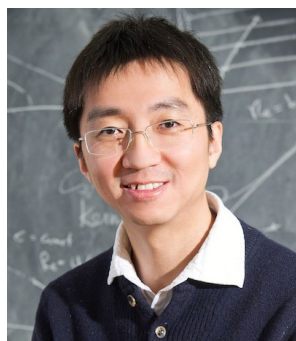


How much do we (not) know about carbon dioxide

11th December 2025 (Thu)
4:30 – 6:00 pm (UTC+8)
Rm 221, Chen Kou Bun
Building, CUHK

Carbon dioxide (CO₂) remains to be the primary driver of the ongoing climate change. While climate model predictions are verified by observations in terms of the overall global warming trend, there remain considerable unknowns and uncertainties about the climate forcing of CO₂ at the process level. This hinders our ability to quantify its climate impacts and to predict the continuing climate change resulting from this forcing. In this talk, I will discuss several remaining outstanding climate questions concerning atmospheric CO₂, including the spatiotemporal inhomogeneity and observational verification of its radiative forcing, as well as measuring its emission and variation at the city level.



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Professor
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Yi Huang is a Professor in Atmospheric and Oceanic Sciences at McGill University. He obtained his Ph.D. at Princeton University and was a Climate and Global Change Postdoctoral Fellow at Harvard University before joining the faculty at McGill. His research is focused on atmospheric radiation and remote sensing. He is a Science Lead of the new Canadian satellite mission, the High-altitude Aerosols, Water vapour and Clouds (HAWC), and the Principal Investigator of the GHG-Montreal project measuring 3D greenhouse gas variations in the Greater Montreal Area.



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