Phoebe A. Cohen
Professor of Geosciences
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Williamstown, MA 01267
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Education:

- Ph.D. (2010) Harvard University. Department of Earth and Planetary Sciences.
  Dissertation: Investigations of Enigmatic Neoproterozoic Eukaryotes
  Advisor: Andrew H. Knoll
- B.A. with distinction (2002) Cornell University College of Arts and Sciences
  Major: Science of Earth Systems

Professional Experience:

- Full Professor (2024 -) Department of Geosciences, Williams College
- Chair (2021 - 2024) Department of Geosciences, Williams College
- Associate Professor (2018 -) Department of Geosciences, Williams College
- Assistant Professor (2012 - 2018) Department of Geosciences, Williams College
- Education and Outreach Lead (2010 - 2013) MIT NASA Astrobiology Team.
- Postdoctoral Associate (2010 - 2012) Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology
- Assistant to the Director (2002-2004) Paleontological Research Institute

Awards:

- Geological Society of America *50 Under 50* Awardee, 2026
- Geological Society of America Geobiology & Geomicrobiology Division Post-Tenure Award, 2021
- Best Paper, Journal of Paleontology, 2012, awarded at the 2013 Annual Meeting of the Geological Society of America
- Geological Society of America Subaru Outstanding Woman in Science Award, 2012
- Derek Bok Excellence in Teaching Award, Harvard University, 2009

Grants:

- National Science Foundation Grant "Collaborative Research: RUI: Exploring early metazoan reef evolution through a multi-scale approach". 2023-2025 ($105,745)
- Simons Foundation Art-Science Triangle Grant: "In the Sun's Absence" 2023-2024.

- Team recipient of AGU's Science and Society Team Award for URGE: Unlearning Racism in the Geosciences, Fall 2022 American Geophysical Union conference.
- National Science Foundation Grant "Sustaining URGE (Unlearning Racism in Geosciences)", Collaborator, 2021-2022.
- National Science Foundation Grant "Collaborative Research: RUI: "CSI Devonian" - testing Late Devonian ocean anoxia proxies across different paleoenvironments", Co-I, 2021-2024 ($75,161).
- National Science Foundation Grant "Collaborative Research: RUI: Using Organic Carbon Isotopes of Single Microfossils to Illuminate Proterozoic Eukaryotic Ecosystems", Lead PI, 2019-2021 ($79,585)
- Sherman Fairchild Grant to support Data Science Bootcamp for Williams College faculty, 2019-2020.
- American Chemical Society Petroleum Research Fund "Building a High Resolution Record of Organic-Walled Microfossils In Upper Devonian Shales: Paleoenvironmental and Ecological Implications" 2016-2019 ($70,000)
- Geological Society of America Gladys W. Cole Memorial Research Award, "Exploring the Taxonomy and Functional Morphology of the Enigmatic ca. 800 Ma Apatitic Scale Microfossils from Yukon, Canada" 2016-2017 ($8,000)
- NASA Astrobiology Institute Grant, "Foundations of Complex Life: Evolution, Preservation and Detection on Earth and Beyond" (Co-I and Education and Outreach team member), 2013-2019 ($150,856)
- NASA Astrobiology Education and Public Outreach Grant: 'A Traveling Astrobiology Exhibit: Combining Youth Engagement with Public Outreach'; 2011
- Paleontological Society Education and Outreach Grant Award: 'Telling Your Story: Facilitating Relationships between Geoscientists and K-12 Classrooms'; 2010
- Paleontological Society Gould Student Research Award, 2008
- Cushman Foundation Loeblich and Tappan Student Research Award, 2008
- National Science Foundation Graduate Fellowship, 2005-2008

Professional Publications: * denotes current or former undergraduate author

Cohen, P. A., Pippenger, K., & Chilcoat, G. (2026). Linking benthic and pelagic fossil records to extinction dynamics in the Upper Kellwasser Event in the Appalachian Basin. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *704*(114316), 114316.

Sandin, M. M., Cohen, P. A., Morlon, H., & Burki, F. (2026). Environmental phylogenetics supports a steady diversification of crown eukaryotes starting from the mid-Proterozoic. *Proceedings of the National Academy of Sciences of the United States of America*, *123*(29), e2600283123.

Carmichael, S., Cywinski, C., Cohen, P., Königshof, P., Waters, J., Ta, H. P., & Hageman, S. (2026). Expression of the Kellwasser and Rhinestreet Events (Late Devonian) on the Indochina

tectonic block: New data from the Xom Nha Formation in Vietnam. *Gondwana Research: International Geoscience Journal*, *160*, 201–221.

Chilcoat, Gwyneth* and Phoebe A. Cohen (2026) Another Worm Bites the Dust: scolecodont miniaturization in the Late Devonian Biodiversity Crisis. *Paleobiology* Published online 2026:1-10. doi:10.1017/pab.2026.10093

Agić, H., Porter, S. M., Cohen, P. A., Thomas, J. B., & Junium, C. K. (2025). Individual Microfossil δ13C Shows That δ13Corg Excursions in the Neoproterozoic Chuar Group Do Not Reflect the Exogenic Carbon Cycle. *Geobiology*, *23*(3), e70022.

Pippenger, Kate*, Lucas Estrada*, David S. Jones, Phoebe A. Cohen. (2023) Appalachian Basin mercury enrichments during the Late Devonian Kellwasser Events and comparison to global records. *Palaeogeography, Palaeoclimatology, Palaeoecology.* https://doi.org/10.1016/j.palaeo.2023.111751

Roest-Ellis, S., Richardson, J. A., Phillips, B. L., Mehra, A., Webb, S. M., Cohen, P. A., et al. (2023). Tonian carbonates record phosphate-rich shallow seas. *Geochemistry, Geophysics, Geosystems*, 24, e2023GC010974. https://doi.org/10.1029/2023GC010974

Cohen, Phoebe A., Robin B. Kodner (2021) The earliest history of eukaryotes: integrating biological and geological data. Trends in Ecology and Evolution. https://doi.org/10.1016/j.tree.2021.11.005

Cohen, Phoebe A., Christopher Junium, Ezekiel King Philips*, Ben Uveges (2021) Carbon cycle dynamics and ecology revealed by the carbon isotopic composition of single organic microfossils during the Late Devonian Biotic Crisis. Geobiology. https://doi.org/10.1111/gbi.12482

Agic, H., & Cohen, P. A. (2021). Non-pollen palynomorphs in deep time: unravelling the evolution of early eukaryotes. Geological Society, London, Special Publications, 511, SP511–2020–223.

