**Zhongshi Zhang**

ORCID: <http://orcid.org/0000-0002-2354-1622>

ResearcherID: L-2891-2013

**EDUCATION\***

*2000-2005* PhD: **Disputation date:** *15.05.2005.*

Geology, Graduate School of Chinese Academy of Sciences, China

**CURRENT AND PREVIOUS POSITIONS\***

*2024-* Professor

Peking University, Beijing, China

*2015-2024* Professor

China University of Geoscience, Wuhan, China

*2007-2015* Research Scientist

Norce Research Climate, Bjerknes Centre for climate Research, Norway

*2005-2007* Post-doctor

Institute of Atmospheric Physics, Chinese Academy of Sciences

**FELLOWSHIPS AND AWARDS**

*2024* XPLORER Prize, China

*2015* Liu Tungsheng Prize for Young Earth Scientists, China

**PROJECTS**

*2018-2023* Project leader

Historical extreme climate events and their social impacts, National Key Research and Development Program of China, China

*2015* Project leader (DIFFOBRES)

Investigation of weaker and stronger obliquity responses during the Pliocene and the Pleistocene, Research Council of Norway, Norway

*2013-2017* Work package leader (OCCP)

Ocean Controls on high latitude Climate sensitivity – a Pliocene case study, Research Council of Norway, Norway

*2013-2017* Work package leader (PEGSIE)

Pliocene East Greenland Current and Sea Ice Evolution, Research Council of Norway, Norway

*2011-2014* Scientist (DYNAWARM)

Dynamics of Past Warm Climates, Centre for Climate Dynamics at the Bjerknes Centre, Norway

*2010-2012* Project Leader

Climate impact of AMOC reversal on East Asian monsoon ~15Ma, National Nature Science Foundation of China, China

*2009-2014* Lead Scientist

Earth System Modelling, Statoil ASA, Norway

*2007-2009* Lead Scientist

Paleo-Climate Modelling of Organic Rich Sediments (PALMORC II), StatoilHydro ASA, Norway

**SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS**

*2020-* Caoyi Dong (PhD student), Department of Atmosphere Science, CUG, China

*2019-2022* Yongjie Li (Master student), Department of Atmosphere Science, CUG, China

*2019-* Xijing Wang (PhD student), Department of Atmosphere Science, CUG, China

*2018-2021* Shangrong Zhou (Master student), Department of Atmosphere Science, CUG, China

*2017-2021* Gaowen Dai (PhD student), Department of Atmosphere Science, CUG, China

*2016-2019* Shan Leng (Master student), Department of Atmosphere Science, CUG, China

*2015-2020* Xiangyu Li (Post-doc), Nansen-Zhu International Research Centre\*, Institute of Atmospheric Physics, China

*2011-2012* Ran Zhang (Post-doc), CCRC, Institute of Atmospheric Physics, China

*2011-2013* Qing Yan (PhD student), Nansen-Zhu International Research Centre\*, IAP, China

**TEACHING ACTIVITIES**

*2015-2024* Professor – paleoclimate modelling, Department of Atmosphere Science, CUG, China

**ORGANISATION OF SCIENTIFIC MEETINGS**

*2021-2023* Co-convener of CL1.14 “Deep-time climate simulation and reconstruction” at EGU meeting

*2017* Norway-China Paleoclimate workshop, Wuhan, China

**INSTITUTIONAL RESPONSIBILITIES**

*2017-2021* Committee member of Anqi Lyv (PhD student), UCL, Belgium, PhD

*2015-2018* Committee member of Ning Tan (PhD student), LSCE, France, PhD

**MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

*2015-* Trustee, Chinese Association for Quaternary Research

*2014-2015* AGU member

**Track record**

* **Select publications**

(I have **130** publications in total, including **9** publications on Nature, Nature sister journals and PNAS. My publications have been cited more than **2000** times according to Google scholar.)

