# Jiang Zhu

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**RESEARCH INTERESTS**

Isotope-enabled transient simulation of last deglaciation, Abrupt climate change, Oceanic thermohaline circulation dynamics and modeling, Global climate change and global warming

**EDUCATION**

University of Wisconsin-Madison, Madison, WI, USA
Ph.D. student, Atmospheric and Oceanic Sciences — Jun 2016 (expected)
Advisor: *Prof.* Zhengyu Liu

Peking University, Beijing, China
M.S. Atmospheric and Oceanic Sciences — Jun 2011
Advisor: *Prof.* Haijun Yang

Peking University, Beijing, China
B.S. Atmospheric Sciences — Jun 2008
Advisor: *Prof.* Haijun Yang

**PUBLICATIONS**

Lu, Z., Z. Liu, and **J. Zhu** (2015), Abrupt intensification of ENSO forced by deglacial ice-sheet retreat in CCSM3, Clim. Dyn., in press, doi:10.1007/s00382-015-2681-3.

Liu, W., J. Lu, L. R. Leung, S.-P. Xie, Z. Liu, and **J. Zhu (2015)**, The de-correlation of westerly winds and westerly-wind stress over the Southern Ocean during the Last Glacial Maximum, Clim. Dyn., in press, doi:10.1007/s00382-015-2530-4.

**Zhu, J.**, Z. Liu, J. Zhang, and W. Liu (2015), AMOC response to global warming: dependence on the background climate and response timescale, Climate Dynamics, 44(11–12), 3449–3468, doi:10.1007/s00382-014-2165-x.

**Zhu, J.**, Z. Liu, X. Zhang, I. Eisenman, and W. Liu (2014), Linear weakening of the AMOC in response to receding glacial ice sheets in CCSM3, Geophys. Res. Lett., 41, 6252–6258, doi:10.1002/2014GL060891.

Liu, Z., **J. Zhu**, Y. Rosenthal, X. Zhang, B. Otto-Bliesner, A. Timmermann, R. Smith, G. Lohmann, W. Zheng, O. Timm (2014), The Holocene temperature conundrum, Proceedings of the National Academy of Sciences, 111(34), E3501–E3505, doi:10.1073/pnas.1407229111.

Nace, T. E., P. A. Baker, G. S. Dwyer, C. G. Silva, C. A. Rigsby, S. J. Burns, L. Giosan, B. Otto-Bliesner, Z. Liu, **J. Zhu** (2014), The role of North Brazil Current transport in the paleoclimate of the Brazilian Nordeste margin and paleoceanography of the western tropical Atlantic during the late Quaternary, Palaeogeogr. Palaeoclimatol. Palaeoecol., 415, 3–13, doi:10.1016/j.palaeo.2014.05.030.

Huang, B., **J. Zhu**, H. Yang (2013), Mechanisms of Atlantic Meridional Overturning Circulation (AMOC) variability in a coupled ocean atmosphere GCM. Adv. Atmos. Sci., 31(2), 241–251, doi:10.1007/s00376-013-3021-3.

Liu, Z., A. Carlson, F. He, E. Brady, B. Otto-Bliesner, B. Briegleb, M. Wehrenberg, P. Clark, S. Wu, J. Cheng, J. Zhang, D. Noone, **J. Zhu** (2012), Younger Dryas cooling and the Greenland climate response to CO2, Proc. Natl. Acad. Sci., 109(28), 11101–11104, doi:10.1073/pnas.1202183109.

**Zhu, J.**, H. Yang (2012), Response of the Atlantic thermohaline circulation to changes of atmospheric green house gases. Acta Scientiarum Naturalium Universitatis Pekinensis, 48(2), 231–238. (*in Chinese*)

Yang, H., **J. Zhu** (2011), Equilibrium thermal response timescale of global oceans. Geophys. Res. Lett., 38(14), L14711, doi:10.1029/2011GL048076.

Qian, W., **J. Zhu**, Y. Wang, J. Fu (2009), Regional relationship between the Jiang-Huai Meiyu and the equatorial surface-subsurface temperature anomalies. Chinese Science Bulletin, 54(1), 113–119, doi:10.1007/s11434-008-0410-6.

**AWARD**

Reid Bryson Graduate Scholarship, CCR, UW-Madison — Mar. 2015
Merit student, Peking University — Dec. 2009
Outstanding Freshman Scholarship, Peking University — Sep. 2004

**WORKSHOP COLLOQUIA**

19th Annual CESM Workshop, Breckenridge, CO — Jun. 2014
Synthesis of Transient Climate Evolution of the last 21-kyr, Providence, RI Nov. 2012
Community Earth System Modeling Tutorial, Boulder, CO — Aug. 2012
Thermodynamics of the Oceanic Environment, Xiamen, China — Sep. 2009
Beijing International Summer School on Climate and Environment, Beijing, China — Aug. 2009

**TEACHING EXPERIENCE**

Teaching Assistant of *Introduction of Atmospheric Science*, School of Physics, Peking University — Sep. 2009 - Jan. 2010
Teaching Assistant of *Descriptive Physical Oceanography*, School of Physics, Peking University — Sep. 2008 - Jan. 2009

**COMPUTER SKILLS**

Operating systems: Liunx, Windows, Mac OS.
Programming languages: C, Fortran, Matlab, Phython, Ferret, NCAR Command

Language, NCO, HTML.
Document preparation: LaTeX, Microsoft Office Suite.

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