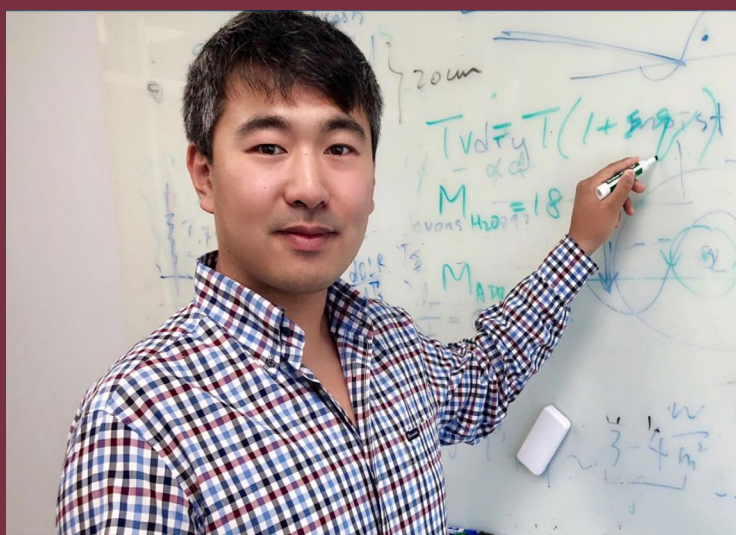




## Cold Air Rises

Conventional knowledge suggests that warm air rises while cold air sinks. In this seminar, the speaker will use satellite observations to show that, on average, rising air is colder than sinking air in the tropical atmosphere. This is due to the buoyancy effect of water vapor—an overlooked effect in studying large-scale circulations and climate. Preliminary analysis suggests that some state-of-art climate models have misrepresented the buoyancy effect of water vapor, which can lead to profound biases in simulating clouds, rainfall, and climate.



**Prof. Da Yang**  
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University of California, Davis

**Time:** 3:00 PM, Friday, September 10, 2021

**Zoom Link:** <https://fsu.zoom.us/j/95162245812?pwd=M29ranFxd2dUWlBqYTc1d0N4YkZYZz09>

**Please Contact Zhaohua Wu if you have any question.**