

# CURRICULUM VITAE

## 1. Jessica H. Whiteside

Assistant Professor  
Department of Geological Sciences

## 2. Work Address

Brown University, Box 1846  
Providence, RI 02912

## 3. Education

Ph.D. (with Distinction), Earth and Environmental Sciences, Columbia University (at Lamont-Doherty Earth Observatory), New York, NY, 2006.

Dissertation: *Catastrophic, Climatic, and Biotic Modulation of Ecosystem Evolution*

M.Phil. Earth and Environmental Sciences, Columbia University (at Lamont-Doherty Earth Observatory), New York, NY, 2004.

M.A. Earth and Environmental Sciences, Columbia University (at Lamont-Doherty Earth Observatory), New York, NY, 2003.

B.A., Geology, (*Magna cum Laude*), Mount Holyoke College, South Hadley, MA, 2001.

## 4. Professional Appointments

July, 2006 to present: Assistant Professor, Department of Geological Sciences, Brown University

Nov., 2005 to Nov. 2007: Guest Researcher, Department of Chemistry and Geochemistry, Woods Hole Oceanographic Institution.

Sept., 2001 to July, 2006: Faculty Fellow, Department of Earth and Environmental Sciences, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY.

July, 2000 to Sept., 2001: Research Assistant to Prof. Lynn Margulis, Department of Geosciences and Graduate Program in Organismic & Evolutionary Biology, University of Massachusetts-Amherst.

Oct., 1999 to June 2000: Trilobite curator for Prof. Euan Clarkson, Department of Geology and Geophysics, University of Edinburgh and the Royal Museum of Scotland, U.K.

Aug., 1999 to Oct., 1999: Micropaleontologist/biostratigrapher (Student Conservation Association Diversity Intern), Minerals Management Service, US Interior Department, New Orleans, LA.

June 1999 to Aug., 1999: Aquatic ecologist/limnologist (DOE Energy Undergraduate Research Fellow), Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN.

Jan., 1999 to Feb., 1999: Micropaleontologist, Minerals Management Service, US Interior Department, New Orleans, LA.

June 1998 to Aug., 1998: Aquatic ecologist/limnologist (DOE Energy Undergraduate Research Fellow), Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN.

