

ANNE SASHA GLANVILLE

EDUCATION

Colorado State University (CSU)	2015
M.S. , Atmospheric Science	
<i>Thesis: Vertical and horizontal mixing in the tropical tropopause layer</i>	
University of Kansas (KU)	2012
B.S. , Atmospheric Science	
Minor , Mathematics	
<i>Graduated with Highest Distinction</i>	

RESEARCH POSITIONS

Associate Scientist I	June 2015 - present
NCAR Atmospheric Chemistry Observations and Modeling, Boulder, CO	
<i>Working with multiple research groups on quantifying stratospheric transport and its influence on background chemistry. Run full general circulation model experiments and manage the output.</i>	
Graduate Research Assistant	Aug. 2012 - May 2015
CSU Department of Atmospheric Science, Fort Collins, CO	
<i>Used a 1-D model to understand the effect of vertical and horizontal mixing on the tape recorder of water vapor.</i>	
Student Airborne Research Program Intern	June 2012 - Aug. 2012
NASA Dryden Aircraft Operations Facility, Palmdale, CA	
<i>Observed a stratospheric intrusion using gas chromatography while onboard a P-3 research aircraft.</i>	
Summer Student Fellowship Intern	June 2011 - Aug. 2011
Woods Hole Oceanographic Institution, Woods Hole, MA	
<i>Used observations and models to quantify the mechanisms forcing the Pacific Decadal Oscillation.</i>	
Summer Undergraduate Laboratory Intern	June 2010 - Aug. 2010
DOE Brookhaven National Laboratory, Upton, NY	
<i>Processed raw field campaign data for the ARM Climate Research Facility, increasing data availability by 25% in 10 weeks.</i>	

TEACHING POSITIONS AND OUTREACH

Occupational Therapy Volunteer Columbine Health, Fort Collins, CO <i>Met weekly with patients to help them re-learn fine motor skills.</i>	Aug. 2016 - Dec. 2016
Instructor (ATS 351 lab) CSU Department of Atmospheric Science, Fort Collins, CO <i>Full control of a 1-credit, ~15-student lab course available to non-atmospheric science undergraduate majors. Created lessons, homework, and hands-on experiments.</i>	Aug. 2014 - Dec. 2014
Teaching Assistant (Weather and Climate for Educators Workshop) CSU Department of Atmospheric Science, Fort Collins, CO <i>Trained high school teachers in weather and climate education.</i>	June 2014
Instructor, Tutor, and Supervisor (MATH 002 /101 lectures) KU Department of Mathematics, Lawrence, KS <i>Full control of 3-credit, 20-student main lecture courses focused on helping incoming students who underperformed on the ACT/SAT. Over two years, I taught 5 classes and supervised 15 instructors.</i>	Aug. 2010 - May 2012
Writing Tutor Intern KU Writing Center, Lawrence, KS <i>Worked one-on-one with undergraduates and graduates (including ESL students) to improve writing skill and confidence.</i>	Jan. 2009 - May 2009

AWARDS AND FUNDING

KU Atmospheric Science Student of the Year, Honorable Mention	2012
American Meteorological Society Scholarship	2012
KU Undergraduate Research Award	2011
Bohnstengel Scholarship in Geography	2011
Woods Hole Oceanographic Institution Summer Student Fellowship	2011

PUBLICATIONS

- Mills, M., J. Richter, S. Tilmes, B. Kravitz, D. MacMartin, **A. Glanville**, J. Tribbia, J.-F. Lamarque, F. Vitt, A. Schmidt, A. Gettelman, C. Hannay, J. Bacmeister, and D. Kinnison (2017), Radiative and chemical response to interactive stratospheric sulfate aerosols in fully coupled CESM1(WACCM), *J. Geophys. Res.*, submitted.
- Glanville, A.** and T. Birner (2017), Role of vertical and horizontal mixing in the tape recorder signal near the tropical tropopause, *Atmos. Chem. Phys.*, 17, 4337-4353.

INVITED SEMINAR PRESENTATIONS

NOAA, Earth System Research Laboratory, May 2016.

NCAR, Atmospheric Chemistry Observations and Modeling, April 2015.

CONFERENCE AND WORKSHOP PRESENTATIONS

First Author Presentations:

SPARC QBOi Workshop, Sept. 2016, Oxford.

“Influence of QBO-width on stratospheric transport and ozone fluxes in WACCM”

CESM Whole Atmosphere Working Group Meeting, June 2016, Breckenridge.

“Stratospheric transport and ozone fluxes resulting from different QBO widths in WACCM”

CESM Whole Atmosphere Working Group Meeting, Feb. 2016, Boulder.

“Comparing QBO and ENSO impacts on stratospheric transport in WACCM”

Composition and Transport in the Tropical Tropopause/Lower Stratosphere, June 2015, Boulder.

“Vertical and horizontal mixing in the tropical tropopause layer”

American Meteorological Society Annual Meeting, Jan. 2015, Phoenix.

“Quantifying the contribution of vertical mixing to the tape recorder signal”

American Geophysical Union Fall Meeting, Dec. 2012, San Francisco.

“Identifying an early summer stratospheric intrusion using chemical tracers and dynamics”

Co-Author Presentations:

International Global Atmospheric Chemistry Conference, Sept. 2016, Breckenridge.

“The stratospheric contribution to tropospheric ozone variability and trends” (Neu, J.)

American Geophysical Union Fall Meeting, Dec. 2015, San Francisco.

“Understanding the tropospheric O₃ response to changes in the stratospheric circ.” (Neu, J.)

US-Japan Bilateral Workshop on the Tropical Tropopause Layer, Oct. 2012, Honolulu.

“Campaign logistics, mapping, and discussion” (student group)

DOE Annual Integrated Climate Modeling Science Team Meeting, Sept. 2011, Washington D.C.

“Pacific decadal variability in the Community Climate System Model Ver. 4” (Kwon, Y.-O.)

The 2nd Atmospheric System Research Science Team Meeting, March 2011, San Antonio.

“Improved search, discovery, and accessibility of field campaign data” (Cialella, A.)

FIELD CAMPAIGNS AND OTHER ACTIVITIES

Journal reviewer, Atmospheric Chemistry and Physics, Ongoing

Field Campaign, NASA Student Airborne Research Program, P-3 Aircraft, June 2012.

Field Campaign, WHOI Summer Student Fellowship, R/V Tioga, July 2011.

LANGUAGES

Fluent: MATLAB, bash/csh

Skilled: LaTeX, HTML, Fortran

Learning: NCL, IDL