Yuxin Zhou

Commune	N-11- 1015	202 622 0456	
CONTACT Information	Noble 1015 Santa Barbara, CA 93106	323-633-2456 yuxin_zhou@ucsb.e	edu
III OIMIIIION	www.github.com/yz3062/	, amii 2110a C 4050.0	
EDUCATION	Columbia University, New York, NY	2016 - 20)22
	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 2012 – 2019		
	B.S., Geological Sciences, <i>Phi Beta Kappa</i> Minor in Computer Science		
Experience	Postdoctoral Scholar, UC Santa Barbara. Advisor:	Lorraine Lisiecki 202	22-
Awards	NOAA Climate and Global Change Fellowship (alternate))22
	Cushman Foundation Johanna M. Resig Fellowship (\$30,000))21
	IODP Schlanger Fellowship (\$30,000)	20)20
	Columbia University GSAS Dean's Fellowship		016
Woods Hole Oceanographic Institution Summer St		udent Fellowship 20)15
	USC Dornsife Harry Miller Scholarship)15
	USC Dornsife Sylas and Rose Marx Meyer Scholars	ship 20)15
	USC Earth Sciences Richard O. Stone Scholarship	2012, 2014, 20)15
Publications Zeng, M., Rashid, H., Zhou, Y. , McManus, J.F., Wang, Y. (20 of the subpolar gyre and transition zone of the North At the last glacial cycle. <i>Quaternary Science Reviews</i> , 314, 10 doi:10.1016/j.quascirev.2023.108215		North Atlantic duri	
	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>Quarternary Science Reviews</i> , 300, 107914. doi: 10.1016/j.quascirev.2022.107914		
Zhou, Y. and McManus, J.F. (2022), Extensive evidence for a L Laurentide Outburst (LILO) event. <i>Geology</i> , 50(8), 934-938 doi: 10.1130/G49956.1			glacial

- **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. *Earth and Planetary Science Letters*, 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), ²³⁰Th 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 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*.
- Hoogakker, B.A.A., Davis, K., Wang, Y., Kusch, S., Nilsson-Kerr, K., Hardisty, D.S., Jacobel, A., Macaya, D.R., Glock, N., Ni, S., Sepúlveda, J., Ren, A., Auderset, A., Hess, A., Meissner, K., Cardich, J., Anderson, R., Castillo, A., Costa, K., Barras, C., Basak, C., Bradbury, H.J., Brinkmann, I., Cook, M., Choquel, C., Diz, P., Donnenfield, J., Elling, F.J., Erdem, Z., Filipsson, H.L., Garrido, S., Gottschalk, J., Menon, A.G., Groeneveld, J., Hallmann, C., Hendy, I., Hennekam, R., Lu, L., Lynch-Stieglitz, J., Matos, L., Martínez-García, A., Molina, G., Muñoz, P., Moretti, S., Morford, J., Nuber, S., Radionovskaya, S., Reed Raven, M., Somes, C.J., Studer, A.S., Sweere, T., Tachikawa, K., Tapia, R., Tetard, M., Vollmer, T., Wu, S., Zhang, Y., Zheng, X., Zhou, Y.. Review of proxies for low-oxygen paleoceanographic reconstructions. In revision at Biogeosciences.
- **Zhou, Y.**, Lisiecki, L.E., Lee, T., Gebbie, G., and Lawrence, C.E. Regional benthic δ^{18} O stacks for the "41-kyr world" an Atlantic-Pacific divergence between 1.8-1.9 Ma. In revision at *Geophysical Research Letters*.
- **Zhou, Y.**, McManus, J.F., Pallone, C., Weinstein, G. A., Garcia, H. Abrupt weakening of Atlantic circulation at the last glacial inception. In review at *Nature Communications*.
- Conferences **Zhou, Y.**, Lisiecki, L.E., Meyers, S. A new probabilistic, orbitally tuned Pleistocene stack of benthic δ^{18} 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.**, Lisiecki, L.E. Rand, D., Hobart, B., Lee, T., Gebbie, G., and Lawrence, C.E. Revisiting the early Pleistocene "41-kyr world" benthic δ^{18} O stack an Atlantic-Pacific divergence during 1.8-1.9 ma. 2023 AGU Fall Meeting