Boyer, Diana, Aaron Martinez, Scott Evans, Phoebe Cohen, Emily Haddad, Katherine Pippenger*, Gordon Love, Mary Droser. (2021). Living on the edge: the impact of protracted oxygen stress on life in the Late Devonian. Palaeogeography, Palaeoclimatology, Palaeoecology. 110226.

Cohen, Phoebe A., Vizcaíno, Maoli*, and Anderson, Ross (2020) Oldest fossil ciliates from the Cryogenian glacial interlude reinterpreted as possible red algal spores. *Palaeontology,* doi: 10.1111/pala.12497

Liljestrand FL, Knoll AH, Tosca NJ, Cohen PA, Macdonald FA, Peng Y, Johnston D. (2020) The triple oxygen isotope composition of Precambrian chert. *Earth and Planetary Science Letters.*1;537:116167. doi: 10.1016/j.epsl.2020.116167

Topaz CM, Ciocanel V, Cohen P, Ott M, Rodriguez N. Institute for the Quantitative Study of Inclusion, Diversity, and Equity (QSIDE). Notices Amer Math Soc. 2020 Feb 1;67(02):1–6.

Abigail Kelly*, Phoebe Cohen, and Diana Boyer (2019) TINY KEYS TO UNLOCKING THE KELLWASSER EVENTS: DETAILED CHARACTERIZATION OF ORGANIC WALLED MICROFOSSILS ASSOCIATED WITH EXTINCTION IN WESTERN NEW YORK STATE. *Palaios. 34 (2): 96-104.*

Cohen, P., Lockwood, R., & Peters, S. (2018). *Integrating Macrostrat and Rockd into Undergraduate Earth Science Teaching* (Elements of Paleontology). Cambridge: Cambridge University Press. doi:10.1017/9781108681445

Lockwood, R., Cohen, P., Uhen, M., & Ryker, K. (2018). *Utilizing the Paleobiology Database to Provide Educational Opportunities for Undergraduates* (Elements of Paleontology). Cambridge: Cambridge University Press. doi:10.1017/9781108681667

P. A. Cohen, L. A. Riedman (2018) It's a protist-eat-protist world: recalcitrance, predation, and evolution in the Tonian–Cryogenian ocean. Emerging Topics in Life Sciences. 5, ETLS20170145–8.

B. T. Uveges, C. K. Junium, D. L. Boyer, P. A. Cohen, J. E. Day (2018) Biogeochemical controls on black shale deposition during the Frasnian-Famennian biotic crisis in the Illinois and Appalachian Basins, USA, inferred from stable isotopes of nitrogen and carbon. Palaeogeography, Palaeoclimatology, Palaeoecology.

Cohen, Phoebe A., Spencer Irvine*, Justin V. Strauss. (2017) Vase-shaped Microfossils from the Tonain Callison Lake Formation of Yukon, Canada: Taxonomy, Taphonomy, and Stratigraphic Paleobiology. *Palaeontology.* 60(5), 883-701, doi: 10.1111/pala.12315

Paul F. Hoffman , Dorian S. Abbot, Yosef Ashkenazy, Douglas I. Ben, Phoebe A. Cohen, Grant M. Cox, Jessica R. Creveling, Yannick Donnadieu, Douglas H. Erwin, Ian J. Fairchild, David Ferreira, Jason C. Goodman, Galen P. Halverson, Malte F. Jansen, Guillaume Le Hir, Gordon D. Love, Francis A. Macdonald, Adam C. Maloof, Gilles Ramstein, Brian E. J. Rose, Catherine V. Rose, Eli Tziperman, Aiko Voigt, Stephen G.Warren. (2017) Climate dynamics of Snowball Earth and Cryogenian geology–geobiology. *Science Advances* 3, e1600983.

Cohen, Phoebe A., Nicholas Tosca, Alan D. Rooney, Mukul Sharma, and Justin V. Strauss (2017) Controlled hydroxyapatite biomineralization in an ~810 million year old unicellular eukaryote. *Science Advances* 3, e1700095.

Cohen, Phoebe A. and Francis Macdonald (2015) The Proterozoic Record of Eukaryotes *Paleobiology.* 41(4), 610-632.

Cohen, Phoebe A., Francis Macdonald, Sara Pruss, Emily Matys, and Tanja Bosak (2015). Fossils of Putative Marine Algae from the Cryogenian Glacial Interlude of Mongolia. *Palaios* 30

(3) 238-247.

Cohen, Phoebe A., and Andrew H. Knoll (2012) Scale Microfossils from the mid Neoproterozoic Fifteenmile Group, Yukon. *Journal of Paleontology* 86 (5), 775-800

Wilson, J.P., Grotzinger, J.P., Fisher, W.W., Hand, K.P, Jensen, S., Knoll, A.H., Abelson, J., Metz, J.M., McLoughlin, N., Cohen, P.A., and M.M. Tice. (2012) Deep-Water Incised Valley Deposits at the Proterozoic-Cambrian Boundary in Southern Namibia Contain Abundant Treptichnus pedum. *Palaios* 27, 252-273

Cohen, Phoebe A., J. William Schopf, Nicholas J. Butterfield, Anatoliy Kudryavtsev, & Francis Macdonald, (2011) Phosphate biomineralization in mid-Neoproterozoic protists. *Geology* v. 39, no. 6, p. 539-542, doi:10.1130/G31833.1

Macdonald, Francis A., and Phoebe A. Cohen. (2011) The Tatonduk inlier, Alaska–Yukon border. In: Arnaud, E., Halverson, G., and Shields, G. Eds., The Geological Record of Neoproterozoic Glaciations, *Geological Society of London Memoir*, London.

Willman, Sebastian and Phoebe A. Cohen. 2011. Ultrastructural Approaches to the Microfossil Record: Assessing Biological Affinities by use of Transmission Electron Microscopy. In: Quantifying the Evolution of Early Life (Laflamme, M., Schiffbauer, J.D., and Dornbos, S.Q., Eds.) Springer, 462 p.