1. **Zhang Z.-S.** \*, Zhang Z., Zhang Z., Tan N., He Z., Huang C., Guo Z. , Resolving Cenozoic climate pattern debate in East Asia: Insights from orbital-scale oscillations, Global and Planetary Change, 232, 2024, 104346, <https://doi.org/10.1016/j.gloplacha.2023.104346>.
2. **Zhang, Z.-S.** \*，[Jansen E.](https://www.nstl.gov.cn/search.html?t=JournalPaper&q=5L2c6ICF77yaSmFuc2VuIEV5c3RlaW4)，[Sobolowski S.P.](https://www.nstl.gov.cn/search.html?t=JournalPaper&q=5L2c6ICF77yaU29ib2xvd3NraSBTdGVmYW4gUGlldGVy)，[Otterå O.H.](https://www.nstl.gov.cn/search.html?t=JournalPaper&q=5L2c6ICF77yaT3R0ZXLDpSBPZGQgSGVsZ2U" \t "https://www.nstl.gov.cn/_blank), [Ramstein G.,](https://www.nstl.gov.cn/search.html?t=JournalPaper&q=5L2c6ICF77yaUmFtc3RlaW4gR2lsbGVz) [Guo C.](https://www.nstl.gov.cn/search.html?t=JournalPaper&q=5L2c6ICF77yaR3VvIENodW5jaGVuZw), [Nummelin A.,](https://www.nstl.gov.cn/search.html?t=JournalPaper&q=5L2c6ICF77yaTnVtbWVsaW4gQWxla3Np) [Bentsen M.,](https://www.nstl.gov.cn/search.html?t=JournalPaper&q=5L2c6ICF77yaQmVudHNlbiBNYXRz) [Dong C.,](https://www.nstl.gov.cn/search.html?t=JournalPaper&q=5L2c6ICF77yaRG9uZyBDYW95aQ) [Wang X.](https://www.nstl.gov.cn/search.html?t=JournalPaper&q=5L2c6ICF77yaV2FuZyBYaWppbg), [Wang H.,](https://www.nstl.gov.cn/search.html?t=JournalPaper&q=5L2c6ICF77yaV2FuZyBIdWlqdW4) [Guo Z.,](https://www.nstl.gov.cn/search.html?t=JournalPaper&q=5L2c6ICF77yaR3VvIFpoZW5ndGFuZw) Atmospheric and oceanic circulation altered by global mean sea-level rise, Nature Geoscience,16, 2023, https://doi.org/10.1038/s41561-023-01153-y
3. **Zhang, Z.-S.** \*, Li, X., Guo, C., Otterå, O. H., Nisancioglu, K. H., Tan, N., Contoux, C., Ramstein, G., Feng, R., Otto-Bliesner, B. L., Brady, E., Chandan, D., Peltier, W. R., Baatsen, M. L. J., von der Heydt, A. S., Weiffenbach, J. E., Stepanek, C., Lohmann, G., Zhang, Q., Li, Q., Chandler, M. A., Sohl, L. E., Haywood, A. M., Hunter, S. J., Tindall, J. C., Williams, C., Lunt, D. J., Chan, W.-L., and Abe-Ouchi, A.: Mid-Pliocene Atlantic Meridional Overturning Circulation simulated in PlioMIP2, Clim. Past, 17, 529–543, https://doi.org/10.5194/cp-17-529-2021, 2021.
4. Li, X., Guo, C., **Zhang, Z.-S.\***, Otterå, O. H., and Zhang, R.: PlioMIP2 simulation with NorESM-L and NorESM1-F, *Clim. Past*, 16, 183–197, (2020).
5. Yan Q.\*, Korty R., **Zhang Z.-S.**\*, and Wang H.-J. Evolution of tropical cyclone genesis regions during the Cenozoic era. *Nature Communications*, 10, 3076, doi:10.1038/s41467-019-11110-2, (2019).
6. Li, X.-Y., Zhang, R., **Zhang, Z.-S.\***, Yan, Q. Do climate simulations support the existence of East Asian monsoon climate in the Late Eocene? *Palaeogeography Palaeoclimatology Palaeoecology*, 509, 47-57, (2018).
7. Li, X.-Y., Zhang, R., **Zhang, Z.-S.\***, Yan, Q. What enhanced the aridity in Eocene Asian inland: global cooling or early Tibetan Plateau uplift? *Palaeogeography Palaeoclimatology Palaeoecology*, 510, 6-14, (2018).
8. Zhang, R.\*, Jiang, D.-B., Ramstein, G., **Zhang, Z.-S.\***, Lippert, P. C., Yu, E.-T. Changes in Tibetan Plateau latitude as an important factor for understanding East Asian climate since the Eocene: A modeling study. *Earth and Planetary Science Letters*, 484, 295-308, (2018).
9. Zhang, R.\*, **Zhang, Z.-S.\***, Jiang, D.-B. Global cooling contributed to the establishment of a modern-like East Asian monsoon climate by the early Miocene. *Geophysical Research Letters*, 45, 11941-11948, (2018).
10. Yan, Q., **Zhang, Z.-S.\***, Wang, H.-J., Jiang, D.-B. Simulated warm periods of climate over China during the last two millennia: The Sui-Tang warm period versus the Song-Yuan warm period. *Journal of Geophysical Research*, 120, 2229-2241, (2015).
11. **Zhang, Z.-S.\***, Ramstein, G., Schuster, M., Li, C., Contoux, C., Yan, Q. Aridification of the Sahara desert caused by Tethys Sea shrinkage during Late Miocene. *Nature*, 513, 401-404, (2014).
12. **Zhang, Z.-S.\***, Nisancioglu, K. H., Chandler, M. A., Haywood, A. M., Otto-Bliesner, B. L., Ramstein, G., Stepanek, C., Abe-Ouchi, A., Chan, W.-L., Bragg, F. J., Contoux, C., Dolan, A. M., Hill, D. J., Jost, A., Kamae, Y., Lohmann, G., Lunt, D. J., Rosenbloom, N. A., Sohl, L. E., Ueda, H. Mid-pliocene Atlantic meridional overturning circulation not unlike modern. *Climate of the Past*, *9*, 1495–1504, (2013).
13. **Zhang, Z.-S.\***, Nisancioglu, K., Ninnemann, U. Increased ventilation of Antarctic deep water during the warm mid-Pliocene. *Nature Communications*, 4, 1499, (2013).

