## 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	2016 - 2022
	Ph.D., Earth and Environmental Sciences Dissertation: Atlantic Meridional Overturning O during the last glacial cycle. Advisor: Jerry F. I	
	University of Southern California, Los Angeles	s, CA 2012 – 2016
	B.S., Geological Sciences, <i>Phi Beta Kappa</i> Minor in Computer Science	
Experience	Postdoctoral Scholar, UC Santa Barbara. Advisor:	Lorraine Lisiecki 2022-
Awards	Cushman Foundation Johanna M. Resig Fellowship	(\$30,000) 2021
	IODP Schlanger Fellowship (\$30,000)	2020
	Columbia University GSAS Dean's Fellowship	2016
	Woods Hole Oceanographic Institution Summer Stu	ıdent Fellowship 2015
	USC Dornsife Harry Miller Scholarship	2015
	USC Dornsife Sylas and Rose Marx Meyer Scholars	hip 2015
	USC Earth Sciences Richard O. Stone Scholarship	2012,2014,2015
Publications	Zeng, M., Rashid, H., <b>Zhou, Y.</b> , McManus, J.F., Wa of the subpolar gyre and transition zone of the No last glacial cycle. <i>Quaternary Science Reviews</i> , 31	rth Atlantic during the
	<b>Zhou, Y.</b> and McManus, J.F. (2023), Authigenic uranium deposition in the glacial North Atlantic - implications for oxygenation, carbon storage, and deep water mass geometry. <i>Quarternary Science Reviews</i> , 300, 107914. doi: 10.1016/j.quascirev.2022.107914	
	<b>Zhou, Y.</b> 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	
	Zhou, Y., McManus, J.F., Jacobel, A., Costa, K., Caraveo, B. (2021), Enhanced iceberg discharge Atlantic during all Heinrich events of the last <i>Planetary Science Letters</i> , 564, 116910. doi: 10.1	e in the western North glaciation. Earth and

- 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), <sup>230</sup>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
- Khider, D., Emile-Geay, J., McKay, N. P., Gil, Y., Garijo, D., Ratnakar, V., Alonso-Garcia, M., Bertrand, S., Bothe, O., Brewer, P., Bunn, A. , Chevalier, M., Comas-Bru, L., Csank, A., Dassié, E., DeLong, K.. Felis, T., Francus, P., Frappier, A., Gray, W., Goring, S., Jonkers, L., Kahle, M., Kaufman, D., Kehrwald, N. M., Martrat, B., McGregor, H. , Richey, J., Schmittner, A., Scroxton, N., Sutherland, E., Thirumalai, K., Allen, K., Arnaud, F., Axford, Y., Barrows, T., Bazin, L., Pilaar Birch, S. E., Bradley, E., Bregy, J., Capron, E., Cartapanis, O. , Chiang, H., Cobb, K. M., Debret, M., Dommain, R., Du, J., Dyez, K., Emerick, S., Erb, M. P., Falster, G., Finsinger, W., Fortier, D. , Gauthier, N., George, S., Grimm, E., Hertzberg, J., Hibbert, F., Hillman, A., Hobbs, W., Huber, M., Hughes, A. L., Jaccard, S., Ruan, J., Kienast, M., Konecky, B., Le Roux, G., Lyubchich, V., Novello, V. F., Olaka, L., Partin, J. W., Pearce, C., Phipps, S. J., Pignol, C. Piotrowska, N., Poli, M., Prokopenko, A., Schwanck, F., Stepanek, C., Swann, G. E., Telford, R., Thomas, E., Thomas, Z., Truebe, S. , von, Gunten, L., Waite, A., Weitzel, N., Wilhelm, B., Williams, J., Winstrup, M., Zhao, N. and **Zhou, Y.** (2019), PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. Paleoceanography and Paleoclimatology, 34, 1570-1596. doi:10.1029/2019PA003632
- 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., Buenning, 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 future fate of the Atlantic Meridional Overturning Circulation. In review at *Science*.
- CONFERENCES **Zhou, Y.**, Lisiecki, L.E., Rand, D., Hobart, B., Lee, T., Gebbie, G., and Lawrence, C.E. Revisiting Pleistocene benthic  $\delta^{18}$ 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 <sup>10</sup>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

	to Paleozoic-Mesozoic Argentinean Cordilleran Orogenic Systems.  GSA Cordilleran Section meeting	. 2016
	Emile-Geay, J., Cobb, K.M., Carre M., Braconnot, P., Leloup J, <b>Zho</b> Harrison, S.P., Correge, T., McGregor, H.V., Collins, M., Drisce Holocene constraints on simulated tropical Pacific climate. 2015 Fall Meeting	oll, R.
Invited Seminars	Paleo/Environmental Seminar, University of Southern California 2023	
	Earth Research Institute Climate Seminar, University of California, S Barbara	
	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 $2021$	or Chemistry
SEAGOING EXPERIENCE	R/V Roger Revelle, UNOLS Coring PI training Aug. 22–Sept. 1	, 2022
	R/V $Tioga$ , plankton towing and grab coring training Jul. 17	, 2015
Professional Services	Steward, UCSB postdoc union (UAW 5810)	2022 –
	Chair, LDEO graduate student committee 201	9 - 20
	Volunteer, LDEO Wally Broecker Symposium	2019
	Orientation co-chair, LDEO graduate student committee 201	8 - 19
	Member, LDEO committee on professional conduct 2018 -	- 2022
	Co-organizer, LDEO geochemistry seminar committee 201	7 - 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 Science Advances, Environmental Research Letters, Earth and Planetary Science Letters, Climate of the Past, Geo-Marine Letters, Marine Geology, and Quaternary Research	

**Zhou, Y.**, Paterson, S., Pablo, A.H., Cao, W. and Ratschbacher, B. An Isostatic Mass Balance Model of Continental Arcs and Its Application

TEACHING AND	Domain Expert, ClimateMatch Academy	2023 -		
OUTREACH	Guest lecturer, UCSB Earth 4 Introduction to Oceanography	2023		
	Facilitator, UCSB Family Ultimate Science Exploration	2022		
	Teacher, Columbia University Girls Who Code 2018	3 - 2022		
	Guest lecturer, Columbia University EESCW4920 Paleoceanography 2022			
	Teacher, Columbia University COVID Volunteer Tutor Corps	2020		
	Foundational Track completion, Teaching Development Program, the for Teaching and Learning at Columbia University	ne Center 2020		
	Guest lecturer, Columbia University EESCW2100 Earth's Environ Systems: Climate System	nmental 2018		
	Teaching Assistant, Columbia University EESCW2100 Earth's Envi Systems: Climate System 20	ronmental 17-2018		
	Volunteer, Columbia University Girls Science Day 2018	3 - 2019		
	Volunteer, Lamont Open House 2016	5 - 2019		
	Oceanography Teacher, Lenicia B. Weemes Elementary School, Join Program	t Education 2012		
	REU mentor of Alyson Churchill (Colby College; 2018; now PhD student			

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), 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)

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