### 5.1. Refereed journal articles and book chapters

- Whiteside, J.H., Olsen, P.E., Eglinton, T.I., Montluçon, D., Brookfield, M.E., Sambrotto, R.N., Triassic-Jurassic carbon cycle disruptions begin before and last long after eruption of giant flood basalts (*Nature*, ready for submission).
- Whiteside, J.H., and Vankeuren, M.A., 2009, Multiproxy Environmental Characterization of Lake Level Cycles in the Green River Formation of Utah and Colorado. US Open File Report (in press).
- Whiteside, J.H., Olsen, P.E., Kent, D.V., Fowell, S.J., Et-Touhami, M., 2008, Synchrony between the CAMP and the Triassic-Jurassic mass-extinction event? Reply to comment of Marzoli et al. *Palaeogeography, Palaeoclimatology, and Palaeoecology*, v. 262, p. 194-198.
- Olsen, P.E., and Whiteside, J.H., 2008, Pre-Quaternary Milankovitch cycles and climate variability, in Gonitz, V. (ed.), *Encyclopedia of Paleoclimatology and Ancient Environments*, Earth Science Series, Kluwer Academic Publishers, Dordrecht, the Netherlands p. 826-835 (ISBN: 978-1-4020-4551-6).
- Whiteside, J.H., 2008, Mass extinction at the Triassic-Jurassic boundary and the ascent of the dinosaurs, in Elewa, A.M.T., (ed.), *Predation in Organisms: A Distinct Phenomenon*, Springer, New York (in press; invited).
- Whiteside, J.H., Olsen, P.E., Kent, D.V., Fowell, S.J., Et-Touhami, M., 2007, Synchrony between the CAMP and the Triassic-Jurassic mass-extinction event? *Palaeogeography, Palaeoclimatology, and Palaeoecology*, v. 244, p. 345-367.
- Olsen, P.E., Whiteside, J.H., Smoot, J., 2006, Lacustrine Cyclicity and the Triassic-Jurassic Transition. Geological Society of America, Field Guide for the 2006 Meeting, Philadelphia, PA, *The Mosasaur*, 78p.
- Margulis, L., Dolan, M., Whiteside, J.H., 2005, “Imperfections and oddities” in the origin of the nucleus, *Paleobiology*, v. 31, p. 175-191.
- Olsen, P.E., Whiteside, J.H., Fedak, T., 2005, Triassic-Jurassic faunal and floral transition in the Fundy Basin, Nova Scotia. North American Paleontological Congress Field Guidebook, North American Congress, Halifax, 52p.
- Olsen, P.E., Whiteside, J.H., LeTourneau, P.M., Huber, P., 2005, Jurassic cyclostratigraphy and paleontology of the Hartford basin. In Skinner, B.J., and Philpotts, A.R., (eds.), 97<sup>th</sup> New England Intercollegiate Geological Conference, Department of Geology and Geophysics, Yale University, New Haven Connecticut, p. A4-1 – A4-51.
- Olsen, P.E., Whiteside, J.H., Fedak, T., 2005, Field Trip A7: The Triassic-Jurassic faunal and floral transition in the Fundy Basin, Nova Scotia. Geological Association of Canada, Mineralogical Association of Canada, Canadian Society of Petroleum Geologists, Canadian Society of Soil Sciences, Joint Meeting, Halifax, Atlantic Geoscience Society, Halifax, 53 p.
- Whiteside, J.H., 2005, Medical symbiotics: towards an ecology of medicine, in Margulis L., and Aiskainen C. (eds.), *The Human Brain in the Context of Natural History: 3000 million years of evolution of sensory systems*, MIT Press, Cambridge p. 314-332.
- Dolan, M.F., Wier, A.M., Melnitsky, H., Whiteside, J.H., and Margulis, L., 2004. Cysts and symbionts of *Staurojoenina assimilis* Kirby from *Neotermes*. *European Journal of Protistology*, v. 40, p. 257–264.
- Olsen, P.E., Kent, D.V., Whiteside, J.H., 2004, The Newark Basin, The Central Atlantic Magmatic Province, and the Triassic-Jurassic Boundary. Field Trip for the 8th Annual DOSECC Workshop on Continental Scientific Drilling, May 22-25, 2004. Rutgers University New Brunswick, New Jersey, DOSECC, Salt Lake City, 45 p.
- Sagan, D., and Whiteside, J.H., 2004, Prismatic Progress, in Rothenberg, D. (ed.) *Writing the Future: Progress and Evolution*, MIT Press, Cambridge, p. 63-72.

- Sagan, D., and Whiteside, J.H., 2004, Gradient-Reduction Theory: Thermodynamics and the Purpose of Life, in Crist, E. and Schneider, S. (eds.), *Scientists Debate Gaia: The Next Century*, MIT Press, Cambridge, p. 173-186.
- Whiteside, J.H., 2004, Arboreal Stromatolites: A 210-Million Year Record, in Lowman, M.D., and Rinker, B. (eds.), *Forest Canopies* (Physiological Ecology Series), 2nd edition. Academic Press, p. 147-149.
- Olsen, P.E., Whiteside, J.H., Huber, P., 2003, Causes and consequences of the Triassic-Jurassic mass extinction as seen from the Hartford basin, in Brady, J. B. and Cheney, J.T. (eds.) *Guidebook for Field Trips in the Five College Region, 95th New England Intercollegiate Geological Conference*, Department of Geology, Smith College, Northampton, Massachusetts, p. B5-1 - B5-41.
- Margulis, L., Sagan, D., Whiteside, J., 2002, The evolution of composite individuality: From cells to cities, *Kosmos*, The Humboldt Foundation: Berlin, April, p. 23-25.

## 5.2 Non-refereed articles

- Sagan, D., and Whiteside, J.H. 2001, Design explained: The Goldilocks paradox. Swift.

