

QING-ZENG ZHU



EDUCATION

2020

MARUM, Bremen University

Ph.D. in Organic Geochemistry

📍 Bremen, Germany

Thesis: Stable carbon isotopic studies of microbial lipids from distinct geochemical marine environments

2015

Chinese Academy of Sciences

M.S. in Quaternary Geology

📍 Beijing, China

Thesis: Paleoclimatic changes during the past 8,000 years from annually laminated sediment in maar lake Twintaung, Myanmar

2012

China University of Geosciences

B.S. in Applied Chemistry

📍 Wuhan, China



CONTACT INFO

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For more information, please contact me via email.



RESEARCH EXPERIENCE

2020

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now

Postdoc in studying the secondary production in marine sediments

MARUM & Utrecht University

📍 Germany & Netherlands

- Performed incubation experiment with stable isotope probing (SIP) and examine the new production of lipids and proteins.
- With the help of RNA-SIP, we can clearly constrain the microbial community which is dominant in reshaping the OM pool in deep sediments.

SKILLS

Lipidomics

Stable isotope probing (SIP)

Amino acid analysis

GC-MS, GC-IRMS, HPLC-MS

R language



SELECTED PUBLICATIONS

2020

Drought cycles over the last 8,200 years recorded in Maar Lake Twintaung, Myanmar

Journal of Geophysical Research: Atmospheres, 125, e2019JD032225

Chu, G., **Zhu, Q.-Z.**, Sun, Q., Su, Y., Xie, M., Zaw, T., Sein, K.

This publication is based on my master thesis

Resume made with [pagedown](#).

Last updated on 2021-01-20.

2020

Lipid analysis of CO₂-rich subsurface aquifers suggests an autotrophy-based deep biosphere with lysolipids enriched in CPR bacteria

ISME J, 14, 1547–1560

Probst, A.J., Elling, F.J., Castelle, C.J., **Zhu, Q-Z.**, Elvert, M., Birarda, G., Holman, H.-Y.N., Lane, K.R., Ladd, B. and Ryan, M.C.

2017

The role of the Asian winter monsoon in the rapid propagation of abrupt climate changes during the last deglaciation

Quaternary Science Reviews, 177, 120-129

Chu, G., Sun, Q., **Zhu, Q-Z.**, Shan, Y., Shang, W., Ling, Y., Su, Y., Xie, M., Wang, X. and Liu, J.

2014

A soil water extraction method with accelerated solvent extraction technique for stable isotope analysis

Chin J Anal Chem, 42(9), 1270-1275.

Zhu, Q-Z., Sun, Q., Su, ZG, Xie, MM, Song, JY, Shan, YB, Wang, N, Chu, G-Q

This publication is based on a side project of my master study



HOBBIES

Music

Erhu (Chinese musical instrument) and Sing

Sport

Marathon (2014 Beijing, 2017 and 2018 Bremen)