**Yi Wang**

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**EDUCATION**

**University of Michigan**, Ann Arbor, MI **2015-2020**

**Ph.D.**, Advisor: Prof. Ingrid Hendy

Department of Earth and Environmental Sciences

GPA: 4.0/4.0

*Graduate Teaching Certificate*,

Center for Research on Learning and Teaching (CRLT) **2018**

*Diversity, Equity & Inclusion (DEI) Graduate Certificate* **2019**

**Xiamen University,** Xiamen, China **2010-2014**

B.S. in Marine Chemistry & Geochemistry

GPA: 3.82/4.0

B.S. in Economics

**RESEARCH INTERESTS**

Oxygen minimum zone reconstruction, nitrogen cycling, thallium isotopes, coupled ocean-atmosphere responses to climate forcing, sedimentary diagenesis, environmental magnetism

**RESEARCH EXPERIENCES**

**Postdoctoral Scholar,** Woods Hole Oceanographic Institution **2020-2022**

*Thallium Isotopes as a Paleo-redox Tracer: Modern Validation and Paleo-applications*

Advisor: Dr. Sune Nielsen

**Graduate Research Assistant,** University of Michigan **2015-2020**

*Annual to Millennial Scale Oxygen Minimum Zone Expansion on the Southern California Margin: Proxies and Drivers*

Advisor: Prof. Ingrid Hendy

**Undergraduate Research Assistant**, Xiamen University **2011-2014**

*Efficiency of Extracting Nano-organic Carbon with Cross-flow Filtration System*

Advisor: Prof. Airong Zheng (Outstanding Undergraduate Thesis)

**Undergraduate Research Assistant,** Xiamen University **2012-2014**

State Key Laboratory of Marine Environmental Science

**PUBLICATIONS**

*IN PREP/IN REVIEW*

**Y. Wang**, and I. Hendy. Rapid deoxygenation of the Southern California Oxygen Minimum Zone during the Little Ice Age (*in prep.*)

*PUBLISHED*

**Y. Wang**, I. L. Hendy, and J. Zhu. Extreme low-oxygen conditions in the early-to mid- Holocene associated with ventilation shifts in the Northeast Pacific, Quaternary Science Reviews, 238, doi:10.1016/j.quascirev.2020.106326.

**Y. Wang**, I. L. Hendy, and R. Thunell. Local and remote forcing of denitrification in the Northeast Pacific for the last 2000 years. Paleoceanography and Paleoclimatology, 34, doi:10.1029/2019PA003577

**Y. Wang**, I. L. Hendy, J. C. Latimer, D. Bilardello. Diagenesis and iron paleo-redox proxies: new perspectives from magnetic and iron speciation analyses in the Santa Barbara Basin, Chemical Geology, 519, 95-109, doi: 10.1016/j.chemgeo.2019.04.018.

**Y. Wang**. Post-deposition diagenesis indicated by mineralogy shifts from magnetic measurements. The IRM Quarterly, 27(1).

**Y. Wang**, I. L. Hendy, and T. Napier. Climate and anthropogenic controls of coastal deoxygenation on interannual to centennial timescales, Geophysical Research Letters. 44, 11,528–11,536, doi: 10.1002/2017GL075443

**AWARDS & HONORS**

Woods Hole Oceanographic Institution Postdoctoral Scholarship **2020**

Sigma Xi **2019**

AGU Outstanding Student Presentation Award **2019**

Shell Scholarship, University of Michigan **2019**

Barbour Scholarship **2018**

M-Write Fellow **2017**

Phi Kappa Phi **2017**

Steward R. Wallace Fellowship, University of Michigan  **2015, 2018**

Bendong Sa Fellowship (Highest honor at Xiamen University) **2014**

Outstanding Graduate, Xiamen University **2014**

Merit Student, Xiamen University  **2012-2014**

Dean’s List, Xiamen University **2012-2014**

Industrial and Commercial Bank of China Fellowship, Xiamen University **2013**

Second-class Scholarship, Xiamen University **2012**

National Scholarship **2011**

**GRANTS**

Rackham Graduate Student Research Grant ($3000) **2019**

ECORD Virtual Ship Travel Grant ($1200) **2019**

Scott Turner Research Grant ($8740 total) **2016, 17, 18, 19, 20**

Rackham Conference Travel Grant ($3700 total) **2016, 17, 18, 19**

Visiting Student Fellowship at Institute of Rock Magnetism (IRM) **2016**

Rackham Graduate Student Research Grant ($1500) **2016**

**TALKS**

“*Deciphering oceanic oxygenation responses to natural and anthropogenic forcing*”, Paleoclimate Seminar, Department of Earth and Environmental Sciences, University of Michigan **2019**

“*Trace metal evidence of Holocene ventilation changes in the Northeast Pacific*”, Paleoclimate Seminar, Department of Earth and Environmental Sciences, University of Michigan **2018**

“*Proxy Validation and Reconstruction of Coastal Deoxygenation in the Southern California*”, Paleoclimate Seminar, Department of Earth and Environmental Sciences, University of Michigan **2017**

“*Reconstructions of the Oxygen Minimum Zone (OMZ) in Santa Barbara Basin from greigite (Fe3S4)*”, Institute of Rock Magnetism (IRM), University of Minnesota. **2016**