Macdonald, F.A., Schmitz, M.D., Crowley, J.L., Roots, C.F., Jones, D.S., Maloof, A.C., Strauss, J.V., Cohen, P.A., Johnston, D.T., and Schrag, D.P., 2010, Calibrating the Cryogenian: *Science*, v. 327, no. 5970, p. 1241-1243.

Macdonald, F.A., Cohen, P.A., Dudas, F.O., and Schrag, D.P., 2010, Early Neoproterozoic scale microfossils in the lower Tindir Group of Alaska and the Yukon Territory: *Geology* (Boulder), v. 38, no. 2, p. 143-146.

Cohen, Phoebe A., A.H. Knoll and R.B. Kodner. (2009) Large spinose microfossils in Ediacaran rocks as resting stages of early animals. *Proceedings of the National Academy of Sciences*. v. 106, p. 6519 – 6524

Cohen, Phoebe A. Bradley, A., Knoll, A.H., Grotzinger, J.P., Jensen, S., Abelson, J., Hand, K., Love, G., Metz, J., McLoughlin, N. and Meister, P. (2009) Tubular Macrofossils from the Ediacaran Nama Group, Namibia. J*ournal of Paleontology* v. 83, p. 110-122.

Allmon, W.D. and Phoebe A. Cohen (2008). Palaeoecological significance of turritelline gastropod-dominated assemblages from the mid-Cretaceous (Albian-Cenomanian) of Texas and Oklahoma, USA. *Cretaceous Research* v. 29, 65-77

Knoll, A.H., Javaux, E.J., Hewitt, D., & Cohen, P.A. (2006). Eukaryotic organisms in Proterozoic oceans. *Philosophical Transactions - Royal Society of London. Biological Sciences*, v. 361, n. 1470 p. 1023-1038.

Professional Talks & Posters: * denotes undergraduate author

Talia Caskey*, Berutti Bartesaghi, Martina*, Cohen, Phoebe, Junium, Christopher (2025) Tiny Fossils, Big Anomaly: Single Fossil Organic Carbon Isotopes Through the Taishir Anomaly Geological Society of America Abstracts with Programs, 2025

Phoebe A. Cohen, Gwyn Chilocoat*, Katherine Pippenger* (2025) Plankton rise up! The Late Devonian Lower Kellwasser Event in the Appalachian Basin was a benthic extinction Geological Society of America Abstracts with Programs, 2025

Phoebe A. Cohen, Gwyn Chilocoat*, Katherine Pippenger* (2024) MICROFOSSIL DIVERSITY AND ABUNDANCE DURING THE LATE DEVONIAN LOWER KELLWASSER EVENT IN THE APPALACHIAN BASIN: IMPLICATIONS FOR EXTINCTION TRIGGERS AND ECOSYSTEM RESPONSE. North American Paleontological Convention, University of Michigan.

Chilcoat, Gwyn*, Phoebe A. Cohen (2023) SMALL BUT BITEY: MINIATURE SCOLECODONTS OBSERVED DURING THE LATE DEVONIAN LOWER KELLWASSER EXTINCTION EVENT. Geological Society of America Abstracts with Programs, 2023.

Phoebe A. Cohen, Gwyn Chilocoat*, Katherine Pippenger* (2023) SMALL BUT MIGHTY: MICROFOSSIL-BASED INSIGHTS INTO THE LATE DEVONIAN LOWER KELLWASSER EVENT. Geological Society of America Abstracts with Programs, 2023.

Ruiz, Roman*, Cohen, Phoebe, and Junium, Christopher (2022) INTERPRETING SINGLE-FOSSIL AND BULK ORGANIC CARBON ISOTOPES FROM THE MESOPROTEROZOIC VELKERRI FORMATION OF AUSTRALIA TO BETTER UNDERSTAND THE ENVIRONMENTAL CONTEXT OF EARLY EUKARYOTIC EVOLUTION Geological Society of America Abstracts with Programs. Vol 54, No. 5, 2022 doi: 10.1130/abs/2022AM-381814

Chilcoat, Gwyn*, Pippenger, Katherine*, and Phoebe Cohen (2022) THE LATE DEVONIAN KELLWASSER EVENTS IN THE APPALACHIAN BASIN: A SYNTHESIS OF MICROFOSSIL AND GEOCHEMICAL DATA THROUGH SPACE AND TIME Geological Society of America Abstracts with Programs. Vol 54, No. 5, 2022 doi: 10.1130/abs/2022AM-381814

Berutti Bartesaghi, Martina*, Cohen, Phoebe[1], Junium, Christopher[2] and Neuhauser, Emma* (2022) USING SINGLE-FOSSIL ORGANIC CARBON ISOTOPES TO ELUCIDATE THE CRYOGENIAN TAISHIR ANOMALY Geological Society of America Abstracts with Programs. Vol 54, No. 5, 2022 doi: 10.1130/abs/2022AM-381814

Hernandez, Mariana*, Phoebe Cohen, James Busch, Justin Strauss (2022) ENIGMATIC PHOSPHATIC TUBULAR FOSSILS FROM THE EARLY-MIDDLE PALEOZOIC

BOUVETTE FORMATION, YUKON TERRITORY, CANADA Geological Society of America Abstracts with Programs. Vol 54, No. 5, 2022 doi: 10.1130/abs/2022AM-381814

Cohen, Phoebe A. and Kodner, Robin B. Eukaryotes were likely aerobic and established in Proterozoic ecosystems. Geological Society of America Annual Meeting, October 2021.

Agic, Heda, Porter, Susannah, Cohen, Phoebe and Junium, Christopher. INDIVIDUAL ORGANIC-WALLED MICROFOSSIL δ13C DECOUPLED FROM POSITIVE δ13CORG EXCURSIONS IN THE TONIAN CHUAR GROUP. Geological Society of America Annual Meeting, October 2021.

Ruiz, Roman*, Cohen, Phoebe, Byrne, Quinlan*, and Junium, Christopher USING SINGLE-FOSSIL ORGANIC CARBON ISOTOPES TO ILLUSTRATE THE PALEOECOLOGY AND DEPOSITIONAL CONDITIONS OF THE MESOPROTEROZOIC VELKERRI FORMATION OF AUSTRALIA. Geological Society of America Annual Meeting, October 2021.

