CURRICULUM VITAE

MATTHEW W. CHRISTENSEN

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EDUCATION

Ph.D. *Atmospheric Science*
Colorado State University, Fort Collins, Colorado (2012)
Dissertation: *Microphysical and Macrophysical responses of marine stratocumulus polluted by underlying ships*
Advisor: Prof. Graeme Stephens

M.S. *Atmospheric Science*
Oregon State University, Corvallis, Oregon (2009)
Thesis: *Effects of solar heating on the indirect effect of aerosols as deduced from observations of ship tracks*
Advisor: Prof. James Coakley, Jr.

B.S. *Physics*
Oregon State University, Corvallis, Oregon (2006)

PROFESSIONAL EMPLOYMENT

Department of Atmospheric Science, Colorado State University
- Postdoctoral Fellow; affiliated with Climate Physics Research Group at JPL (2012 – Present)
- Graduate Research Assistant (2008 – 2012)
- Graduate Teaching Assistant, Atmospheric Remote Sensing (Fall 2010)

College of Oceanic and Atmospheric Sciences, Oregon State University
- Graduate Research Assistant (2006 – 2008)
- Graduate Teaching Assistant, Introduction to the Atmospheric Sciences (Winter 2008)

AWARDS

- Outstanding Student Paper Award (2011, AGU Fall Meeting)
- Shrake Culler Scholarship, Colorado State University (2010 – 2011)
- Leona Blum and Howard Schmadeke Scholarship, Oregon State University (2002 – 2006)

RESEARCH INTERESTS

- Aerosol-Cloud-Precipitation Interactions
- Remote Sensing of Ship Tracks and Marine Boundary Layer Clouds
- Large Eddy Simulation Modeling

PEER-REVIEWED PUBLICATIONS

Submitted/In Press

Christensen, M. W., G. L. Stephens, G. G. Carrió, and W. R. Cotton, Radiative impacts of free-tropospheric clouds on the properties of marine stratocumulus, *J. Geophys. Res* (in prep).

2012

Chen, Y.-C, M. W. Christensen, L. Xue, A. Sorooshian, G. L. Stephens, R. M. Rasmussen, and J. H. Seinfeld: Occurrence of lower cloud albedo in ship tracks, *Atmos. Chem. Phys. Discuss.*, **12**, 13553-13580, doi:10.5194/acpd-12-13553-2012.

Christensen, M. W., and G. L. Stephens (2012), Microphysical and macrophysical responses of marine stratocumulus polluted by underlying ships: 2. Impacts of haze on precipitating clouds, *J. Geophys. Res.*, **117**, D11203, doi:10.1029/2011JD017125.

2011

Christensen, M. W., and G. L. Stephens (2011), Microphysical and macrophysical responses of marine stratocumulus polluted by underlying ships: Evidence of cloud deepening, *J. Geophys. Res.*, **116**, D03201, doi:10.1029/2010JD014638.

2009

Christensen, M. W., J. A. Coakley. Jr., and W. R. Tahnk, 2009: Morning-to-Afternoon Evolution of Marine Stratus Polluted by Underlying Ships: Implications for the Relative Lifetimes of Polluted and Unpolluted Clouds, *J. Atmos. Sci.*, **66**, doi: 10.1175/2009JAS2951.1

PRESENTATIONS

CONFERENCES (ORAL)

"Weekly Seminar", Jet Propulsion Laboratory, Pasadena, CA, April 2012
"Workshop", Keck Institute For Space Studies, Pasadena, CA, May 2011
AGU Fall Meeting, San Francisco, CA, December 2009
AGU Fall Meeting, San Francisco, CA, December 2007

CONFERENCES (POSTER)

AGU Fall Meeting, San Francisco, CA, December 2011
Gordon Research Conference, Waterville, ME, July 2011
Gordon Research Conference, New London, NH, August 2007

INVITED SEMINARS
Keck Institute For Space Studies workshop, Pasadena, CA, Nov 2011

FACULTY AND STUDENT MEETINGS (ORAL)
Oregon State University (Spring 2006, Spring 2007, and Fall 2007)

PROFESSIONAL ACTIVITIES

- Instructed JPL summer intern (2012)
- Member: American Geophysical Union (2008 – Present)
- Peer Reviewer
  Journal of Applied Meteorology and Climate
  Atmospheric Chemistry and Physics