

Chengji Liu

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Education

August 2017 (expected) Ph.D. Atmospheric Sciences, Colorado State University, US
June 2013 M.S. Meteorology, Nanjing University, China
June 2010 B.S. Atmospheric Sciences, Nanjing University, China

Employment

2013-current **Graduate Research Assistant**, Colorado State University
2010-2013 **Graduate Research Assistant**, Nanjing University

Publications

- **Liu, C.** and E. A. Barnes, Quantifying isentropic mixing linked to Rossby wave breaking in a modified Lagrangian coordinate. *submitted to Journal of the Atmospheric Sciences*.
- **Liu, C.** and E.A. Barnes, Synoptic formation of double tropopauses. *submitted to Journal of Geophysical Research*.
- Sun, W., P. Hess, **C. Liu**, 2017. The impact of meteorological persistence on the distribution and extremes of ozone, *Geophys. Res. Lett.*, 44, 1545-1553, doi:10.1002/2016GL071731.
- **Liu, C.** and E.A. Barnes, 2015. Extreme moisture transport into the Arctic linked to Rossby wave breaking. *Journal of Geophysical Research: Atmospheres*, 120(9), pp.3774-3788. doi:0.1002/2014JD022796.
- **Liu, C.**, X. Ren and X. Yang, 2014. Mean flow-storm track relationship and Rossby wave breaking in two types of El-Niño. *Advances in Atmospheric Sciences*, 31(1), pp.197-210. doi:10.1007/s00376-013-2297-7.

Presentations

2017 The role of Rossby wave breaking in the variability of global atmospheric transport and mixing (talk)
CIRES/NOAA CSD group meeting, Boulder, US

2017 Synoptic formation of double tropopauses. (talk)
NCAR Satellite data and UTLS group meeting, Boulder, US

2016 Quantifying isentropic mixing in a modified-Lagrangian coordinate: applications to Rossby wave breaking (poster)
AGU Annual Meeting, San Francisco, US

- 2015 Tropospheric transport linked to Rossby wave breaking in the GFDL dynamical core (poster)
AGU Annual Meeting, San Francisco, US
- 2015 Atmospheric transport linked to Rossby wave breaking in the GFDL dynamical core (poster)
SPARC storm track workshop, Grindelwald, Switzerland
- 2015 Atmospheric transport linked to Rossby wave breaking in the GFDL dynamical core (poster)
AOFD meeting, Minneapolis, US
- 2014 Extreme moisture transport into the Arctic linked to Rossby wave breaking (poster)
AGU Annual Meeting, San Francisco, US
- 2012 Differences in the impacts of two types of El-Niño on large-scale atmospheric circulation, storm tracks and Rossby wave breaking (poster)
ICDM workshop, Kunming, China

Service

- 2016 Reviewer for *Journal of climate* and *Climate Dynamics*
- 2016 Primary Convener for AGU session: Large-scale atmospheric transport and mixing: observations, modeling and theory (Poster).
- 2015 Primary Convener for AGU session: Large-scale atmospheric transport and mixing: observations, modeling and theory (Oral and Poster).

Teaching Experiences

- 2016 Teaching assistant for ATSS601: Atmospheric Dynamics I
- 2016 Mentor, Alexia Prospero, REU intern
- 2015 Mentor, Po-Chun Chung, visiting student from National Taiwan University
- 2012 Teaching assistant for Fluid Mechanics

Awards

- 2016 Shrake-Culler Scholarship, Colorado State University
- 2012 Outstanding Graduate Scholarship, Nanjing University
- 2008 & 2009 The people's scholarship, Nanjing University