HAOJIA (ABBY) REN, 任昊佳

NOAA Climate and Global Change Postdoctoral Fellow
Lamont-Doherty Earth Observatory, Columbia University

Address: 423 Comer
61 Route 9W – PO Box 1000
Palisades, NY 10964-8000, U.S.
Tel: (845) 365-8793
Fax: (845) 365-8155
E-mail: hren@ldeo.columbia.edu

EDUCATION

2010 Ph.D. in Geosciences, Princeton University, NJ, U.S.
2007 M.A. in Geosciences, Princeton University, NJ, U.S.
2005 B.S. in Geology and Mathematics (double major), Peking University, China

HONORS AND AWARDS

2010-present	NOAA Climate and Global Change Postdoctoral Fellowship NCAR's visiting Scientist Programs, U.S.
2009-2010	Charlotte Elizabeth Procter Honorific Fellowship Princeton University, U.S.
2008-2009	Schlanger Ocean Drilling Fellowship Consortium for Ocean Leadership
2007	Best Student Poster Award The 9th International Conference on Paleoceanography Shanghai, China
2005-2006	First Year Fellowship in Science and Engineering Princeton University, U.S.
2005	Excellent Student Award Beijing Municipal Education Commission, Beijing, China
2004	Guanghua Scholarship, Peking University, Beijing, China
2003	Chun-Tsung Schlolarship for Undergraduate Research Chun-Tsung Endowment, United Board for Christian Higher Education in Asia, NY, U.S.
2002	May 4th Scholarship, Peking University, Beijing, China
2001	Excellent Student Award Shandong Province Education Commission, Shandong, China

EXPERIENCE

Research Experience

Postdoctoral Fellow
Lamont-Doherty Earth Observatory, Columbia University, since Nov. 2010
Advisor: Dr. Robert F. Anderson
Project: Reconstructing surface nutrient status in the Subarctic North Pacific Ocean during the last deglaciation: using the isotopes of multiple organic nitrogen pools

Graduate Research Assistant
Department of Geosciences, Princeton University, 2005-2010
Advisor: Dr. Daniel M. Sigman
Ph.D. thesis: Development and paleoceanographic application of planktonic foraminifera-bound nitrogen isotopes

Undergraduate Research
Department of Geology, Peking University, Beijing, China, 2003-2005
Advisor: Dr. Jianbo Liu
B.S. thesis: The carbon isotopic study of plant fossils in the middle and upper part of the Xujiachong Formation at Qujing, Yunan Province

Chun-Tsung Research Scholar
Peking University, Beijing, China, 2002-2004
Advisor: Dr. Jianghai Li
Project: Gold-rich mesoproterozoic chimneys from Xinglong in Hebei and implications for the formation of gold

Teaching Experience

2008	Princeton University, Princeton, NJ, U.S.	
		Instructor and grader - Observing the Marine Environment
2007	Princeton University, Princeton, NJ, U.S.	
		Instructor and grader - Biogeochemical Cycles and Global Changes

Other Related Work Experience

May-July, 2005	Technische Universität München, Freising, Germany	
		Research Intern
		Project: Carbon storage in wetlands
May-July, 2004	National Geographic, U.S.	
		Research Assistant
		Project: ichthyosaurs

PROFESSIONAL AFFILIATIONS

Member of American Geophysical Union
Member of American Society of Limnology and Oceanography

PEER-REVIEWED PAPERS

Haojia Ren, Daniel M. Sigman, Anna Nele Meckler, Birgit Plessen, Rebecca S. Robinson, Yair Rosenthal, and Gerald H. Haug, Foraminiferal isotope evidence of reduced nitrogen fixation in the Ice Age Atlantic Ocean, *Science*, 323, 244 (2009).

Haojia Ren, Jianghai Li, Jun Feng, and Xianglong Niu, Gold-rich mesoproterozoic chimneys from Xinglong in Hebei and implications for the formation of gold*, Acta Scientiarum Naturalium Universitatis Pekinensis,* 42(04) (2006).

