

Phoebe A. Cohen
Department of Earth and Planetary Sciences
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Education:

B.A. (2002) Cornell University College of Arts and Sciences: Science of Earth Systems
Concentration: Paleobiology

PhD. Candidate (spring 2010) Harvard University. Earth and Planetary Sciences
Dissertation: *Investigations of Enigmatic Neoproterozoic Eukaryotes*
Advisor: Andrew H. Knoll

Work Experience:

Assistant to the Director, Paleontological Research Institute & The Museum of the Earth, 2002-2004

Awards:

- Derek Bok Excellence in Teaching Award, Harvard University, 2009
- Paleontological Society Gould Student Research Award, 2008
- Cushman Foundation Loeblich and Tappan Student Research Award, 2008
- National Science Foundation Graduate Fellowship, 2005-2008
- Harvard University Department of Earth and Planetary Sciences Student Field Work grant, 2007
- Alfred W. Stickney Fellowship, Harvard University, 2005

Publications:

Cohen, Phoebe A., J. William Schopf, Nicholas J. Butterfield, Anatoliy Kudryavtsev, & Francis Macdonald (submitted to *Science*). Phosphate biomineralization in early Neoproterozoic protistan microfossils.

Francis A. Macdonald, Mark Schmitz, Jim Crowley, Charlie Roots, **Phoebe A. Cohen**, Eddie Haam, Peter Huybers, Justin V. Strauss, David S. Jones, Adam C. Maloof, David T. Johnston, Daniel P. Schrag (in press at *Science*) Calibrating the Cryogenian.

Macdonald, F.A., **P. Cohen**, F. Dudas, D. Schrag. (in press at *Geology*) Early Neoproterozoic mineralized scale microfossils in the Tindir Group of Alaska and the Yukon Territory.

Macdonald, F.A., and **P. Cohen**. (in press) The upper Tindir, east-central Alaska. In: Arnaud, E., Halverson, G., and Shields, G. Eds., *The Geological Record of Neoproterozoic Glaciations*, Geological Society of London Memoir, London.

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*. 106: 6519 – 6524

Cohen, Phoebe A. *et al.* (2009) Tubular Macrofossils from the Ediacaran Nama Group, Namibia. *Journal of Paleontology* 83: 110-122.

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

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

Invited Talks:

“Two New Views of Neoproterozoic Life: Biomineralization in early Eukaryotes and an Ediacaran record of Metazoans” University of Chicago Department of Geophysical Sciences, October 2nd, 2009.

“Making it in hostile waters: Metazoan evolution in stressful Ediacaran seas.” Friday Harbor Marine Labs, July 23rd, 2009.

“Beyond the Ediacarans: New Views of the Neoproterozoic”. Cornell University Department of Earth and Atmospheric Sciences, January 21st 2009.

“Fossils under the Gun: EM Applications to the study of early life”. New England Society for Microscopy Annual Meeting, December 4th, 2008.

"The expanding taxonomic affinity and hidden diversity of Neoproterozoic acritarchs". A world in transition: Geobiology of the Proterozoic-Cambrian Symposium, Yale University, 2007.

Professional Talks & Posters:

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). Paleocological significance of a Turritelline gastropod-dominated limestone in the Lower Cretaceous of Texas. *Abstracts with Programs - Geological Society of America, 35(6)*, 502.

Short Courses:

- Agouron Institute, Advanced Geobiology Field course (Namibia), June 2006.
- USC Wrigley / Agouron Institute International Geobiology course, summer 2005.

Field Work:

- Neoproterozoic Tindir Group, Alaska and The Yukon Territory, June 2007.
- Ediacaran Nama Group, Namibia, June 2006.
- Ordovician Beaverfoot Formation, Canadian Rockies, September 2005.

Teaching Experience:

- **Teaching Fellow**, Harvard University Department of Organismic and Evolutionary Biology, Paleobiological Perspectives on Ecology and Evolution, Spring 2009. Developed 10 new labs for upper level undergraduates and graduate students. Received teaching award for the semester.
- **Teaching Fellow**, Harvard University Core Program, B-57, Dinosaurs and Their Relatives, Spring 2008.
- **Teaching Fellow**, Harvard University Department of Earth and Planetary Sciences, EPS 8, History of the Earth, Spring 2006. Developed 3 new labs for upper level undergraduates.
- **Teaching Fellow**, Harvard University Department of Earth and Planetary Sciences, A43, Environmental Risks & Disasters, Fall 2006.
- **Teaching Assistant**, Cornell University, Department of Earth and Atmospheric Sciences, Paleobiology, Fall 2003.
- **Teaching Assistant**, Cornell University, Hawaii Earth Science Field Course, January 2002.

Education and Outreach:

- Co-organizer, “sideWalk Through Time” collaborative art and science education program at the Harvard Museum of Natural History, September 2009.
- Instructor, Harvard Museum of Natural History adult education course, “From Bacteria to Bones: Exploring the Rise of Complex Life on Earth”, March, 2008.
- Presentations on research and paleontology to 8th grade earth science students, Bigelow Middle School, Newton MA, 2007.
- Instructor, Science Club For Girls, Spring 2005, Cambridge Middle Schools.

Other Activities:

- **Earth and Planetary Sciences Graduate Student Board Member**, Harvard Graduate Women in Science and Engineering, 2007-2009
- **Student Representative**, The Paleontological Society, 2006-2008
- **Seminar Co-organizer**, Earth History and Paleobiology Seminar Series, Harvard University, 2006-2008
- **Earth and Planetary Sciences Graduate Student Representative**, Harvard University Graduate Student Council, 2007-2008
- **Graduate Student Representative**, Harvard University Earth and Planetary Sciences Green Team, 2005-2007.
- **Symposium Co-organizer**, Geobiology of the Neoproterozoic-Cambrian II, Harvard University, April 25th 2008