Chilcoat, Gwyn*, Oh, Ashlyn*, Pippenger, Katherine*, and Cohen Phoebe. A COMPREHENSIVE EXAMINATION OF ABSOLUTE AND RELATIVE MICROFOSSIL ABUNDANCE DURING THE LATE DEVONIAN KELLWASSER EVENTS IN THE APPALACHIAN BASIN. Geological Society of America Annual Meeting, October 2021.

Hernandez, Mariana*, Busch, James, Strauss, Justin and Cohen, Phoebe. ENIGMATIC PHOSPHATIC TUBULAR FOSSILS FROM THE EARLY-MIDDLE PALEOZOIC BOUVETTE FORMATION, YUKON, CANADA. Geological Society of America Annual Meeting, October 2021.

Carmichael, Sarah, Waters, Johnny, Edwards, Cole, Boyer, Diana, Cohen, Phoebe, Konigshof, Peter. HOW ROBUST IS YOUR FAVORITE ANOXIA PROXY? LESSONS WE'RE LEARNING FROM THE LATE DEVONIAN. Geological Society of America Annual Meeting, October 2021.

Hermsen, Elizabeth, Blume, Helaina, Cohen, Phoebe, Haas, Don, Hendricks, Jonathan, Moore, Alexandra. DARING TO DIG: WOMEN IN AMERICAN PALEONTOLOGY. Geological Society of America Annual Meeting, October 2021.

Kodner, Robin B and Cohen, Phoebe A. PRASINOPHYTE GREEN ALGAE AND THEIR MICROFOSSIL ANALOGS: GEOBIOLOGICAL IMPLICATIONS. Geological Society of America Annual Meeting, October 2021.

Junium, Christopher, Cohen, Phoebe, Porter, Susannah, Agic, Heda. LESSONS FROM THE CARBON ISOTOPIC COMPOSITION OF SINGLE ORGANIC WALLED MICROFOSSILS. Geological Society of America Annual Meeting, October 2021.

Duran, Gabriel, Scott Price, Onjali, Adherhold, Kasey, Cohen, Phoebe, Wright, Vashan, Burton, Carlene, Madsen, Stephanie. DESIGNING AND DEVELOPING THE UNLEARNING

RACISM IN GEOSCIENCE (URGE) CURRICULUM. Geological Society of America Annual Meeting, October 2021.

COHEN, Phoebe, BYRNE, Quinlan*, JUNIUM, Christopher K., AGIC, Heda and PORTER, Susannah M., SINGLE FOSSIL ORGANIC CARBON ISOTOPES ILLUMINATE A MESOPROTEROZOIC ECOSYSTEM. Geological Society of America Annual Meeting, October 2020.

AGIC, Heda, **COHEN, Phoebe,** PORTER Susannah, JUNIUM, Chris. CARBON ISOTOPE MEASUREMENTS OF SINGLE ORGANIC-WALLED MICROFOSSILS FROM THE TONIAN CHUAR GROUP, USA REVEAL TAXON-SPECIFIC WATER COLUMN HABITATS. Geological Society of America Annual Meeting, October 2020.

PIPPENGER, Kate*, ESTRADA, Lucas*, JONES, David and **COHEN, Phoebe**. MERCURY CONCENTRATIONS IN THE APPALACHIAN BASIN DURING THE LATE DEVONIAN KELLWASSER EVENTS SHOW NO EVIDENCE OF VOLCANISM. Geological Society of America Annual Meeting, October 2020.

JUNIUM, Christopher K, **COHEN, Phoebe**, UVEGES, Benjamin. SINGLE ORGANIC MICROFOSSILS CARBON ISOTOPES DURING THE LATE DEVONIAN BIOTIC CRISIS, INSIGHTS INTO ECOLOGY AND CARBON CYCLE DYNAMICS. Geological Society of America Annual Meeting, October 2020.

Cohen, Phoebe A., Christopher Junium, Quinlan Byrne*, Susannah Porter (2019) Using organic carbon isotopes of single microfossils to illuminate Proterozoic eukaryotic ecosystems. Royal Society Meeting on Framing an agenda for understanding the origin and rise of complex life.

Cohen, Phoebe A., Alycia Stigall, Chad Topaz (2019) A Gender Analysis of the Paleontological Society: Trends, Gaps, and a Way Forward, Geological Society of America Annual Meeting, September 2019.

Cohen, Phoebe A., Alycia Stigall, Chad Topaz (2019) A Gender Analysis of the Paleontological Society: Trends, Gaps, and a Way Forward, North American Paleontological Convention, June 2019.

Cohen, Phoebe A., Ezekiel King Phillips*, Christopher Junium (2019) Carbon isotopic analyses of single organic-walled microfossils across the Late Devonian Kellwasser Intervals in New York State reveal a strong biological pump, North American Paleontological Convention, June 2019.

PIPPENGER, Kate*, ESTRADA, Lucas*, BOYER, Diana L. and COHEN, Phoebe, Exploring the microfossil record of the late Devonian Hangenberg event in the Cleveland Shale, Ohio. North American Paleontological Convention, June 2019.

PIPPENGER, Kate*, ESTRADA, Lucas*, BOYER, Diana L. and COHEN, Phoebe, EXPLORING THE MICROFOSSIL RECORD OF THE LATE DEVONIAN HANGENBERG

EVENT IN THE CLEVELAND SHALE, OHIO (2018) Geological Society of America Abstracts with Programs. Vol. 50, No. 6, ISSN 0016-7592 doi: 10.1130/abs/2018AM-319362

ESTRADA, Lucas*, PIPPENGER, Kate*, BOYER, Diana L., JONES, David S. and COHEN, Phoebe, MERCURY AND MICROFOSSIL TRENDS DURING END-DEVONIAN EXTINCTION EVENTS (2018) Geological Society of America *Abstracts with Programs.* Vol. 50, No. 6 doi: 10.1130/abs/2018AM-319352

COHEN, Phoebe, Riedman, Leigh Anne (2018) IT'S A PROTIST-EAT-PROTIST WORLD: RECALCITRANCE, PREDATION, AND EVOLUTION IN THE TONIAN–CRYOGENIAN OCEAN (Invited Presentation) Geological Society of America *Abstracts with Programs.* Vol. 50, No. 6 doi: 10.1130/abs/2018AM-318646

