

# RESEARCH SEMINAR

DEPARTMENT OF GEOGRAPHY & RESOURCE MANAGEMENT  
THE CHINESE UNIVERSITY OF HONG KONG

## Zhong Shan Da Xue Ji Di's 2024 Arctic Voyage: A Journey of Observation and Exploration

21 November 2024 (Thu)  
4:30 – 6:00 pm (UTC+8)  
Rm 221, Chen Kou Bun Building, CUHK

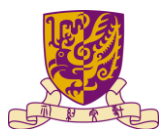
The 2024 Arctic voyage, led by Sun Yat-Sen University aboard the icebreaker *Zhong Shan Da Xue Ji Di*, marked a comprehensive observational journey through the Arctic's challenging landscapes. Spanning 74 days and 11,500 nautical miles, including 1,473 nautical miles within ice-covered regions, this expedition provided a unique platform for gathering extensive data on the Arctic environment. The research team conducted multidisciplinary observational missions aimed at understanding interactions among sea ice, ocean, and atmosphere, with a particular focus on the dynamics of the marginal ice zone. Researchers employed methods from remote sensing, oceanography, geophysics, and atmospheric science to gather essential observations on sea-ice drift, melting patterns, ocean circulation, and atmospheric feedback. The voyage offered a valuable opportunity to monitor seasonal changes and interactions within the Arctic environment, capturing data critical for understanding its response to climate pressures. This seminar will provide an in-depth overview of the expedition, detailing the mission's scope, observational approaches, and the methodologies applied across disciplines. Insights from this voyage contribute to foundational knowledge needed for advancing Arctic climate models and tracking environmental shifts in this rapidly changing region.



### Xue Wang

Associate Professor  
School of Geospatial Engineering and Science  
Sun Yat-Sen University

Prof. Xue Wang is a member of the scientific team for Zhong Shan Da Xue Ji Di's 2024 Arctic Voyage. She received her B.S. and M.S. degrees from Peking University, Beijing, China, in 2012 and 2015, respectively, and her Ph.D. degree from The Chinese University of Hong Kong, Hong Kong, in 2019. She currently works as an Associate Professor with the School of Geospatial Engineering and Science, Sun Yat-Sen University, Guangzhou, Guangdong, China. She also works as a Key Member of the Polar Oceans and Climate Change Innovation Team at Southern Marine Science and Engineering Guangdong Laboratory, Zhuhai, China. Her research interests include polar remote sensing and sea ice drift retrieval.



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