Yuxin Zhou

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Education

B.S. **University of Southern California**

Geological Sciences major, Computer Science minor, expected May 2016

Research Experience

Summer Fellow, Woods Hole Oceanographic Institution 2015

Laboratories of Dr. Delia Oppo and Dr. Geoffrey Gebbie

Measured foraminifera carbon isotopes and ran Green's function tracer simulations to investigate the oceanic d13C Suess Effect in the deep North Atlantic Ocean.

Research Assistant, USC Earth Sciences 2015

Laboratory of Dr. Scott Paterson

Ongoing project aiming to build upon and improve an existing mass balance and isostasy model for the Cordilleran Orogenic System, with potential application to long-term carbon cycle.

Research Assistant, USC Earth Sciences 2012-2014

Laboratory of Dr. Julien Emile-Geay

Processed general circulation model outputs to produce synthetic coral records and analyzed their ENSO variability and seasonal cycle amplitude.

Honors and Awards

Woods Hole Oceanographic Institution Summer Student Fellowship 2015

USC Dornsife Student Opportunities for Academic Research (SOAR) 2015

USC Dornsife Sylas and Rose Marx Meyer Scholarship 2015

USC Earth Sciences Undergraduate Research Apprenticeship Program (ESRAP)

2012, 2014, 2015

Seminar Presentations

USC Paleoenvironmental Seminar 2015

Magnitude of the Suess Effect in North Atlantic - a Study of Foraminifera and Transient Tracer Simulations

Woods Hole Oceanographic Institution Climate & Paleo Lunch 2015

Holocene constraints on simulated tropical Pacific climate

Conference Poster

Y. Zhou, D. Oppo, G. Gebbie, D. Thornalley, Magnitude of the Suess Effect in North Atlantic - a Study of Foraminifera and Transient Tracer Simulations, *2016 AGU Ocean Sciences Meeting*, submitted

Publications

J. Emile-Geay, K.M. Cobb, M. Carre, P. Braconnot, J. Leloup, **Y. Zhou**, S.P. Harrison, T. Correge, H.V. McGregor, M. Collins, R. Driscoll, M. Elliot, B. Schneider, A. Tudhope, Linkages between tropical Pacific seasonal, interannual, and orbital variability during the Holocene, *Nature Geoscience*, in press

S. Dee, D. Noone, N. Buenning, J. Emile-Geay, and **Y. Zhou** (2015), SPEEDY-IER: A fast atmospheric GCM with water isotope physics, *J. Geophys. Res. Atmos.*, 120, 73–91

Campus and Community Service

USC Sigma Gamma Epsilon Earth Sciences Honor Society

President 2015 – present

Secretary 2014 – 2015

Learning Assistant, USC Disability Services & Programs 2014

Philosophy Teacher, Alliance Judy Ivie Burton Technology Academy High School, Teaching Ethics Program 2014

Oceanography Teacher, Lenicia B. Weemes Elementary School, Joint Education Program 2012