Cohen P, King Phillips E*, Kelly A*, Boyer D, Uveges B & Junium C. Using Carbon Isotopes, Trace Metals, and Microfossils to Understand the Late Devonian Kellwasser Events (2018) Goldschmidt Geochemistry Conference *Abstracts with Programs.*

Junium C, Cohen P, King Phillips E* & Uveges B (2018) Single Acritarch Cell Carbon Isotope Analyses: Implications for Geobiology. Goldschmidt Geochemistry Conference *Abstracts with Programs.*

Liljestrand F, Peng Y, Bao H, Macdonald F, Knoll A, Cohen P, Tosca N & Johnston D. (2018) The Geologic Record of 17O and 18O in Chert. Goldschmidt Geochemistry Conference *Abstracts with Programs.*

King Phillips, Ezekiel J.*, Phoebe A. Cohen, Christopher K. Junium, Benjamin Uveges (2017). Examining the marine isotopic gradient through the late Devonian using microfossils from the Kellwasser horizons. Abstracts with Programs - Geological Society of America Annual Meeting.

Junium, Christopher K., Benjamin Uveges, Linda C. Ivany, Rowan C. Martinale, Phoebe A. Cohen, Shibajyoti Das, Alaina Hickey, Ezekiel J. King Phillips* (2017). New approaches to accessing high-resolution biogeochemical signals from ancient organic materials. Abstracts with Programs - Geological Society of America Annual Meeting.

Rooney, Alan D., Justin V. Strauss, Phoebe A. Cohen, Daniel Condon, Mark D. Schmitz (2017). New Re-Os and U-Pb age constraints for the biological innovations and geochemical and climactic perturbations of the Neoproterozoic. Abstracts with Programs - Geological Society of America Annual Meeting.

Cohen, Phoebe A., Justin V. Strauss, Alan Rooney, Mukul Sharma, and Nicholas Tosca (2016) The first appearance of controlled eukaryotic biomineralization in the Neoproterozoic fossil record. Abstracts with Programs - Geological Society of America Annual Meeting.

Vizcaino, Maoli*, Phoebe A. Cohen, Ross P. Anderson, and Francis A. MacDonald (2016) Morphology and stratigraphic distribution of putative tintinnid fossils from the Tsagaan Olom Group, Mongolia. Abstracts with Programs - Geological Society of America Annual Meeting.

Kelly, Abigail*, and Phoebe A. Cohen (2016). Organic-walled microfossil assemblage variation through the late Devonian Kellwasser events in New York state. Abstracts with Programs - Geological Society of America Annual Meeting.

Cohen, Phoebe A., Abigail Kelly*, and Robin B. Kodner (2016) Taxonomic Affinity of Late Devonian Organic-walled microfossils: Implications and Interpretations. Abstracts with Programs - Geological Society of America Northeastern Section Meeting.

Irvine, Spencer*, Justin V. Strauss, and Phoebe A. Cohen, (2015) Abundance and morphological variation of vase-shaped microfossils from the late Tonian Callison Lake Formation, Yukon. Abstracts with Programs - Geological Society of America Annual Meeting.

Kelly, Abigail*, and Phoebe A. Cohen (2015). Determining the abundance of microfossils across the Lower Kellwasser Event in Upstate New York. Abstracts with Programs - Geological Society of America Annual Meeting.

Cohen, Phoebe A. and Barker, Henry* (2015). A reexamination of the diversity and stratigraphic distribution of the early Tonian apatitic scale microfossils, Fifteenmile Group, Yukon. Abstracts with Programs - Geological Society of America Annual Meeting.

Irvine, Spencer*, Phoebe A. Cohen, Justin V. Strauss (2014) Taphonomy of vase-shaped microfossils from the late Tonian Collision Lake Dolostone, Yukon. Abstracts with Programs - Geological Society of America Annual Meeting.

Cohen, Phoebe A. and Francis A. Macdonald. (2014) Controls on eukaryotic fossil diversity in the Tonian and Cryogenian. Abstracts with Programs - Geological Society of America Annual Meeting.

Stamp, Laura*, Phoebe A. Cohen, Justin V. Strauss. (2014). Paleobiology, sedimentology, and distribution of chert in the Tonian Fifteenmile Group of the Yukon-Alaska Mount Slipper assemblage. Abstracts with Programs - Geological Society of America Annual Meeting.

Ignatiadis, Mary*, Phoebe A. Cohen, Francis A. Macdonald. (2014). A diverse fossil assemblage from the early Neoproterozoic Reefal Assemblage of the Fifteenmile Group, Coal Creek Inlier, Yukon. Abstracts with Programs - Geological Society of America Annual Meeting.

Kodner, Robin B., Phoebe A. Cohen, Kelly Tellez* (2014). Reassessing the role of Prasinophyte Algae in modern and ancient oceans. Abstracts with Programs - Geological Society of America Annual Meeting.

Paradis, Michelle*, David S. Jones, Phoebe A. Cohen (2014). Implications of Sulfate reduction on dolomite formation at Deep Springs Lake, California. KECK Geology meeting, Mount Holyoke College.

Irvine, Spencer*, Justin Strauss, Phoebe A. Cohen (2014). Preservation and Diversity of Vase Shaped Microfossils from the Callison Lake Dolostone. STEPPE Geology meeting, Smith College.

Cohen, Phoebe A. (2013). Progress and Challenges in Assessing Proterozoic Eukaryotic Diversity. Abstracts with Programs - Geological Society of America Annual Meeting.

Cohen, Phoebe A., E. Matys, S. Pruss, F. Macdonald, and T. Bosak (2012) Macroscopic algal fossils from the Cryogenian of Mongolia. Abstracts with Programs - Geological Society of America Annual Meeting.

Justin V. Strauss, Andrew H. Knoll, Phoebe A. Cohen, and Francis A. Macdonald. (2012) Diverse vase-shaped microfossils in the Neoproterozoic Callison Lake dolostone, Coal Creek Inlier, Yukon Territory, Canada. Abstracts with Programs - Geological Society of America Annual Meeting.

Cohen, Phoebe A., and Irene Porro (2012) A Temporary, Portable, Astrobiology Exhibit: Combining Youth Engagement with Public Outreach. Astrobiology Science Conference 2012

Cohen, Phoebe A., Andrew H. Knoll (2011) Expanded Diversity of Scale Microfossils from the mid Neoproterozoic Fifteenmile Group, Yukon. Abstracts with Programs - Geological Society of America Annual Meeting.

