

Minglin Zheng

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EDUCATION

National University of Defense Technology (NUDT, 985 Project university) Sep.2021-Now
MA in Marine Science (Expected Jan.2024) GPA: 3.79/4.0
Relevant Coursework: Basic Mathematic Physics, Air-sea Interaction, Weather Analysis and Forecasting, Advanced Physical Oceanography, Remote sensing technique of oceanography

Sun Yat-sen University (SYSU, 985 Project university) Sep.2017-Jun.2021
BA in Atmospheric Science GPA: 3.8/4.0
Relevant Coursework: Advanced Mathematics, Method of Mathematic Physics, Fluid Dynamics, Dynamic Meteorology, Synoptic Meteorology, Tropical Meteorology, Radar Meteorology, Numerical Weather Forecasting

PUBLICATIONS

- **Zheng, M. L.**, Zhang, Z., Zhang, W. M., et al., 2023. Effects of ocean states coupling on the simulated Super Typhoon Megi (2010) in the South China Sea. *Front. Mar. Sci.* 10:1105687. doi: 10.3389/fmars.2023.1105687
- **Zheng, M. L.**, & Li, X. Z., 2022. Distinct patterns of monthly Southern Annular Mode events. *Atmos. Oceanic Sci. Lett.*, 15(4), 100206. doi: 10.1016/j.aosl.2022.100206
- Kelvin T F Chan, Dong, Z. Y., & **Zheng, M. L.**, 2021. Statistical seasonal forecasting of tropical cyclones over the western North Pacific. *Environ. Res. Lett.* 16, 074027. doi: 10.1088/1748-9326/ac05f1
- **Zheng, M. L.**, Dong, Z. Y., et al., 2020. A Central Air Conditioning Control Strategy to Enhance Thermal Comfort in Library Buildings. *Proceedings of the 11th ISHVAC*, pp 385–393.

SELECTED RESEARCH EXPERIENCE

Research Interests: Tropical cyclone(TC) dynamics, Air-sea Interaction, Numerical Weather Modelling

NUDT College of Meteorology and Oceanography, Graduate Researcher Changsha, China
Advisor: Prof. Weimin Zhang & Dr. Ze Zhang Sep.2021-Present

- Aimed to understand the role of TC dynamics on mechanisms of TC rapid weakening.
- Applied coupled atmosphere–ocean–wave model to discover the effects of ocean and waves on typhoon.
- Published work in *Frontiers in Marine Science* in Feb 2023.

SYSU School of Atmospheric Sciences, Undergraduate Researcher Zhuhai, China
Advisor: Prof. Xiuzhen Li Sep.2020-Mar.2022

- Applied the self-organizing map to extract the distinct patterns of monthly Southern Annular Mode events.
- Analyzed the zonal asymmetry in Antarctic pressure and polar front jet.
- Published in *Atmospheric and Oceanic Science Letters* in Mar 2022 (Editor's choice)

Advisor: Dr. Kelvin T. F. CHAN Nov.2018-Jul.2021

- Proposed an effective statistical forecasting model for the number of TCs over the western North Pacific
- Published as a co-author in *Environmental Research Letter* in Jul 2021

SELECTED AWARDS

- The 5th National Five-Minute Research Presentation(5MRP) Competition, 3rd Prize 2022
- The 18th "Huawei Cup" China Post-Graduate Mathematical Contest in Modeling, 2nd Prize 2021
- 2020 Mathematical Contest In Modeling, Meritorious Winner 2020
- The Undergraduate Scholarship, 2nd Prize (Awarded by SYSU) 2020 & 2019
- The Individual Scholarship for Outstanding Students in Academic Research (Awarded by SYSU) 2019

SKILLS AND LANGUAGES

Programming NCL, Matlab, Python, Fortran, Linux
Modelling WRF, ROMS, SWAN, COAWST (fully coupled WRF-ROMS-SWAN)
Languages IELTS: 6.5