

Yuxin Zhou

CONTACT INFORMATION	Comer 235, 61 Route 9W Palisades, NY 10964-8000 ldeo.columbia.edu/~yzhou/	323-633-2456 yzhou@ldeo.columbia.edu
EDUCATION	Columbia University , New York, NY Ph.D., Earth and Environmental Sciences Dissertation: Atlantic Meridional Overturning Circulation instabilities during the last glacial cycle University of Southern California , Los Angeles, CA B.S., Geological Sciences, <i>Phi Beta Kappa</i> Minor in Computer Science	2016-2022 2012 – 2016
EXPERIENCE	Postdoctoral Scholar, UC Santa Barbara	2022-
AWARDS	Cushman Foundation Johanna M. Resig Fellowship (\$30,000) IODP Schlanger Fellowship (\$30,000) Columbia University GSAS Dean's Fellowship Woods Hole Oceanographic Institution Summer Student Fellowship USC Dornsife Harry Miller Scholarship USC Dornsife Syllas and Rose Marx Meyer Scholarship USC Earth Sciences Richard O. Stone Scholarship	2021 2020 2016 2015 2015 2015 2012, 2014, 2015
PUBLICATIONS	Zhou, Y. and McManus, J.F. Authigenic uranium deposition in the glacial North Atlantic - implications for oxygenation, carbon storage, and deep water mass geometry. In revision. <i>Quaternary Science Reviews</i> Zhou, Y. and McManus, J.F. Extensive evidence for a Last Interglacial Laurentide Outburst (LILO) event. In press. <i>Geology</i> . doi: 10.1130/G49956.1 Zhou, Y. , McManus, J.F., Jacobel, A., Costa, K., Wang, S., and Alvarez Caraveo, B. (2021), Enhanced iceberg discharge in the western North Atlantic during all Heinrich events of the last glaciation. <i>Earth and Planetary Science Letters</i> , 564, 116910. doi: 10.1016/j.epsl.2021.116910 Costa, K.M., Hayes, C.T., Anderson, R.F., Pavia, F.J., Bausch, A., Deng, F., Dutay, J.-C., Geibert, W., Heinze, C., Henderson, G., Hillaire-Marcel, C., Hoffmann, S., Jaccard, S.L., Jacobel, A.W., Kienast, S.S., Kipp, L., Lerner, P., Lippold, J., Lund, D., Marcantonio, F., McGee, D., McManus, J.F., Mekik, F., Middleton, J.L., Missiaen, L., Not, C.,	

- Pichat, S., Robinson, L.F., Rowland, G.H., Roy-Barman, M., Tagliabue, A., Torfstein, A., Winckler, G. and **Zhou, Y.** (2020), ^{230}Th Normalization: New Insights on an Essential Tool for Quantifying Sedimentary Fluxes in the Modern and Quaternary Ocean. *Paleoceanography and Paleoclimatology*, 35: e2019PA003820. doi:10.1029/2019PA003820
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- Jacobel, A.W., Anderson, R.F., Winckler, G., Costa, K.M., Gottschalk, J., Middleton, J.L., Pavia, F.J., Shoenfelt, E.M. and **Zhou, Y.** (2018), No evidence for equatorial Pacific dust fertilisation, *Nature Geoscience*, 12, 154-155. doi:10.1038/s41561-019-0304-z
- Emile-Geay, J., Cobb, K.M., Carre, M., Braconnot, P., Leloup, J., **Zhou, Y.**, Harrison, S.P., Correge, T., McGregor, H.V., Collins, M., Driscoll, R., Elliot, M., Schneider, B. and Tudhope, A. (2016), Links between tropical Pacific seasonal, interannual and orbital variability during the Holocene, *Nature Geoscience*, 9, 168. doi: 10.1038/ngeo2608
- Dee, S., Noone, D., Buening, N., Emile-Geay, J. and **Zhou, Y.** (2015), SPEEDY-IER: A fast atmospheric GCM with water isotope physics, *Journal of Geophysical Research - Atmospheres*, 120, 73–91. doi: 10.1002/2014JD022194
- Zhou, Y.** and McManus, J.F. Heinrich event freshwater fluxes in the North Atlantic quantified with a sedimentary geochemical compilation. In prep.