Cohen, Phoebe A., Peter Mangiafico, David Patterson, and Roger E. Summons (2010). Moving WebQuests Forward in a Connected World: A Case Study using the Ediacaran Fauna. Abstracts with Programs - Geological Society of America Annual Meeting.

Cohen, Phoebe A., J. William Schopf, Nicholas J. Butterfield, Anatoliy Kudryavtsev, & Francis Macdonald (2009). Phosphatic Biomineralization of Early Neoproterozoic microfossils from the Yukon Territory. Abstracts with Programs - Geological Society of America Annual Meeting.

Cohen, Phoebe A., Schopf, W.J, Butterfield, N.J., Macdonald, F.M. (2009) Apatite microfossils from the Pre-Sturtian aged Lower Tindir Group, Yukon Territory. Abstracts with Programs – North American Paleontological Convention.

Cohen, Phoebe A., Robin B. Kodner, Andrew H. Knoll (2008). Evolutionary, Ecological, and Paleoenvironmental Implications of Acritarchs as Metazoan Resting Stages. Abstracts with Programs - Geological Society of America Annual Meeting.

Cohen, Phoebe A., Robin B. Kodner, Andrew H. Knoll (2007). Expanding the Taxonomic Affinities of Ediacaran and Phanerozoic Acritarchs. Palaeontological Association Annual Meeting, Uppsala, Sweden.

Cohen, Phoebe A. & A.H. Knoll (2007) Exploring the Taxonomic Affinities of Neoproterozoic and Paleozoic Acritarchs. Abstracts with Programs - Geological Society of America Annual Meeting.

Cohen, Phoebe A., Bradley, A. S., Knoll, A.H., et al. (2006). Tubular Macrofossils from the Nama Group, Namibia. Abstracts with Programs - Geological Society of America, 38.

Cohen, Phoebe A. & P. Sadler. (2005). High resolution biostratigraphic correlation of acritarch diversity in the Neoproterozoic and earliest Cambrian using CONOP9. Abstracts with Programs - Geological Society of America, 37(7), 369.

Allmon, W.D., Cohen, Phoebe A., (2003). Paleoecological significance of a Turritelline gastropod-dominated limestone in the Lower Cretaceous of Texas. Abstracts with Programs - Geological Society of America, 35(6), 502.

Recent Outreach and DEI Activities:

- Co-host, writer, and producer of Podcast Jax and Phoebe Make a Planet: https://makeaplanetpod.earth/
- Scientific consultant and featured scientist for NOVA/BBC co-production *Ancient Earth: Frozen,* 2023, https://www.pbs.org/wgbh/nova/video/ancient-earth-frozen/
- Successfully fundraised over $42,000 on Kickstarter to start an earth-history themed podcast called Jax and Phoebe Make a Planet (https://www.kickstarter.com/projects/makeaplanetpod/jax-and-phoebe-make-a-planet?ref=user_menu
- *Using Carbon Isotopes in Astrobiology: Origin of Life and beyond* teaching activity accepted into the Teach the Earth Exemplary Teaching Activity collection at the Science Education Resource Center (2022)
- Co-facilitated National Association of Geosciences Teacher (NAGT) workshop "Towards a more inclusive geosciences: Teaching strategies and policies to support all students", April 14th, 2022.
- Founding co-organizer of URGE: Unlearning Racism in Geosciences community-wide reading group 2020-2021, and Williams College URGE Pod leader, 2021.
- Contributing writer, editor, and exhibit designer for Daring to Dig: Women in American Paleontology exhibit at the Museum of the Earth / Paleontological Research Institution.
- Hosted and contributed to Science in the (Virtual) Pub: Women in Paleontology to celebrate the opening of Daring to Dig: Women in American Paleontology exhibit at the Museum of the Earth / Paleontological Research Institution.
- Book reviewer for The Bearded Lady Project: Changing the Face of Women in Science, Columbia University Press and The Last Days of Dinosaurs by Riley Black.
- Introductory talk on "What's Paleontology Really About?" for Science on the Screen showing of Jurassic Park, Images Cinema, Williamstown MA, May 13th, 2017.
- Participated in Greylock Talks series at Greylock High School, March 13th, 2017 – "Mass Extinctions: A Brief History of Life's Worst Moments"
- Produced and hosted 6-episode podcast on women in science "Female of the Species", 2016

- Organized and spoke at science communication storytelling event The Story Collider, Williams College, April 15th, 2016; organized and ran accompanying science storytelling workshop for Williams College students April 16th, 2016.
- Wrote script for TED Ed video on Fossilization: http://ed.ted.com/lessons/how-to-fossilize-yourself-phoebe-a-cohen
- Invited panelist, *Ancient Earth, Alien Earths: What Old Earths Can Tell Us About Planets Around Other Stars*, NASA Headquarters & NASA TV, August 20, 2014

Invited Research Talks:

- Virtual Seminars in Precambrian Geology, October 10th, 2024, *Single-fossil δ13C isotopes reveal Proterozoic eukaryotic paleobiology: two use cases from Mesoproterozoic acritarchs and Cryogenian algae*
- Keynote invited speaker at the Lunar and Planetary Institute's Advancing Inclusivity, Diversity, Equity, and Access (IDEA) in Planetary Science conference, April 29th, 2022 "Finding and strengthening my voice as an IDEA advocate in earth and planetary science"
- Keynote invited speaker at the Yale University Department of Earth and Planetary Sciences' Women in Science day, April 7th, 2022.
- Invited speaker for department seminars at Brown University, University of Maine, University of California at Berkeley, and Bennington College, 2022.
- University of Southern California and University of California Riverside, 2021
- Paleontological Research Institution Summer Symposium (2020) A Gender Analysis of the Paleontological Society: Trends, Gaps, and a Way Forward.
- Johns Hopkins University (2019)
- University of Massachusetts Amherst (2019)
- Wesleyan University (2019)
- Cornell University & The Paleontological Research Institution Darwin Days Keynote talk, "The evolution of life before animals: gasping for breath and dodging snowballs.", February 2018
- Agouron Project Workshop: Unraveling the Record of Early Eukaryotic Evolution in Arctic Canada, May 18th, 2017
- Dartmouth College Department of Earth Sciences, April 14th, 2017
- University of Wisconsin-Madison Department of Geosciences, March 31st, 2017
- Syracuse University Department of Geosciences, February 2nd, 2017
- Amherst College Department of Geosciences, May 4th, 2016
- Pomona College Department of Geosciences, March 29th, 2016
- University of Connecticut Center for Integrative Geosciences Department Seminar, December 1st, 2015
- Smith College Earth Sciences Department Seminar, March 26th, 2015.
- Penn State Earth Sciences Department Seminar, March 17th, 2015.

