworthy. https://sciworthy.com/how-can-we-search-for-life-as-we-dont-know-it/

Corpolongo, A. (2021, October 21). *Mars could host a deep underground biosphere*. Sciworthy. https://sciworthy.com/mars-could-host-a-deep-underground-biosphere/

Corpolongo, A. (2021, August 11). *3.42 billion-year-old fossilized microbes in an ancient hydrothermal vent*. Sciworthy. https://sciworthy.com/3-42-billion-year-old-fossilized-microbes-in-an-ancient-hydrothermal-vent/

Corpolongo, A. (2021, June 22). *How long ago did we learn to move?* Sciworthy. https://sciworthy.com/how-long-ago-did-we-learn-to-move/

Corpolongo, A. (2020, September 1). *Deep-sea mining impacts on diverse ocean ecosystems*. Sciworthy. https://sciworthy.com/deep-sea-mining-threatens-the-foundation-of-diverse-ocean-ecosystems/

Corpolongo, A. (2020, July 28). *Ancient microbes reveal Earth's response to the asteroid that killed the dinosaurs*. Sciworthy. https://sciworthy.com/ancient-microbes-reveal-earths-response-to-the-asteroid-that-killed-the-dinosaurs/

Corpolongo, A. (2020, June 5). *A new way to look for signs of ancient life on Earth and Mars*. Sciworthy. https://sciworthy.com/a-new-way-to-look-for-signs-of-ancient-life-on-earth-and-mars/

MEDIA COVERAGE

Miller, M. (2024, February 22). *The search for signs of life on Mars continues*. Earth.com. https://www.uc.edu/news/articles/2024/02/search-for-life-on-mars-continues-on-third-anniversary-of-rover-mission.html

Gangidine, A. (Host). (2023, January 19). The Perseverance Mars Rover and Ancient Life (No. 10) [Audio Podcast Episode]. In *Cranbrook Paleo Podcast*. Cranbrook Institute of Science. https://science.cranbrook.edu/explore/paleo-podcast

Bangert, B. (2022, September 20). *UC geologists uncover the stories rocks tell, exploring ancient formations along Lake Superior*. UC News. https://www.uc.edu/news/articles/2022/08/on-field-trip-uc-students-faculty-alumni-have-the-stones-and-skills-to-uncover-stories-rocks-can-tell.html

Czaja, A., Corpolongo, A., (2022, August 1). *University of Cincinnati professor, students take part in NASA's Mars research*. Spectrum News 1. https://spectrumnews1.com/oh/columbus/news/2022/08/01/university-of-cincinnati-mars-research#

Miller, M. (2022, July 11). *The Search for Life on Mars*. UC News. https://www.uc.edu/news/articles/2022/06/uc-geology-students-help-nasa-search-for-evidence-of-ancient-life-on-mars.html

Emery, E. (2022, June 23). *The search for life on Mars: how the University of Cincinnati is involved*. Fox 19 Now. https://www.fox19.com/2022/06/23/search-life-mars-how-university-cincinnati-is-involved/

PROFESSIONAL SOCIETIES

American Geophysical Union
International Association for Geoscience Diversity
Geological Society of America
Paleontological Society
Philosophy of Science Association