- CONFERENCES **Zhou, Y.** and McManus, J.F. Extensive evidence for the Last Interglacial analog of the glacial outburst event 8,200 years ago, *2022 NCAR paleoclimate working group meeting*
- Jorgensen, E.M., **Zhou, Y.** and McManus, J.F. Contextualizing North Atlantic Sediment within Heinrich Events. *2021 AGU Fall Meeting*
- Paul, A., **Zhou, Y.** and McManus, J.F. Climatic and Oceanographic Conditions in the Mid-Atlantic through the Penultimate Interglacial Period. *2021 AGU Fall Meeting*
- Zhou, Y.** and McManus, J.F. Glacial carbon storage and water mass geometry in the North Atlantic. *2021 AGU Fall Meeting*
- Zhou, Y.** and McManus, J.F. Extensive evidence for the Last Interglacial analog of the 8.2 ka event, *2021 Comer Climate Conference*
- Middleton, J.L., Winckler, G., Schaefer, J., Pavia, F., Anderson, R.F., Schwartz, S., **Zhou, Y.**, and Kinsley, C. Global patterns in oceanographic influences on ^{10}Be deposition rates to the seafloor. *2021 Goldschmidt*
- Zhou, Y.** and McManus, J.F. A new method of estimating freshwater fluxes during millennial events of the last glaciation, *2020 Comer Climate Conference*
- Zhou, Y.** and McManus, J.F. Heinrich Events 3 and 6 as Events of Increased Ice-Rafted Deposition, *2019 Goldschmidt*
- McManus, J.F., Costa, K.M., **Zhou, Y.**, Cohall, M., and Hoffmann, S.S. Reconstructions of changes in deep ocean circulation and climate through the last large glacial-interglacial cycle in the North Atlantic region, *2019 AGU Fall Meeting*
- McManus, J.F., Costa, K.M., Ng, H.C., **Zhou, Y.**, Hoffmann, S.S., Major, C.O., Robinson, L.F., and Keigwin, L.D. Time-series Transects of Deglacial Circulation Changes in the Deep North Atlantic Ocean, *2018 AGU Fall Meeting*
- Zhou, Y.**, Oppo, D., Gebbie, G., and Thornalley, D. Magnitude of the Suess Effect in North Atlantic - a Study of Foraminifera and Transient Tracer Simulations, *2016 AGU Ocean Sciences Meeting*
- Zhou, Y.**, Paterson, S., Pablo, A.H., Cao, W. and Ratschbacher, B. An Isostatic Mass Balance Model of Continental Arcs and Its Application to Paleozoic-Mesozoic Argentinean Cordilleran Orogenic Systems, *2016 GSA Cordilleran Section meeting*
- Emile-Geay, J., Cobb, K.M., Carre M., Braconnot, P., Leloup J, **Zhou, Y.**, Harrison, S.P., Correge, T., McGregor, H.V., Collins, M., Driscoll, R. (2015) Holocene constraints on simulated tropical Pacific climate. *2015 AGU Fall Meeting*

SEAGOING EXPERIENCE	<i>R/V Roger Revelle</i> , UNOLS Coring PI training	Aug. 22–Sept. 1, 2022
	<i>R/V Tioga</i> , plankton towing and grab coring training	Jul. 17, 2015
INVITED SEMINARS	Climate-geochemistry departmental seminar, Max Planck Institute for Chemistry 2021	
PROFESSIONAL SERVICES	Chair, LDEO graduate student committee	2019 – 20
	Volunteer, LDEO Wally Broecker Symposium	2019
	Orientation co-chair, LDEO graduate student committee	2018 – 19
	Member, LDEO committee on professional conduct	2018 – 2022
	Co-organizer, LDEO geochemistry seminar committee	2017 – 19
	Co-organizer, LDEO first year colloquium	2017
	President, USC Sigma Gamma Epsilon	2015 – 2016
	Secretary, —	2014
	Member: Phi Beta Kappa	2016 –
	Member: American Geophysical Union	2015 –
	Manuscript reviewer for <i>Earth and Planetary Science Letters</i> , <i>Climate of the Past</i> , <i>Marine Geology</i> and <i>Quaternary Research</i>	
TEACHING AND OUTREACH	Teacher, Girls Who Code	2018 – 2022
	Teacher, Columbia University COVID Volunteer Tutor Corps	2020
	Foundational Track completion, Teaching Development Program, the Center for Teaching and Learning at Columbia University	2020
	Volunteer, Columbia University Girls Science Day	2018 – 2019
	Volunteer, Lamont Open House	2016 – 2019
	Oceanography Teacher, Lenicia B. Weemes Elementary School, Joint Education Program	2012
	REU mentor of Alyson Churchill (Colby College; 2018), Annemarie Pillsbury (Dutchess Community College; 2018), Miah Cohall (Manhattan College; 2019), Cassandra Bartels (Barnard College; 2019), Ellen May Jorgensen (Syracuse University; 2021), Herman Garcia (The City College of New York; 2021), Ariana Paul (Barnard College; 2021)	
PROGRAMMING LANGUAGES	C++ (proficient), Java (proficient), Fortran (competent), Python (expert), Matlab (expert), R (competent), Javascript (proficient), Git (expert)	