

KAREN JIAXI WANG

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EDUCATION

Ph.D.	Department of Earth, Environmental, and Planetary Sciences, Brown University Advisor: Dr. Yongsong Huang	2022 (expected)
M. Sc.	Department of Earth, Environmental, and Planetary Sciences, Brown University Advisor: Dr. Yongsong Huang	2019
B. Sc.	School of Earth and Space Sciences, Peking University	2017

HONORS AND AWARDS

IBES Graduate Research, Training and Travel Award	2020
LacCore/CSDCO Visiting Graduate Student Travel Grant	2019
IBES Graduate Research, Training and Travel Award	2018
Chinese Academy of Sciences Stratigraphical Paleontology Scholarship	2016
Excellence in Undergraduate Research Training Program Award	2016
Kwang-Hua Educational Scholarship	2016
National Innovative Program Fellowship	2015

PEER-REVIEWED PUBLICATIONS

- Wang, K. J.**, Huang, Y., Majaneva, M., Belt, S., Liao, S., Novak, J., Kartzinel, T. R., Herbert, T. D., Richter, N., Cabedo-Sanz, P. (2021). Group 2i Isochrysidales produce characteristic alkenones reflecting sea ice distribution. *Nature Communications*, 12, 15.
- Liao, S., Yao, Y., Wang, L., **Wang, K. J.**, Amaral-Zettler, L., Longo, W. M., & Huang, Y. (2020). C41 methyl and C42 ethyl alkenones are biomarkers for Group II Isochrysidales. *Organic Geochemistry*, 147, 104081.
- Wang, K. J.**, O'Donnell, J. A., Longo, W. M., Amaral-Zettler, L., Li, G., Yao, Y., & Huang, Y. (2019). Group I alkenones and Isochrysidales in the world's largest maar lakes and their potential paleoclimate applications. *Organic Geochemistry*, 138, 103924.
- Yao, Y., Zhao, J., Longo, W. M., Li, G., Wang, X., Vachula, R. S., **Wang, K. J.**, Huang, Y. (2019). New insights into environmental controls on the occurrence and abundance of Group I alkenones and their paleoclimate applications: Evidence from volcanic lakes of northeastern China. *Earth and Planetary Science Letters*, 527, 115792.

Kaiser, J., **Wang, K. J.**, Rott, D., Li, G., Zheng, Y., Amaral-Zettler, L., ... & Huang, Y. (2019). Changes in long chain alkenone distributions and Isochrysidales groups along the Baltic Sea salinity gradient. *Organic geochemistry*, 127, 92-103.

Li, G., Li, L., Tarozo, R., Longo, W. M., **Wang, K. J.**, Dong, H., & Huang, Y. (2018). Microbial production of long-chain n-alkanes: Implication for interpreting sedimentary leaf wax signals. *Organic Geochemistry*, 115, 24-31.

PRESENTATIONS

Oral Presentations

“Species mixing of alkenone-producers at high latitude marginal oceans and its potential for sea ice margin reconstructions”, AGU Fall Meeting, Dec 2019

“Alkenone Paleoclimate Proxies --from marine to freshwater, from freshwater to marine”, Climate and Environment lunch bunch, Brown University, Nov 2018

“Freshwater alkenone producers”, LacCore/CSDCO Drilling And Coring Summer Institute, July 2018

Poster Presentations

“Demystifying the anomalous high-latitude marine alkenones: new paleo-sea ice proxies”, AGU Fall Meeting, Dec 2020

“Occurrence of Group I Isochrysidales in Alaska Maar lakes and its implications for alkenone based paleotemperature proxy”, AGU Fall Meeting, Dec 2018

TEACHING EXPERIENCE

Teaching Assistant

Lead lab sessions and field work, graded homework and held office hours
GEOL 1370 Environmental Geochemistry (fall 2018, fall 2020)

Undergraduate Mentor

Mentored five undergraduates doing research with Prof. Yongsong Huang. Discussed research plan and thesis writing, walked through general analytical chemistry methods in labs (2018, 2019, 2020)

FIELD EXPERIENCE

Coring of Imuruk Lake, Seward Peninsula, Alaska	2019
Surface sediment sampling of White Fish Lake, Seward Peninsula, Alaska	2017
Surface sediment sampling of crater lakes, Inner Mongolia, China	2017

PROFESSIONAL TRAINING

Summer school

- Urbino Summer School (USSP), 2018

- LacCore/CSDCO Drilling And Coring Summer Institute, 2018

PROFESSIONAL SERVICE

Peer-Reviewed Articles for:

- Earth Surface Processes and Landforms

LANGUAGES

English (native), Chinese (native)

COMPUTER SKILLS

Programming: MatLab