- **Zhou, Y.** and McManus, J.F. Heinrich event ice discharge and the fate of the Atlantic Meridional Overturning Circulation. 2023 Comer Climate Conference
- Newall, S., Lisiecki, L.E., Rand, D., **Zhou, Y.**, Lee, T., Gebbie, G., and Lawrence, C.E. Ocean Sedimentation Rate Variability Measured in 100 Sediment Cores: Defining Useful Priors for Bayesian Age-Depth Modelling. 2023 AGU Fall Meeting
- Lisiecki, L.E., Lee, T., Rand, D., Hobart, B., **Zhou, Y.**, Newall, S., Gebbie, G., and Lawrence, C.E. Advantages and Applications of Multiproxy Age Models Produced by BIGMACS. 2023 AGU Fall Meeting
- Pandey, K., Mahesh, P., Grassia, F., Perrone, A., Khan, R., Farmer, E.C., **Zhou, Y.**, and McManus, J.F. An Analysis of the Central North Atlantic Ocean's Climate during the Last Interglacial Interval from Microfossil Planktonic Foraminifera. 2023 AGU Fall Meeting
- Grassia, F., Perrone, A., Walsh, E., Mahesh, P., Pandey, K., Lewis, S., Johnson, A., Farmer, E.C., **Zhou, Y.**, and McManus, J.F. Changes in Holocene Sea Surface Temperature in the Central North Atlantic Based on Abundance of Planktonic Foraminifera Species. 2023 AGU Fall Meeting
- Lisiecki, L.E., Raymo, M.E., **Zhou, Y.**, Rand, D., Hobart, B., Lee, T., Gebbie, G., and Lawrence, C.E. Revisiting the LR04 Pliocene-Pleistocene Benthic δ^{18} O Stack. 2023 AGU Fall Meeting
- Latting, H., McManus, J.F., **Zhou, Y.**, and Pallone, C. Deep Ocean Circulation in the West and East North Atlantic During the Last Glacial Period and Holocene. 2023 AGU Fall Meeting
- Lee, T., Lisiecki, L.E., Rand, D., Newall, S., Gebbie, G., **Zhou, Y.**, Hobart, B., and Lawrence, C.E. A resolution-consistent multi-proxy Bayesian age estimation algorithm. 2023 AGU Fall Meeting
- **Zhou, Y.**, Lisiecki, L.E., Rand, D., Hobart, B., Lee, T., Gebbie, G., and Lawrence, C.E. Revisiting Pleistocene benthic δ^{18} O stacks with BIGMACS. 2022 AGU Fall Meeting
- Hobart, B., Lisiecki, L.E., **Zhou, Y.**, and MacDonald, F.A. A Review of Mid-Miocene Oxygen Isotope Stratigraphy in Deep-Sea Cores. 2022 AGU Fall Meeting
- Lisiecki, L.E., Rand, D., Lee, T., Newall, S., **Zhou, Y.**, Gebbie, G., and Lawrence, C.E. Evaluating Probabilistic Age Models and Stacks for Different Proxy Types on the Iberian Margin. 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

- **Zhou, Y.** and McManus, J.F. Glacial carbon storage and water mass geometry in the North Atlantic. 2021 AGU Fall 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. 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 ¹⁰Be 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
- Cohall, M., McManus, J.F., and **Zhou, Y.** Evidence from the subtropical North Atlantic Ocean for the influence of iceberg discharge on ocean circulation and climate during the last ice age. 2020 AGU Ocean Sciences Meeting
- **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	Paleo/Environmental Seminar, University of Southern Californ	nia 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 A Research	atmospheric 2022		
	International Quaternary Webinar, University of Massachusett	s 2022		
	Climate-geochemistry departmental seminar, Max Planck Institute for Chemistry 2021			
SEAGOING EXPERIENCE	R/V Roger Revelle, UNOLS Coring PI training Aug. 22–Se	ept. 1, 2022		
	R/V $Tioga$, plankton towing and grab coring training Ju	ul. 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 Science Advances, Nature Communications, Environmental Research Letters, Earth and Planetary Science Letters, Geophysical Research Letters, Climate of the Past, Quaternary Science Reviews, Geo-Marine Letters, Marine Geology, and Quaternary Research			
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 Paleoceanography 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)