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EDUCATION

Doctor of Philosophy in Earth System Science, University of California Irvine	2013
Master of Science in Meteorology, Nanjing University, China	2008
Bachelor of Science in Atmospheric Sciences, Nanjing University, China	2005

PROFESSIONAL EXPERIENCE

Hydroclimate Data Scientist, Lawrence Berkeley National Lab	APR 2017 – Present
Data Analyst, Shopkick Inc.,	JUN 2015 – FEB 2016
Postdoctoral Researcher, UC-Irvine	SEP 2013 − FEB 2015
Graduate Researcher, UC-Irvine	SEP 2008 – SEP 2013
Graduate Researcher, Nanjing University, China	SEP 2005 – JUN 2008
Internship, Anhui Meteorology Administration, China	MAR－MAY 2005

PUBLICATIONS

Rignot, E., **Y. Xu**, D. Menemenlis, et al. (2016), Modeling of ocean-induced ice melt rates of five west Greenland glaciers over the past two decades, *Geophysical Research Letter*, 43, doi:10.1002/2016GL068784.

Rignot, E., I. Fenty, **Y. Xu**, C. Cai, I. Velicogna, C. Ó Cofaigh, J. A. Dowdeswell, W. Weinrebe, G. Catania, and D. Duncan (2016), Bathymetry data reveal glaciers vulnerable to ice-ocean interaction in Uummannaq and Vaigat glacial fjords, west Greenland, *Geophysical Research Letter*, 43, doi:10.1002/2016GL067832.

Rignot, E., I. Fenty, **Y. Xu**, C. Cai, C. Kemp (2015), Undercutting of marine-terminating glaciers in West Greenland, *Geophysical Research Letter*, 42, 5909-5917, doi:10.1002/2015GL064236.

Xu, Y., E. Rignot, I. Fenty, D. Menemenlis, M. Flexas. 2013. Subaqueous melting of Store Glacier, West Greenland from three-dimensional, high-resolution numerical modeling and ocean observations. *Geophysical Research Letter*, 40, 4648-4653, doi:10.1002/grl.50825.

Xu, Y., E. Rignot, D. Menemenlis, M. Koppes (2012). Numerical experiments on subaqueous melting of Greenland tidewater glaciers in response to ocean warming and enhanced subglacial discharge. *Annals of Glaciology*, 53(60): 229–234.

Rignot, E., I. Fenty, D. Menemenlis, **Y. Xu** (2012). Glacier acceleration caused by the spreading of warm ocean waters around Greenland. *Annals of Glaciology*, 53(60): 257–266.

Straneo, F., D. Sutherland, D. Holland, C. Gladish, G. Hamilton, H. Johnson, E. Rignot, **Y. Xu**, M. Koppes (2012). Characteristics of ocean waters reaching Greenland's glaciers. *Annals of Glaciology*, 53(60): 202–210.

Chen X., **Y. Xu** (2009), Climate of the past 1000 years: simulation and mechanism. *Quaternary Science*, 29(6), 1115 -1124.

Xu Y., X. Chen. 2007. Simulation of Abrupt Climate Events in Holocene with an Earth-System Model of Intermediate Complexity. *Quaternary Science*, 27(3): 392-400.

CONFERENCE PRESENTATIONS

Xu, Y., E. Rignot, D. Menemenlis. Subaqueous melting of Store Glacier, West Greenland. Oral presentation at ECCO-Production and ECCO-IcES Project Meeting, MIT, Cambridge, MA, 22-25 January, 2014.

Xu, Y., E. Rignot, D. Menemenlis, I. Fenty. Subaqueous melting of Store Glacier, West Greenland from three-dimensional, high-resolution numerical modeling. Oral presentation at IGS symposium. Beijing, China, 28 July - 2 August 2013.

Xu, Y., E. Rignot, D. Menemenlis, M.M. Flexas, I. Fenty. Subaqueous melting of Store Glacier, West Greenland from three-dimensional, high-resolution numerical modeling. Poster presentation at U.S. CLIVAR International Workshop. Beverly, MA, 4-7 June 2013.

Xu, Y., E. Rignot, D. Menemenlis, M.R. van den Broeke, Study of subaqueous melting of Store Glacier, West Greenland using ocean observations and numerical simulations. Abstract C43D-0643. Poster presentation at AGU Fall Meeting. San Francisco, 5-9 December 2012.

Xu, Y., Rignot, E., Menemenlis, D., and Koppes, M. Modeling of subaqueous melting of Greenland tidewater glaciers using an ocean general circulation model. Abstract 63A453. Poster presentation at IGS symposium, Fairbanks, AK, 24-29 June 2012.

Xu, Y., Rignot, E., Menemenlis, D., Primeau, F., Tan, R., The behavior of subglacial freshwater plumes: numerical model and tank experiments. Abstract 12302. Poster presentation at Ocean Science Meeting. Salt Lake City, UT, 20-24 February 2012.

Xu, Y., Rignot, E., Menemenlis, D., and Koppes, M. Modeling of subaqueous melting of Greenland tidewater glaciers using an ocean general circulation model. Abstract C22A-04. Oral presentation at AGU Fall Meeting. San Francisco, CA, 5-9 December 2011.

Xu, Y., E. Rignot, D. Menemenlis, and M. Koppes, Modeling of submarine melting of Greenland tidewater glaciers using an ocean general circulation model, Abstract 60A125, Oral presentation at IGS symposium, La Jolla, California, 5-10 June 2011.

Xu, Y., Rignot, E., Menemenlis, D., and Koppes, M. Modeling of submarine melting of Greenland tidewater glaciers using an ocean general circulation model. Abstract C12B-08. Oral presentation at AGU Fall Meeting. San Francisco, CA, 13-17 December 2010.

Xu, Y., X. Chen. Numerical simulations of the impact of Atlantic freshwater input on global thermohaline circulation and Holocene climate changes. Oral Presentation at China-Korea-Japan joint conference on meteorology. Beijing, China, November 2007.

REVIEW SERVICE

- Scientific Reports
- Geophysical Research Letter
- National Science Foundation
- The Cryosphere
- International Journal of Remote Sensing