**TEACHING EXPERIENCES**

Graduate Student Instructor (GSI) for **Physical World** (intro level) **2020**

GSI for **Aquatic Geochemistry** (upper level undergrad & grad) **2019**

Grader for **Introduction to Oceanography** (intro level) **2018**

**Mentoring**: Alex Postmaa (UROP undergrad, now MS student in Chemistry, University of Michigan)

Madeline Parks (undergrad) **2017-2018**

GSI (chief GSI in 2017) for **Introduction to Oceanography**  **2016 and 2017**

**FIELD EXPERIENCE**

Lake Michigan field trip for Physical Oceanography **2017**

Xisha Islands for aerosol and rain water sampling, Hainan, China (10 days) **2014**

Jiulong River sampling on R/V Haiyang II, field trip for Chemical Oceanography **2013**

**PROFESSIONAL DEVELOPMENT**

RELATE Science Communication Workshop **2019**

Prepare Future Faculty Seminar

Center for Research in Learning and Teaching (CRLT) **2019**

ECORD Virtual Ship Experience **2019**

M-Write Fellow to design writing prompts for undergraduate courses **2017**

Inclusive Teaching Seminar, CRLT **2017**

**OUTREACH AND SERVICE**

Committee for Diversity and Inclusion, WHOI **2020**

Reviewer for *Quaternary Science Reviews (×2), Marine Pollution Bulletin* **2018-**

Coach for National Science Olympiad, Slauson Middle School **2019**

Organizer, Departmental Career Development Workshops **2019**

Forsythe Middle School Science Fair judge  **2019**

SEEK Curriculum: Science class development for the 5th grade and Earth Science teaching at Estabrook Elementary School **2019**

Judge for Undergraduate Research Opportunity Program (UROP) Symposium, University of Michigan  **2018, 19**

Michigan Geophysical Union (MGU) Planning Committee **2018, 19**

Science Communication Fellow, Museum of Natural History,

University of Michigan **2017, 19**

Outreach talk: “*Suffocated Ocean in a Warming World*”

“*Earth: An Active Writer of Human History*”

Association for Women in Science (AWIS) mentoring circles **2017**

**CONFERENCE ABSTRACTS**

\* Undergraduate mentee

**Y.Wang**, I. Hendy. Intermediate water ventilation shifts in the NE Pacific drove extreme low-oxygen conditions in the early- to mid-Holocene, Goldschmidt Meeting, Barcelona, Spain, August 2019.

**Y.Wang**, I. Hendy, and R. Thunell. Bulk sediment δ15N responses to remote forcing in Northeast Pacific for the past two millennia. *Michigan Geophysical Union Meeting*, University of Michigan, April 2019.

**Y.Wang**, I. Hendy, and R. Thunell. Bulk sediment δ15N responses to remote forcing in Northeast Pacific for the past two millennia. *American Geophysical Union Fall Meeting*, Washington D.C., December 2018 (*Outstanding Student Presentation Award*).

G. Farina, I. Hendy, S. McClatchie, and **Y.Wang**. 1,500 Years of Anchovy and Sardine Population Response to Coastal Upwelling off Southern California. *15th Annual Meeting of Asia Oceania Geosciences Society*, Honolulu, June 2018.

A. Postmaa\*, **Y.Wang**, I. Hendy and R. Thunell. Carbon change in Santa Barbara Basin sediments during the last 2000 years. *UROP Symposium*, University of Michigan, April 2018.

**Y.Wang**, I. Hendy, and R. Thunell. High-resolution responses of sedimentary δ15N to climate change in the southern California for the past 2000 years. *Michigan Geophysical Union Meeting*, University of Michigan, April 2018.

**Y.Wang**, I. Hendy, and R. Thunell. High-resolution responses of sedimentary δ15N to climate change in the southern California for the past 2000 years. *American Geophysical Union Fall Meeting*, New Orleans, Lousinana, December 2017.

**Y.Wang**, I. Hendy and T. Napier. Climate and anthropogenic controlled oceanic oxygen concentration changes on centennial to interannual timescales in coastal upwelling zones. *Pacific Climate Workshop*, Pacific Grove, California, March 2017.

**Y.Wang**, I. Hendy and T. Napier. Redox-based reconstruction of the oxygen minimum zone for the past 250 years in the Santa Barbara Basin. *12th International Conference on Paleoceanography*, Utrecht, Netherlands, August 2016.

**PROFESSIONAL AFFILIATIONS**

American Geophysical Union, Geological Society of America, Geochemical Society, Association for Women in Science

**SKILLS AND EXPERTISE**

**Programming:** Matlab, Python, NCL. **Lab techniques:** Thermo Element 2 and iCAP Q inductively coupled plasma mass spectrometers (ICP-MS), scanning electron microscopy, X-ray diffraction, total organic carbon/nitrogen analyses, column chemistry, clean lab sample processing, and sediment sample preparation.

**COURSEWORK**

Paleoclimatology, Climate Data Analysis, Cloud and Precipitation Processes, Physical Oceanography, Data and Model Simulations, Aquatic Geochemistry, Isotope Geochemistry