



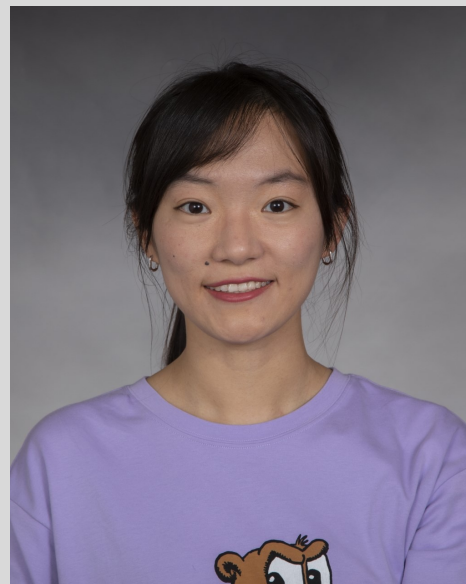
ATOC COLLOQUIUM

Welcome!

Please join us for the first ATOC Colloquium of the spring semester on **Friday, January 27** from **11:00 AM–12:00 PM**, which will be held in **SEEC S228 and simulcast over Zoom**. This week's colloquium features **Dr. Xinyue Wang (NCAR/ASP/ACOM)**. Please join us for coffee beginning at 10:45 AM and stay for lunch catered by Illegal Pete's afterwards.

Stratosphere-Troposphere Coupling and its Role in Atmospheric Composition and Climate

The coupling between the troposphere and the stratosphere is an important component of the global general circulation of the atmosphere. In this talk, I will focus on the two-way stratosphere-troposphere transport in the context of chemistry-climate coupling. First, I will show that the Hunga Tonga-Hunga Ha'apai volcanic eruption changed stratospheric temperatures and circulation, and caused midlatitude and polar ozone losses. Next, I will show you the fast transport paths connecting the Northern Hemisphere surface to the upper troposphere-lower stratosphere associated with summer monsoons. Last, I will talk about stratosphere-to-troposphere transport of ozone and its impact on the surface ozone budget and air quality over the western United States.



Location: SEEC S228 & Zoom

Zoom:

<https://cuboulder.zoom.us/j/97845417945>

Password: ATOC

About the ATOC Colloquium

The Department of Atmospheric and Oceanic Sciences (ATOC) Colloquium is typically held **every other Friday** from **11:00 AM–Noon**. Colloquia alternate between the following formats: (A) Full-length talk by a faculty member or invited speaker, (B) Three conference-length talks by graduate students. If you would like to nominate a speaker (including self), please email the ATOC Colloquium Committee Chair, Prof. Andrew Winters (andrew.c.winters@colorado.edu). Please visit www.colorado.edu/atoc/colloquium for further details.