PUBLICATIONS IN GROGRESS

Haojia Ren, Daniel M. Sigman, Min-Te Chen, Shuh-ji Kao, Elevated Foraminifera-bound Nitrogen Isotopic Composition During the Last Ice Age in the South China Sea and Its Global and Regional Implications, submitted to *Global Biogeochemical Cycles*.

Haojia Ren, Daniel M. Sigman, Robert C. Thunell, Maria G. Prokopenko, Nitrogen isotopic composition of planktonic foraminifera from the modern ocean and recent sediments, planned submission to *Limnology and Oceanography.*

Haojia Ren, Brigitte G. Brunelle, Daniel M. Sigman, Rebecca S. Robinson, Incorporation of trace metal in diatom frustules and its potential influence on the preservation of diatom-bound organic matter, planned submission to *Geochimica et Cosmochimica Acta.*

Haojia Ren, and Daniel M. Sigman, A cleaning and analytical method for determining foraminifera-bound nitrogen isotopic composition, planned submission to *Analytical Chemistry.*

CONFERENCE PRESENTATIONS

Haojia Ren, Daniel M. Sigman, Robert C. Thunell, Maria G. Prokopenko, Nitrogen isotopic composition of planktonic foraminifera from the modern ocean and recent sediments, AGU Fall Meeting, San Francisco, CA, U.S., 2010 (talk).

Haojia Ren, Daniel M. Sigman, Min-Te Chen, and Shuh-Ji Kao, Elevated Foraminifera-bound $^{15}N/^{14}N$ during the last Ice Age in the South China Sea and its global and regional implications, The 10th International Conference on Paleoceanography, San Pedro, California, U.S., 2010 (poster).

Haojia Ren, Daniel M. Sigman, Min-Te Chen, and Shuh-Ji Kao, Elevated Foraminifera-bound $^{15}N/^{14}N$ during the last Ice Age in the South China Sea and its global and regional implications, Western Pacific Geophysics Meeting, Taipei, Taiwan, 2010 (talk).

Haojia Ren, Daniel M. Sigman, Anna Nele Meckler, Birgit Plessen, Rebecca S. Robinson, Yair Rosenthal, and Gerald H. Haug, Foraminiferal isotope evidence of reduced nitrogen fixation in the Ice Age Atlantic Ocean, AGU Fall Meeting, San Francisco, CA, U.S., 2008 (poster).

Haojia Ren, and Daniel M. Sigman, A new method for studying planktonic foraminifera shell-bound organic nitrogen and its potential applications in paleoceanography, The 9th International Conference on Paleoceanography, Shanghai, China, 2007 (Poster).

INVITED TALKS

Haojia Ren, Foraminiferal isotope evidence of reduced nitrogen fixation in the Ice Age Atlantic Ocean, Environmental Geology and Geochemistry Seminar Series, Princeton University, Princeton, NJ, U.S., November 2008.

Haojia Ren, Coupling of marine nitrogen and carbon cycles over the glacial cycles, Beijing University, Beijing, China, March 2009.

Haojia Ren, Elevated foraminifera-bound nitrogen isotopic composition in N. Altanic and South China Sea: Evidence for a global reduced nitrogen fixation in the Ice Age, Xiamen University, Xiamen, Fujian Province, China, March 2009.

Haojia Ren, Foraminiferal isotope evidence of reduced nitrogen fixation in the Ice Age Atlantic Ocean, U.S. Advisory Committee for Scientific Ocean Drilling Meeting, Washington D.C., U.S., July 2009.

Haojia Ren, Elevated Foraminifera-bound $^{15}N/^{14}N$ during the last Ice Age in the South China Sea and its global and regional implications, Academica Sinica, Taipei, Taiwan, June 2010.

LEADERSHIP

Student-Faculty Liaison, Graduate Student Working Committee, Department of Geosciences, Princeton University, 2007-2008.

Vice President, Association of Chinese Student and Scholars, Princeton University, 2006-2007.

President, Student Association, School of Earth and Space Sciences, Beijing University, 2003-2004.