- Yukon Science Institute Seminar, June 9th, 2014
- Bennington College Science Seminar, April 5th, 2013.
- Geobiology Symposium, McGill University, February 24th, 2012.
- MIT Chemical Oceanography and Biogeochemistry Seminar, October 15th, 2010.
- Smithsonian Natural History Museum Paleobiology Seminar Series, June 24, 2010.
- Frontiers in Paleontology and Geomicrobiology, May 14-15, 2010, Yale University.
- University of Chicago Department of Geophysical Sciences, October 2nd, 2009.
- Friday Harbor Marine Labs, July 23rd, 2009.
- Cornell University Department of Earth and Atmospheric Sciences, January 21st 2009.
- New England Society for Microscopy Annual Meeting, December 4th, 2008.
- Geobiology of the Proterozoic-Cambrian Symposium, Yale University, 2007.

Short Courses and Professional Workshops:

- Guest presenter, National Association of Geoscience Teachers webinar on "Towards a more inclusive geosciences: Teaching strategies and policies to support all students" Pedagogy, 2022.
- Guest presenter, National Association of Geoscience Teachers webinar on Being Human in STEM initiative, December 1st, 2020.
- Co-Organized Northeast Geobiology Meeting (125 participants) at Amherst College, March 2019.
- Organized "Social Mindfulness for STEM+" workshop as part of Williams College TeachWeek 2019
- Co-Organizer and speaker, Paleontological Society Short Course, "Pedagogy and Technology in the Modern Paleontology Classroom", November 3rd, 2018, Indianapolis IN.
- Co-Leader, Paleobiology and Earth History Educational Hack-a-thon, March 2018, Bethesda, MD.
- Working with Diverse Students on Societally Relevant Geoscience Issues webinar, InTeGrate SERC program, May 11th, 2016.
- Invited member to NASA / NSF / Smithsonian Institution workshop: "Beyond Habitability: Life and the Early Earth", August 2014
- Sedimentary Geology, Time, Environment, Paleontology, Paleoclimate, and Energy Program (STEPPE) short course; "Biological and Environmental Transitions During the Neoproterozoic and Paleozoic", February, 2014 at Smith College.
- Invited member to "Scientific drilling and the Evolution of the Earth System: Climate, Biota, Biogeochemistry, and Extreme Events," NSF funded workshop, Norman OK, May 17-19, 2013
- NAGT/NSF On the Cutting Edge Workshop for Early Career Geoscience Faculty, June 10-15, 2012

- Geological Society of America short course 521 Virtual Field Experiences in Geoscience Education (presenter). 2011.
- Geological Society of America short course 508 Education Research I: Conducting Qualitative Geoscience Education Research, 2010. (participant)
- Geological Society of America short course 518. Education Research II: Conducting Quantitative Geoscience Education Research, 2010. (participant)
- Agouron Institute, Advanced Geobiology Field course (Namibia), June 2006. (participant)
- USC Wrigley / Agouron Institute International Geobiology course, June-July 2005. (participant)

Field Work:

- Neoproterozoic Little Dal Group, Northwest Territory, Canada, July-August 2024 (with Caroline Nadalin ’27)
- Devonian of Upstate New York, June 2018 (with Kate Pippenger ’20 and Lucas Estrada ’19)
- Devonian of Upstate New York, June 2015 (with Henry Barker ’18 and Abby Kelly ’16)
- Devonian of Upstate New York, June 2014 (with Kelly Tellez ’17 and Mary Ignatiadis ‘16)
- Neoproterozoic Fifteenmile Group, The Yukon Territory, June 2014 (with Laura Stamp ‘16)
- Lower Paleozoic of Western Newfoundland, July 2013.
- Neoproterozoic Fifteenmile Group, The Yukon Territory, June-July 2012.
- Shark Bay, Western Australia, June 2011.
- Flinders Range, Ediacaran localities, Southern Australia, April 2010.
- Neoproterozoic Fifteenmile Group, Alaska and The Yukon Territory, June 2007
- Ediacaran Nama Group, Namibia, June 2006.
- Ordovician Beaverfoot Formation, Canadian Rockies, September 2005.

Gallery Shows:

- “In the Sun’s Absence” – Squeaky Wheel Gallery, Buffalo NY, March – May, 2024, in collaboration with Jason Livingston and funded by the Simons Foundation.

Teaching Experience:

- GEOS 411: Carbon, Spring 2026
- GEOS 414, Reading Deep Time, Spring 2023 (Freeman Foote travel course)

- GEOS 314, Analytical Historical Paleobiology, Spring 2020
- GEOS 107, Astrobiology, Fall 2020 and 2021
- GEOS 106, Being Human in STEM, Fall 2019
- GEOS 101, Co-Evolution of Earth and Life, Williams College, Fall 2012, 2013, 2014, 2016, 2018, 2019, 2023, 2025
- GEOS 311, Geobiology, Williams College, Fall 2014
- GEOS 212, Paleobiology, Williams College, Spring 2013, 2014, 2015, 2017, 2019, 2020, 2022, 2024, 2025
- GEOS 312T, Mass Extinctions, Williams College, Spring 2014 (Freeman Foote travel course), 2018, 2022

