CURRICULUM VITAE

Name Zhengquan Zhou

Academic qualifications

2018 - 2023	Ph.D. in Marine Ecology, Utrecht University, the Netherlands
2015 - 2018	M.Sc. in Marine Biology, Chinese Academy of Sciences, China
2011 - 2015	B.Sc. in Aquaculture Science, Yantai University, China

Academic positions

2023 - 2025	Post-doc, University of Hong Kong
2023	Post-doc, Royal Netherlands Institute for Sea Research (NIOZ)

Research interests

My research examines how marine environmental extremes impact keystone benthic species and the resilience of coastal ecosystems. By combining controlled experiments with statistical modeling, I investigate the behavioral and physiological responses of invertebrates, especially through bioturbation feedback, to gain a deeper understanding of the mechanisms underpinning ecological stability in the face of climate change. Please verify my full academic record on ORCID and my R coding skills through GitHub repositories.

First-author publications

- **Zhou, Z.**, Fivash, G.S., Cozzoli, F., Walles, B., Troost, K., Ysebaert, T. and Bouma, T.J., 2025. Compound extreme events reshuffle the stacked odds in the gamble between native and introduced bivalves. *Global Ecology and Conservation*, p.e03918.
- **Zhou, Z.**, Grandjean, T.J., de Smit, J., van Belzen, J., Fivash, G.S., Walles, B., Beauchard, O., van Dalen, J., Blok, D.B., van IJzerloo, L. and Ysebaert, T., 2024. Sediment dynamics shape macrofauna mobility traits and abundance on tidal flats. *Limnology and Oceanography*, 69(10), pp.2278-2293.
- **Zhou, Z.**, Steiner, N., Fivash, G.S., Cozzoli, F., Blok, D.B., van IJzerloo, L., van Dalen, J., Ysebaert, T., Walles, B. and Bouma, T.J., 2023. Temporal dynamics of heatwaves are key drivers of sediment mixing by bioturbators. *Limnology and Oceanography*, 68(5), pp.1105-1116.
- **Zhou, Z.**, Bouma, T.J., Fivash, G.S., Ysebaert, T., van IJzerloo, L., van Dalen, J., van Dam, B. and Walles, B., 2022. Thermal stress affects bioturbators' burrowing behavior: A mesocosm experiment on common cockles (*Cerastoderma edule*). *Science of the Total Environment*, 824, p.153621.
- **Zhou, Z.**, Li, X., Chen, L., Li, B., Wang, C., Guo, J., Shi, P., Yang, L., Liu, B. and Song, B., 2019. Effects of diesel oil spill on macrobenthic assemblages at the intertidal zone: A mesocosm experiment in situ. *Marine environmental research*, 152, p.104823.
- **Zhou, Z.**, Li, X., Chen, L., Li, B., Liu, T., Ai, B., Yang, L., Liu, B. and Chen, Q., 2018. Macrobenthic assemblage characteristics under stressed waters and ecological health assessment using AMBI and M-AMBI: a case study at the Xin'an River Estuary, Yantai, China. *Acta Oceanologica Sinica*, 37, pp.77-86.

Co-authored publications

- Lehuen, A., Oulhen, R.M., **Zhou, Z.**, de Smit, J., van Ijzerloo, L., Cozzoli, F., Bouma, T. and Orvain, F., 2024. Multispecies macrozoobenthic seasonal bioturbation effect on sediment erodibility. *Journal of Sea Research*, p.102525.
- Chen, L., Lutaenko, K.A., Li, X., Li, X., **Zhou, Z.**, Li, B., Pavlyuk, O.N. and Tarasova, T.S., 2020. Long-term changes of marine subtidal benthic communities in North East Asia (Yellow and Japan seas) in a global change context: A review. *Aquatic Conservation: Marine and Freshwater Ecosystems*, *30*(7), pp.1451-1475.
- Li, B., **Zhou, Z.**, Li, B., Wang, Q., Li, X. and Chen, L., 2018. Size distribution of individuals in the population of Asterias amurensis (Echinodermata: Asteroidea) and its reproductive cycle in China. *Acta Oceanologica Sinica*, *37*, pp.96-103.
- Li, B., Li, X., Bouma, T.J., Soissons, L.M., Cozzoli, F., Wang, Q., **Zhou, Z.** and Chen, L., 2017. Analysis of macrobenthic assemblages and ecological health of Yellow River Delta, China, using AMBI & M-AMBI assessment method. *Marine Pollution Bulletin*, *119*(2), pp.23-32.

Conferences and talks

- *International Temperate Reefs Symposium (ITRS)*, 2025
  ITRS Committee, Oral presentation
- *NWO-Life Conference*, 2023
  Dutch Research Council, Prompt talk and poster presentation
- *International Symposium on Coastal Resources and Environment (CORE)*, 2021
  International Association of Hydro-Environment Engineering and Research (IAHR), Oral presentation

Funding applications

- *Assessing impacts of sea urchin grazing on Sargassum biodiversity in Hong Kong waters,* Environment and Conservation Fund, 2025, *Under review*
- *The effects of macrobenthic bioturbation on tidal flats: applying flume systems and long-term field research*, Chinese High-Level University Postgraduate Project, China Scholarship Council (*CSC, Grant No. 201804910683*), 2018-2022, *Awarded*

Awards and certification

- *Academician Liu Ruiyu Marine Science Scholarship*, 2018
- *Outstanding Student Leader Award*, University of Chinese Academy of Sciences, 2018
- *Cambridge Business English Certificate Higher* (CEFR Level C1)

Academic service and supervision

- **Journal review:** Reviewer for journals including *Global Change Biology, Estuarine, Coastal and Shelf Science*, *Wetlands*, *Environmental Sciences Europe*, and *AIMS Geosciences*.
- **Student supervision:** Supervised six undergraduate and master's students from the University of Hong Kong, Utrecht University, Ghent University, HAN University of Applied Sciences, and HZ University of Applied Sciences.