## 5.3 Abstracts

- Johnson, J., Whiteside, J., Trewin, N., Andrews, S., Johnson, C., 2008, Orbital forcing of Devonian lacustrine ecosystems. *Eos Transactions, American Geophysical Union*, 89(53), Fall Meeting Supplement, Abstract #PP21B-1424.
- Vankeuren, M.A., Whiteside, J.H., Eglinton, T.I., 2008, Astronomical pacing of ecosystem function in the Green River Formation of Utah and Colorado. *Eos Transactions, American Geophysical Union*, 89(53), Fall Meeting Supplement, Abstract #PP33B-1550.
- Whiteside, J.H., Olsen, P.E., Eglinton, T. I., Cornet, B., Huber, P., McDonald, N.G., 2008, Milankovitch Modulation of the Ecosystem Dynamics of Fossil Great Lakes. *Eos Transactions, American Geophysical Union*, 89(53), Fall Meeting Supplement, Abstract #PP3B-1535.
- Whiteside, J.H., Olsen, P.E., Eglinton, T., 2007, Timing is everything: ecological vs evolutionary pacing of Triassic-Jurassic carbon cycle disruptions. *Eos Transactions, American Geophysical Union*, Supplement, v. 88 (52), Abstract GP54A-06.
- Whiteside, J.H., Olsen, P.E., Et-Touhami, M., 2007, Carbon isotopic excursion below CAMP basalts, Moroccan Association of Petroleum Geologists, Marakech, Maroc, 28 October – 31 October 2007 (invited).
- Olsen, P.E., Whiteside, J.H., Kent, D.V., Et-Touhami, M., 2006, Pattern and pace and origin of change through the continental early Mesozoic as seen in Eastern North America and Morocco, La 5 Réunion du Groupe Marocain du Permien et du Trias aura lieu à la Faculté des Sciences Chouaïb Doukkali, El Jadida, Maroc du 26 au 29 avril 2006, Résumés, p. 65.
- Olsen, P.E., Whiteside, J.H., McRoberts, C., Et-Touhami, M., 2006, The first 200ky of the Early Jurassic in eastern North America and Morocco, La 5 Réunion du Groupe Marocain du Permien et du Trias aura lieu à la Faculté des Sciences Chouaïb Doukkali, El Jadida, Maroc du 26 au 29 avril 2006, Résumés, p. 65.
- Whiteside, J.H., Olsen, P.E., Kent, D.V., Eglinton, T.I., 2006, Double Precessional Cycles and Traversodont Cynodont-Dominated Provinces in Equatorial Pangea, *Eos, Transactions, American Geophysical Union*, Supplement, v. 87, PP41A-1180.

- Whiteside, J.H., Olsen, P.E., 2006, Double Precessional Cycles and Associated Traversodont Cycles of Latest Triassic Pangea, The Second International Paleaeontological Congress, Beijing, China, p. T10-9 (invited).
- Whiteside, J.H., Et-Touhami, M., Olsen, P.E., 2006, Carbon isotopic test of Triassic age of the lower Central High Atlas Basalts, La 5 Réunion du Groupe Marocain du Permien et du Trias aura lieu à la Faculté des Sciences Chouaïb Doukkali, El Jadida, Maroc du 26 au 29 avril 2006, Résumés, p. 81.
- Olsen, P.E., Rasbury, E.T., Whiteside, J.H., 2005, Implications of radiometric ages from stromatolites, coprolites, and caliches from the Newark and Hartford Triassic-Jurassic rift basins. *Geological Society of America, Abstracts with Programs*, v. 37(1), p. 7 (invited).
- Olsen, P.E., Kent, D.V., Whiteside, J.H., Towards an astronomically calibrated timescale for the Jurassic, International Symposium on the Jurassic Boundary Events, IGCP 506, Nanjing, China, p. 64.
- Whiteside, J.H., 2005, Lacustrine Cyclicity and the Triassic-Jurassic Transition, Hierarchy of carbon cycle modulation in cyclical Late Triassic-Early Jurassic age lacustrine strata, Newark Supergroup, USA, International Symposium on the Jurassic Boundary Events, IGCP 506, Nanjing, China, p. 96.
- Whiteside, J.H., and Olsen, P.E., 2005, Arboreal Stromatolites from the Triassic and Jurassic of Eastern North America: Implications for Environmental Change. *Geological Society of America, Abstracts with Programs*, v. 37(1), p. 6 (invited).
- Whiteside, J.H., Olsen, P.E., Kent, D.V., 2005, Intensification of Milankovitch cycles associated with the Triassic-Jurassic super-greenhouse. *Geophysical Research Abstracts* (EGU05-A-10827).
- Whiteside, J.H., and Olsen, P.E., 2004, The Central Atlantic Magmatic Province and its Relationship to Mantle Plumes, Continental Rifting, Initial Atlantic Seafloor Spreading, and the Triassic-Jurassic Mass Extinction, Plate Tectonics, Plumes, and Planetary Lithospheres, November 12-November 15, University of Houston Department of Geosciences, Houston Geological Society, UH Geoscience Alumni Association, and the Lunar Planetary Institute.
- Olsen, P.E., and Whiteside, J.H., 2004, Was Dinosaur dominance triggered by the eruption of the Central Atlantic Magmatic Province (CAMP) or a bolide impact? Plate Tectonics, Plumes, and Planetary Lithospheres, November 12-November 15, University of Houston Department of Geosciences, Houston Geological Society, UH Geoscience Alumni Association, and the Lunar Planetary Institute.
- Olsen, P.E., Kent, D.V., Whiteside, J.H., 2004, The geological context of the Newark basin based on 6700 m of continuous core. Hydrogeology of the Newark Basin: Regional Workshop, November 11-12, 2004.
- Olsen, P.E., Et-Touhami, M., Whiteside, J.H., 2004a, Relationship between the continental Triassic-Jurassic boundary and the Central Atlantic Magmatic Province in Eastern North America and Morocco. GMPT IV, Fez, Morocco.
- Olsen, P.E., Kent, D.V., Muttoni, G., Whiteside, J.H., 2004b, Assessment of implications of recent marine magnetostratigraphic correlations for non-marine identification of the Carnian-Norian and Norian-Rhaetian boundaries. 32nd International Geological Congress, Florence, IGCP 458 Workshop (invited).
- Olsen, P.E., Whiteside, J.H., Et-Touhami, M., Kent, D.V., Fowell, S.J., 2004c, Stratigraphic Relationship between the continental Triassic-Jurassic boundary and the Central Atlantic Magmatic Province in Eastern North America and Morocco. 32nd International Geological Congress 253-11. (invited).