Student Research Mentoring: Senior Thesis Students in Bold

- **Michelle Paradis** ’14 – KECK Senior Thesis student: “Sulfate reduction at Deep Springs Lake and its potential role in mediating dolomite precipitation”
- Nakita VanBiene ’15 – Semester research assistant
- **Abby Kelly ’**16 – Senior Thesis student: “Organic-Walled Microfossil Assemblage Variation through the Kellwasser Events of the Late Devonian Mass Extinction”
- **Spencer Irvine** ’16 – Senior Thesis student: “The Abundance, Taxonomy, and Taphonomy of Vase-shaped Microfossils from the Callison Lake Formation, Yukon, Canada”
- Cody Remilard ’16 – Semester research assistant
- Kim Kipligat ’16 – Summer Science Program research assistant
- Laura Stamp ’16 – Clare Boothe Luce Fellow and Semester research assistant
- Mary Ignatiadis ’16 – Clare Boothe Luce Fellow and Semester research assistant
- Quinn Griffin ’16 – Summer research assistant
- **Maoli Vizcaino** ’17 – Allison Davis Fellowship and Senior Thesis student: “Reinterpretation of putative tintinnid lorica fossils from the Neoproterozoic Tsagaan Olom Group, Mongolia”
- Gabby Markel ’17 – Semester research assistant
- Kelly Tellez ’17 – Summer Science Program research assistant
- Brian Coakley ’18 – Summer research assistant
- **Ezekiel King Phillips** ’18 – Mellon Mayes Fellowship research student and Senior Thesis student.
- Henry Barker ’18 – Semester research assistant
- Jared Bathen ’20 – Semester research assistant
- Sara Shamanek ’20 – Semester research assistant
- Lucas Estrada ’19 – Semester and summer research assistant
- **Katherine Pippenger ’20** – Semester and summer research assistant, CBL Scholar, Senior Thesis student.
- Quinlan Byrne ‘ 20 – Semester and summer research assistant, independent study student.
- Kira Stanfield-Pazmino ’22 - Semester (summer science) research assistant

- Annalee Tai ’21 - semester and summer research assistant
- Caroline Douglas ’23 - - semester and research assistant
- Nicholas Ambeliotis ’23 - semester and research assistant
- **Mariana Hernandez ’23** - summer and semester research assistant, ADRF mentee, thesis student.
- **Roman Ruiz ’22** - summer research student, Senior Thesis student
- **Gwyn Chilcoat ’24** - summer and semester research assistant, senior thesis
- Ashlyn Oh ’23 - summer and semester research assistant
- Martina Berrutti Bartesaghi ’24 - summer and semester research assistant, ADRF mentee.
- Emma Neuhauser ’25 - summer and semester research assistant
- Ari Quasney ’25 - semester research assistant
- Emily Salinas Romero ’25 - summer research
- Ainsley Ogletree ’25 - summer research
- **Caroline Nadalin ’27** – research assistant & senior thesis student
- Amina Levites-Cohen ’27 – research assistant
- **Talia Caskey ’27** – research assistant & senior thesis student
- Moe Rusley ’28 – research assistant
- Shahir Bey ’28 – research assistant
- Trinity Pujols ’28 – research assistant

- Thesis committee member for PhD defense of Therese Sallstedt, University of Southern Denmark, August, 2016
- PhD thesis committee member for Ben Uveges, Syracuse University, 2018

Service to the Profession:

- Chair, Paleobiology Database Executive Committee 2025-present
- NSF Sedimentary Geology and Paleobiology Panel 2023
- Board Member, Paleontological Research Institution and the Museum of Earth, term 2022 - 2028.
- NSF Graduate Research Fellowship Program Panel, 2021
- NASA Exobiology Grant Review Panel, August 2020
- Member of Geological Society of America Culture Task Force 2020
- Paleontological Society Council Member-at-large, 2019-2021
- Inaugural member of the Paleontological Society Ethics Committee, 2019-**2022**
- Member of the editorial board for Elements of Paleontology, 2018 - 2021
- Elected member of Paleobiology Database Executive Committee, 2017-2020
- Co-organizer for Paleontological Society Short Course on paleontological education at the undergraduate level at the Geological Society of America Meeting, Fall 2018
- Topical editor for the Paleontological Research Institution’s “Teacher Friendly Guide to Climate Change” and “Introduction to Paleobiology and the Fossil Record” (2nd edition)

- Host and organizer, Fall 2016 all-hands meeting of MIT NASA Astrobiology Team
- Panel reviewer for the National Science Foundation Sedimentary Geology and Paleontology, Fall 2015
- Member, Cornell University Department of Earth and Atmospheric Sciences Advisory Board, 2013-2016
- Paleontological Society Representative to the Geological Society of America Annual Meeting Joint Technical Program Committee, 2013-2014
- Paleontological Society Social Media Coordinator, 2012-2016
- Paleontological Society Education and Outreach Committee member, 2010 - 2022
- Paleontological Society Communications Committee member, 2011 - 2020
- Topical Session Organizer, Geological Society of America Annual Meeting, 2014: The Tonian-Cryogenian World
- Reviewer for *Proceedings of the National Academy of Science, Precambrian Research, Geology, Palaios, Alcheringa, Journal of Paleontology, Nature Geoscience, Nature Communications,* and *Geobiology*.
- Ad hoc Grant reviewer for the National Science Foundation, Petroleum Research Fund, NASA, Paleontological Society Education grants, KECK foundation

Service to Williams College:

- Inaugural President of Williams College chapter of the AAUP 2025 – present
- Chair of the Lecture Committee 2025 – 2026
- Faculty guide, Williams College Alumni Trip, Galapagos islands, March 2025
- Leader of Williams College Geoscience URGE: Unlearning Racism in Geosciences Pod, Spring 2021
- Co-leader with Alice Bradley of GEOS department Diversity, Equity and Inclusion Plan, Fall 2020
- Faculty Lecture, Spring 2019
- Sigma Xi Lecture, Spring 2019
- Co-leader, Williams College First3 new faculty orientation & professional development program, 2018-2020
- Mini-reunion lecture, Fall 2019
- Ran field trip for Summer Science Program, Summer 2019
- Member, Data Science and Digital Humanities Strategic Planning Group
- Seminar Co-organizer, Williams College Geoscience seminar series, 2013-2014 and 2016-2017
- Member, Williams College Claire Booth Luce scholars program committee, 2013-2016
- Member, Williams College Campus Environmental Advisory Committee, 2013-2014
- Member, Williams College Faculty Review Panel, 2013-2014
- Member, Williams College Committee on Educational Policy, 2014-2015

- Member, Williams College Women and Gender Studies Advisory Committee, 2014-2015
- Member, Williams College Faculty Steering Committee, 2016-2017.
- Speaker at campus events including Alumni Weekend, Alumni Giving recognition event, Admitted Students Day, Summer Science program, and new faculty orientation.