

# Jill A. VanTongeren

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AMERICAN MUSEUM OF NATURAL HISTORY  
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## EDUCATION

- 2007-Present      American Museum of Natural History  
                         Graduate Student Fellow, Earth and Planetary Sciences  
                         Columbia University, Lamont-Doherty Earth Observatory  
                         Graduate Student, Petrology & Geochemistry
- 2005-2007        Columbia University, Lamont-Doherty Earth Observatory  
                         M.A., Earth and Environmental Sciences  
                         Advisor: Prof. Peter B. Kelemen  
                         Title: The determination of cooling rates in the lower crust  
                         of the Oman ophiolite from the Ca in olivine geothermometer.
- 2000-2004        University of Michigan, Ann Arbor, MI  
                         B.S., Geological Sciences  
                         Graduated with high honors, May 2004  
                         Honors Thesis Advisor: Prof. Kyger C. Lohmann  
                         Title: Latitudinal and temporal variations in the  
                         seasonal paleotemperatures of New Zealand during the  
                         onset of Antarctic glaciation.

## HONORS AND AWARDS

- 2008                GSA Graduate Student Research Grant recipient
- 2007                AMNH Graduate Student Fellowship  
                         American Museum of Natural History  
                         New York, NY
- 2007                Sarah Langer Prize for Contributions to Graduate Student Life  
                         Lamont-Doherty Earth Observatory  
                         Palisades, NY
- 2006                NSF Graduate Student Fellowship, honorable mention
- 2005                Faculty Fellow, Columbia University

## UNIVERSITY INVOLVEMENT AND TEACHING

- 2006-2008        Co-Chair of Graduate Student Committee for LDEO, GISS, & AMNH
- Spring, 2008      Teaching Assistant for Science of Sustainable Development
- Spring, 2007      Teaching Assistant for Plate Tectonics
- Fall, 2006         Teaching Assistant for Advanced General Geology

## PUBLICATIONS

**VanTongeren, J.A., Kelemen, P.B., Hanghøj, K (2008),**  
Cooling rates in the lower crust of the Oman ophiolite: Ca in  
olivine, revisited. **Earth and Planetary Science Letters**  
267, 69-82. doi:10.1016/j.epsl.2007.11.034

## INVITED TALKS AND LECTURES

- Summer 2008      **VanTongeren, J.A.** Cooling rates in the lower oceanic  
crust: implications for crustal genesis at mid ocean ridges.  
ESRC and Earth Sciences, St. Francis Xavier University.
- Fall 2007        **VanTongeren, J.A., Kelemen, P.B, Hanghøj, K.** Cooling rates  
in the lower crust of the Oman ophiolite: Ca in olivine,  
revisited. American Geophysical Union Fall Meeting, 2007  
abstract #V53D-07.
- Spring 2007     **VanTongeren, J.A., Lohmann, K.C., Dutton, A.,** Seasonal  
temperature variability recorded in marine bivalves, American  
Museum of Natural History, Dept of Earth and Planetary  
Sciences Colloquium Series, AMNH.

## RESEARCH/WORK EXPERIENCE

- 2004 – 2005      Joint Oceanographic Institutions, Washington, DC  
Intern/Program Assistant  
Assistant to the U.S. Science Support Program associated with  
the Integrated Ocean Drilling Program
- 2002 – 2004      Stable Isotope Laboratory-The University of Michigan  
Undergraduate Research Assistant  
Mentor: Prof. Kyger C. Lohmann  
Macroscopic drilling of mollusks (genus *Cucullaea*)  
Analysis of isotopic data ( $\delta^{13}\text{C}$ ,  $\delta^{18}\text{O}$ ) obtained from  
sampling.
- Summer 2003     Department of Terrestrial Magnetism - Carnegie Institute of  
Washington  
Summer Intern  
Mentors: Fouad Tera, Conel Alexander, George Cody, Marilyn Fogel  
Project: The Allende Meteorite: an elemental, isotopic and  
structural classification of acid-insoluble organic material

## FIELD EXPERIENCE

- April 2008            Central Mexican Volcanic Belt, Mexico  
Sampling of lava cones and tubes, specifically in the Sierra Chichinautzin Volcanic Field (SCVF)
- January 2007        Semail ophiolite, Oman  
Sampling of gabbroic & mantle sections
- September 2006    Trinity and Josephine Ophiolites, Oregon and California, USA  
Sampling of mantle sections
- July 2007 &  
April 2006           Upper Zone of the Bushveld Complex, Sekhukhuneland, S. Africa  
Sampling the Upper Zone of the Eastern Bushveld
- January 2005        Magmatic Field Laboratory, Dry Valleys, Antarctica  
Investigations into the Ferrar Dolerites of the McMurdo Dry Valleys  
Convener: Prof. Bruce Marsh, Johns Hopkins University
- March, 2005        Lago Fagnando, Tierra del Fuego, Argentina  
High-resolution seismic profiling of lake stratigraphy  
Working in collaboration with Dr. Jamie Austin, Institute for Geophysics, University of Texas
- January, 2004        Field Assistant in Antarctica, RV- NB Palmer, Ross Sea  
Project: Neotectonic Structure of Terror Rift, W. Ross Sea  
Sub-project: A preliminary investigation of volcanic seamounts in the Western Ross Sea, Antarctica  
Worked in collaboration with Prof. Samuel Mukasa

## PROFESSIONAL MEMBERSHIP

American Geophysical Union  
Geological Society of America  
Mineralogical Society of America

updated 09/08/08