

Yuxin Zhou

CONTACT INFORMATION	Noble 1015 Santa Barbara, CA 93106 www.github.com/yz3062/	323-633-2456 yuxin_zhou@ucsb.edu
EDUCATION	Columbia University , New York, NY Ph.D., Earth and Environmental Sciences Dissertation: Atlantic Meridional Overturning Circulation instabilities during the last glacial cycle. Advisor: Jerry F. McManus 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. Advisor: Lorraine Lisiecki	2022-
AWARDS	NOAA Climate and Global Change Fellowship (alternate) 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	2022 2021 2020 2016 2015 2015 2015 2012, 2014, 2015
PUBLICATIONS	Zeng, M., Rashid, H., Zhou, Y. , McManus, J.F., Wang, Y. (2023), Dynamics of the subpolar gyre and transition zone of the North Atlantic during the last glacial cycle. <i>Quaternary Science Reviews</i> , 314, 108215. doi:10.1016/j.quascirev.2023.108215 Zhou, Y. and McManus, J.F. (2023), Authigenic uranium deposition in the glacial North Atlantic - implications for oxygenation, carbon storage, and deep water mass geometry. <i>Quaternary Science Reviews</i> , 300, 107914. doi: 10.1016/j.quascirev.2022.107914 Zhou, Y. and McManus, J.F. (2022), Extensive evidence for a Last Interglacial Laurentide Outburst (LILO) event. <i>Geology</i> , 50(8), 934-938. doi: 10.1130/G49956.1	

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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., Corregge, 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 ice discharge and the fate of
the Atlantic Meridional Overturning Circulation. In revision at *Science*.

Caballero-Gill, R.P., Libarkin, J., Meyers, S.R., Hinnov, L., McCallum, C.,
Lisiecki, L.E., Malinverno, **Zhou, Y.**, Segessenman, D., A., Kochen, I.,
Hobart, B., Ajibade, R.A., Kinney, S., Olsen, P., Omar, H., Addressing
Barriers in Postdoctoral Recruitment and Application Processes: An
Equity-based Framework. Submitted to *Nature Communications*

Zhou, Y., Lisiecki, L.E., Lee, T., Gebbie, G., and Lawrence, C.E. Regional
benthic $\delta^{18}\text{O}$ stacks for the “41-kyr world” - an Atlantic-Pacific divergence
between 1.8-1.9 Ma. In prep.

Zhou, Y., McManus, J.F., Pallone, C., Weinstein, G. A., Garcia, H.
Abrupt weakening of Atlantic circulation at the last glacial inception.
In prep.

CONFERENCES **Zhou, Y.**, Lisiecki, L.E., Meyers, S. A new probabilistic, orbitally tuned
Pleistocene stack of benthic $\delta^{18}\text{O}$. *2023 AGU Fall Meeting* (Invited
speaker)

Zhou, Y., Lisiecki, L.E. Advances in Our Understanding of Climate Change
During the Plio-Pleistocene 41-kyr World. *2023 AGU Fall Meeting*
(Convenor)

Zhou, Y. and McManus, J.F. Heinrich event ice discharge and the fate of
the Atlantic Meridional Overturning Circulation. *2023 Comer Climate
Conference*

Zhou, Y., Lisiecki, L.E., Rand, D., Hobart, B., Lee, T., Gebbie, G.,
and Lawrence, C.E. Revisiting Pleistocene benthic $\delta^{18}\text{O}$ stacks with
BIGMACS. *2022 AGU Fall Meeting*

Zhou, Y. and McManus, J.F. Authigenic uranium deposition in the glacial
North Atlantic - implications for oxygenation, carbon storage, and deep
water mass geometry. *2022 Comer Climate Conference*

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. Holocene constraints on simulated tropical Pacific climate. *2015 AGU Fall Meeting*

INVITED
SEMINARS

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| Paleo/Environmental Seminar, University of Southern California | 2023 |
| Earth Research Institute Climate Seminar, University of California, Santa Barbara | 2023 |
| Whole Earth Seminar, University of California, Santa Cruz | 2023 |
| Paleoclimate working group meeting, National Center for Atmospheric Research | 2022 |
| International Quaternary Webinar, University of Massachusetts | 2022 |

Climate-geochemistry departmental seminar, Max Planck Institute for Chemistry
2021

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
PROFESSIONAL SERVICES	Steward, UCSB postdoc union (UAW 5810)	2022 –
	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>Science Advances</i> , <i>Environmental Research Letters</i> , <i>Earth and Planetary Science Letters</i> , <i>Climate of the Past</i> , <i>Geo-Marine Letters</i> , <i>Marine Geology</i> , and <i>Quaternary Research</i>	
TEACHING AND OUTREACH	Domain Expert, ClimateMatch Academy	2023 –
	Guest lecturer, UCSB Earth 4 Introduction to Oceanography	2023
	Facilitator, UCSB Family Ultimate Science Exploration	2022 –
	Teacher, Columbia University Girls Who Code	2018 – 2022
	Guest lecturer, Columbia University EESCW4920 Paleooceanography	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
	Guest lecturer, Columbia University EESCW2100 Earth's Environmental Systems: Climate System	2018
	Teaching Assistant, Columbia University EESCW2100 Earth's Environmental Systems: Climate System	2017-2018
	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; now PhD student at Oregon State University), Annemarie Pillsbury (Dutchess Community College, 2018; now graduate student at University at Buffalo), Miah Cohall (Manhattan College, 2019; now Assistant Engineer at Hazen and Sawyer), Cassandra Bartels (Barnard College, 2019; now Fulbright scholar at Christian-Albrechts-Universität Kiel), Ellen May Jorgensen (Syracuse University; 2021, now PhD student at Brown University), Herman Garcia (The City College of New York, 2021; now Bridge-to-PhD program participant at WHOI), Ariana Paul (Barnard College, 2021), Chandler Morris (Columbia University, 2021; now PhD student at Brown University)

PROGRAMMING Python (expert), Matlab (expert), Git (expert), C++ (proficient), Java
LANGUAGES (proficient), Javascript (proficient), Fortran (competent), R (competent)