- Whiteside, J.H., 2004, *Arthromitus* and *Bacillus anthracis*: Weaponized symbionts. Human Brain in the Context of Natural History: 3000 million years of evolution of sensory systems, Bellagio, Italy, April 12-16 (invited).
- Whiteside, J.H., Olsen, P.E., and Sambrotto, R.N., Cornet, B., 2004a, Negative  $\delta^{13}\text{C}$  anomaly at the Triassic-Jurassic boundary in the Pangean arid tropics. 32nd International Geological Congress 253-6 (invited).
- Whiteside, J.H., Olsen, P.E., Sambrotto, R.N., and Cornet, B., 2004b, Milankovitch modulation of  $\delta^{13}\text{C}_{\text{org}}$  and fish communities in the tropical great lakes of the Triassic-Jurassic Pangean rift system. *Geophysical Research Abstracts*, v. 6, 07738.
- Whiteside, J.H., Olsen, P.E., Sambrotto, R.N., 2003a, Negative  $\delta^{13}\text{C}$  carbon isotopic anomaly in continental strata at the Triassic-Jurassic boundary in eastern North America (Newark Basin, Pennsylvania, USA). *Geological Society of America*, v. 34, no. 7, p. 160.
- Whiteside, J.H., Olsen, P.E., Cornet, B., Sambrotto, R.N., 2003b, Parallel  $\delta^{13}\text{C}$  and conifer physiognomic trends across the Triassic-Jurassic boundary. *Eos Transactions, American Geophysical Union*, Supplement, v. 84, no. 46, p. F299.
- Whiteside, J.H., Olsen, P.E., Rasbury, T., 2003, A 230 million year old record of arboreal stromatolites. Fourth International Symbiosis Congress Schedule and Abstracts. Etc. Press, Halifax, Nova Scotia, pp. 173-174.
- Whiteside, J. H. and Olsen, P. E., 2003, Possible Triassic-Jurassic boundary sections, Hartford basin, Eastern North America. *Geological Society of America, Abstracts with Programs*, v. 35, no. 3, 84.
- Olsen, P. E., Et-Touhami, M., Whiteside, J. H., 2003a, The initial CAMP flood basalt event and its relationship to overlying carbonate-rich sequences (North America and Northwest Africa): two options related to the Triassic-Jurassic boundary. *Geological Society of America, Abstracts with Programs*, v. 35, no. 3, p. 89.
- Olsen, P.E., and Whiteside, J.H., 2003, Evolutionary and ecological sequelae of mass extinctions: examples from the continental Triassic-Jurassic boundary. *Eos, Transactions, American Geophysical Union*, Supplement, v. 84, no. 46, p. F335.
- Olsen, P.E., Whiteside, J.H., LeTourneau, P.M., Kent, D.V., 2003b, The first half million years of the Jurassic as seen in the stratigraphy and paleoecology of the Newark Supergroup of eastern North America. *Geological Society of America, Abstracts with Programs*, v. 34, no. 7, p. 88.
- Whiteside, J.H., 2002, Symbiosis and the mermaid's parasol, VI Congreso Latinoamericano de Ficologia, Ponce, Puerto Rico, Meeting Abstracts, September 22-28, abstract O-20, (invited).
- Whiteside, J.H., and Clarkson, E.N.K., 2000, Calcium scaffolding, consciousness evolution and the Cambrian explosion. Poster presented at 2nd Chapman Conference, American Geophysical Union, Valencia, Spain, June 19-23.
- Whiteside, J.H., Pardiwala, R.N., Grace, H., 2000, Collembolan activity rates in heathland organic soils in relation to nutrient uptake following fertilization. 2nd Chapman Conference, American Geophysical Union, Valencia, Spain, Meeting Abstracts, June 19-23, p. 27.
- Whiteside, J.H., 1996, The effects of extremely low-level frequency microwaves on chlorophyll concentration in *Pisum sativum*. Arkansas Symposium for Sciences and Humanities, Conway, AR, (invited).

