

76 Prof. Yige Zhang



Name: Yige Zhang

Organization: Assistant Professor of Oceanography

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Education

B.A. Geochemistry, Nanjing University, Nanjing, China, 2007

M.A. Marine Sciences, University of Georgia, Athens, USA, 2009

Ph.D. Geology and Geophysics, Yale University, New Haven, USA, 2014

Research Interests

Paleoceanography and Paleoclimatology: Cenozoic climate change; greenhouse gases; Earth System climate sensitivity; tropical Pacific ocean/atmosphere dynamics

Geochemistry: organic geochemistry; stable isotope geochemistry (clumped isotopes; compound-specific isotopes); global biogeochemical cycles

Geomicrobiology and Biogeochemistry: Archaea evolution

Major Publications

Zhang, Y.G., Pagani, M., Henderiks, J., and Ren, H., 2016: A long history of equatorial upwelling in the Pacific Ocean: in review.

Pearson, A., Hurley, S.J., Shah Walter, S.R., Kusch, S., Lichtin, S., and Zhang, Y.G., 2016: Stable carbon isotope ratios of intact GDGTs indicate heterogeneous sources to marine sediments. *Geochim. Cosmochim. Acta*, 181, 18-35.

Zhang, Y.G., Pagani, M., and Wang, Z., 2016: Ring Index: A new strategy to evaluate the integrity of TEX86 paleothermometry: *Paleoceanography*, 31, 220-232.

Da, J.W., Zhang, Y.G., Wang, H.T., Balsam, W., and Ji, J.F., 2015: An early Pleistocene atmospheric CO₂ record based on pedogenic carbonate from the Chinese loess deposits: *Earth Planet. Sci. Lett.*, 426, 69-75.

Zhang, Y.G., Pagani, M., and Liu, Z., 2014: Response to comment on "A 12-million-year temperature history of the tropical Pacific Ocean": *Science*, 346, 1467-b.

Zhang, Y.G., Pagani, M., and Liu, Z., 2014: A 12-million-year temperature history of the tropical Pacific Ocean: *Science*, 343, 84-86.

Kluge, T., Affek, H., Zhang, Y.G., Dublyansky, Y., Spötl, C., Immenhauser, A., and Richter, D.K., 2014: Clumped isotope thermometry of cryogenic cave carbonates: *Geochim. Cosmochim. Acta*, 126, 541-554.

Schouten, S. et al., (69 coauthors including Zhang, Y.G.), 2013: An interlaboratory study of TEX86 and BIT analysis of sediments, extracts and standard mixtures, *Geophys. Geochem. Geosyst.*, 14, 5263-5285.

Zhang, Y.G., Pagani, M., Liu, Z., Bohaty, S., and DeConto, R., 2013: A 40-million-year history of atmospheric CO₂: *Phil. Trans. Royal. Soc. A*, 371, 20130096.

Zhang, Y.G., Zhang, C.L., Liu, X. L., Li, L., Hinrichs, K. U., and Noakes, J.E., 2011: Methane

Index: A tetraether archaeal lipid biomarker indicator for detecting the instability of marine gas hydrates: *Earth Planet. Sci. Lett.*, 307, 525-534.

Boyd, E.S., Pearson, A., Pi, Y.D., Li, W.-J., Zhang, Y.G., He, L., Zhang, C.L., and Geesey, G.G., 2011: Temperature and pH controls on glycerol dibiphytanyl glycerol tetraether lipid composition in the hyperthermophilic crenarchaeote *Acidilobus sulfurireducens*: *Extremophiles*, 15, 59-65.

Zhang, Y.G., Ji, J.F., Balsam, W.L., Liu, L.W. and Chen J., 2009: Mid-Pliocene Asian monsoon intensification and the onset of Northern Hemisphere glaciation: *Geology*, 37, 599-602.

Zhang Y.G., Ji, J.F., Balsam, W.L. Liu, L.W. and Chen, J., 2007: High-resolution hematite and goethite record from ODP 1143, South China Sea: Co-evolution of monsoonal precipitation and El Niño over the last 600,000 years: *Earth Planet. Sci. Lett.*, 264, 136-150.