**\*** shows the corresponding author(s).

* **Invited presentations**

(I have invited presentation over **12** times, including one in the Norway-China collaboration strategy meeting hold in the Norwegian Research Council.)

1. **Zhang, Z.-S., 2023.** Influence of global mean sea-level rise on atmospheric and oceanic circulations, IUGG  General Assembly, Berlin, 11-20 July.
2. **Zhang, Z.-S., 2023.** Influence of global mean sea-level rise on atmospheric and oceanic circulations, PMIP wings, 30 Mar.
3. **Zhang, Z.-S.,** 2018. Understanding paleoclimate for our future: lessons from past warm climate. AGU fall meeting, Washington DC, 10-14 Dec.
4. **Zhang, Z.-S.,** 2016. Book review for Martin Williams, Climate Change in Deserts: Past, Present and Future.
5. **Zhang, Z.-S.**, 2015. Understanding paleoclimate for our future: lessons from past warm climate. SINCIERE Conference, Norwegian Research Council, Oslo, 24-25 Aug.
6. **Zhang, Z.-S.**, 2014. Nisancioglu, K., Ninnemann, U.S. Increased ventilation of Antarctic deep water during the warm mid-Pliocene. AGU Fall Meeting, San Francisco, 15-19 Dec.
7. Nisancioglu, K. H., **Zhang, Z. S., 2014.** Modeling Cenozoic climate and the Greenhouse to ice house transition: - 50 million years of climate change. Centre for Earth Evolution and Dynamics, Oslo, 14 Oct.
8. **Zhang, Z.-S.** 2014. Aridification of the Sahara desert caused by Tethys Sea shrinkage during Late Miocene. Nanjing Univeristy of Information Science and Technology, Nanjing, 1-3 Nov.