### **5.3 Invited Lectures**

- 2008: Tropical to subtropical climate cycles, Dalhousie University, Nova Scotia, Canada  
2007: Workshop on integrated scientific coring on the Colorado Plateau: Early Mesozoic history of west Pangea  
2007: The First Moroccan Association of Petroleum Geologists International Convention, Marrakech, Morocco  
2007: Lamont-Doherty Earth Observatory of Columbia University  
2007: Harvard Forest, Petersham, MA  
2006: The Second International Palaeontological Congress, Beijing, China  
2005: Geological Society of America  
2005: Department of Geological Sciences, Brown University  
2004: 32nd International Geological Congress, Florence, Italy  
2004: Human Brain in the Context of Natural History: 3000 million years of evolution of sensory systems, Bellagio, Italy  
2002: VI Congreso Latinoamericano de Fisiología, Ponce, Puerto Rico  
1996: Arkansas Symposium for Sciences and Humanities

### **5.4 Papers in Preparation and Research in Progress**

- Johnson, J., Whiteside, J., Trewin, N., Andrews, S., and Johnson, C., Astronomical pacing of Devonian lacustrine ecosystems. Article for *Palaeogeography, Palaeoclimatology, and Palaeoecology*.
- Vankeuren, M.A., Eglinton, T.I., and Whiteside, J.H., Orbital forcing of ecosystem dynamics in the Eocene Green River Formation. Article for *Geology*.
- Whiteside, J.H. and Olsen, P.E., Double precessional cycles and traversodont cynodont dominated provinces in equatorial Pangea. Article for *Proceedings of National Academy of Sciences USA*.
- Whiteside, J.H. and Olsen, P.E., A new species of the early Mesozoic “subholostean” fish *Ptycholepis* from the Boonton Formation of New Jersey, USA. Article for *Journal of Vertebrate Paleontology*.
- Whiteside, J.H., Olsen, P.E., Eglinton, T., Milankovitch modulation of the ecosystem dynamics of fossil Great Lakes. Article for *Geology*.
- Whiteside, J.H., Olsen, P.E., Kent, D.V., 2008, Seeing Red: The myth of an arid Triassic. (Article for *Proceedings of National Academy of Sciences USA*).
- Whiteside, J.H., Johnson, J., Lane, M., Huber, P., Lacustrine ecosystem development of the Late Pennsylvanian Konservat-Lagerstätte, Kinney Quarry, New Mexico. Research in progress.
- Whiteside, J.H., Olsen, P.E., Kent, D.V., The Triassic-Jurassic boundary, eastern North America and Morocco. Research in progress.

### **6.1 Service to the Department**

- Fall 2008: With Greg Hirth, co-led departmental fall field trip, “The Age of Dinosaurs in the Hartford basin”  
Fall 2007: Organized colloquia series

## **6.2 Service to the University**

Spring 2008: Informal faculty sponsor of Brown University International Genetically Engineered Machine (iGEM) team to engineer novel biological machines (invited by graduate student John Cumbers, EEB)

Spring 2007: Workshop leader in “Preparing for your first year as a faculty member: a program for advanced graduate students”: Career Development Center, the Graduate School and the Harriet W. Sheridan Center for Teaching and Learning

Fall 2007: Discussion leader on *How Proust can Change Your Life* for Orientation

## **6.3 Service to the Profession**

May 2003 to present: Field trip leader for NEIGC, GSA, SEPM GAC-MAC, NAPC

May 2000 to June 2000: Field trip leader, Royal Museum of Scotland, UK, and British Geological Association

June 2002 to present: Member IGCP 458 (Triassic-Jurassic Boundary Events)

Nov. 2006 to present: Member IGCP 506 (Marine and Non-marine Jurassic)

Refereed manuscripts for PNAS, Terra Nova, Geology, PPP and other journals

## **6.4 Service to the Community and Public Education in the Media**

Dec. 2008: “Animal Armageddon” Animal Planet

Spring 2008: Interviewed for “30 Most Powerful Women under 30” feature in *Marie Claire* magazine

Feb. 2007: “The Nature of Things – Geologic Journey” (in Morocco), CBC and Discovery Channel

Sept. 2007: Consultant for Web-based teacher’s resource guide for: “The Nature of Things – Geologic Journey” (in Morocco), CBC and Discovery Channel

Sept. 2006 to present: Invited resource paleontologist to uncover dinosaur footprints and other fossils at area construction site, Department of Public Health and Public Works, Hartford, CT.

Jan. 2007 to 2007: Mentor Partner for “Internship Through Learning: Empirical Reasoning” project of The Metropolitan Regional and Technical Center, Providence, RI; an urban program to involve grade 9-12 students in lab research

June 1999 to Aug. 1999: Cleanup organizer, West Ship Island, Southeastern LA.

## **7. Honors**

2006: Featured in Lamont-Doherty Earth Observatory Biennial Report for academic excellence

2003: International Symbiosis Society NSF-sponsored travel grant; GSA travel grant

2001: Featured as one of “10 Brilliant Reasons to attend Mount Holyoke College” promotional materials for admissions

2001: National Science Foundation Graduate Research Fellowship; Sigma XI award; Phi Beta Kappa

2000: E.J. Murphy Coastal Marine Science Fellowship; Who's Who Among Students in Colleges; Summer Mount Holyoke College Research Fellowship, Instituto Nacional de Biodiversidad, Costa Rica; Harry S. Truman Foundation Finalist; AGU Travel Grant

1999: Sarah Williston Scholar (top 15% of junior class); Laurel Fellowship for Overseas Studies; Morris K. Udall Scholarship; Barry M. Goldwater Scholarship; Student Conservation Association Leadership Workshop, Arlington, VA; DOI Student Conservation Diversity Intern, Minerals Management Services, New Orleans, LA; DOE Energy Undergraduate Research Fellowship, Oak Ridge National Lab, TN

1998: DOE Energy Undergraduate Research Fellowship, Oak Ridge National Lab, TN  
1997: Heilig-Meyers Foundation Scholarship; ITW-Paslude Foundation Scholarship; National Collegiate Natural Science Awards Winner; Hot Springs Rotary Club Scholarship

### **8.1 Courses taught**

Spring 2008: Geological Sciences 292 B - Cyclicities and Singularities in the History of Life, Brown University (Enrollment: 3)  
Fall 2007: Geological Sciences 291 - Paleolimnology, Brown University (Enrollment 12, with James Russell)  
Fall 2007: Geological Sciences 291: The Fossil Record, Brown University (Enrollment 22)  
Spring 2006: Geological Sciences 291: The Fossil Record, Brown University (Enrollment 18)  
Spring 2003: Teaching Assistant (undergraduates), The Earth System: Life System, Department of Earth and Environmental Sciences, Columbia University  
Winter 2003: Discussion leader, Keeping Things Whole: Readings in Environmental Science, Great Books Foundation Winter Sonoran Desert Institute and College of the Humanities and Sciences, Tempe, Arizona. Biosphere 2 Center, Oracle, AZ.  
Spring 2002: Teaching Assistant (undergraduates), The Earth System: Life System, Department of Earth and Environmental Sciences, Columbia University  
Winter 2002: Discussion leader, The Nature of Life: Readings in Biology, Great Books Foundation Winter Sonoran Desert Institute and College of the Humanities and Sciences, Tempe, Arizona. Biosphere 2 Center, Oracle, AZ.  
Spring 1999: Teaching Assistant (undergraduates), History of Life, Department of Earth and Environment, Mount Holyoke College

### **8.2 Mentoring**

Co-Faculty Thesis sponsor to Ph.D. candidate Bronwen Konecky  
Faculty Thesis sponsor to M.Sc. student Devina Swarup (2008)  
Member of advisory committee for 4 Ph.D. dissertations in progress (Leah Hutchinson Roach, Gillian Galford, Jonathan Nichols, Jessica Rodysill)  
Research Advisor to undergraduate thesis students Jena Johnson (2009) and Marc Vankeuren (2009)