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Curriculum Vitae
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RESEARCH INTERESTS

Micrometeorology, representation of sub-gridscale processes in global climate models
Atmospheric boundary layer stability and its influence on surface wind variability

EDUCATION

1994	Calif. Polytechnic University, Pomona	Finance	B.S.
2004 –	University of California, Irvine	Earth System Science	Ph.D. Candidate

HONORS AND AWARDS

Honor Scholarship Society Member, Orange Coast College, 1990
Deans List, University of California, Irvine 2001
Outstanding Contributions to the Department of Earth System Science, 2006
First Place Poster Presentation Award, AMS Air-Sea Interaction Conference, 2007
2007–2008 UCI School of Physical Sciences ARCS Foundation Scholar

ACADEMIC EXPERIENCE

Graduate Research Assistant (Fall, 2004 –)

Department of Earth System Science, University of California, Irvine
Advisor: Dr. Charles S. Zender

Teaching Assistant (Fall, 2005)

The Physical Environment, Dr. James Famiglietti
Department of Earth System Science, University of California, Irvine

Teaching Assistant (Winter, 2006)

Climate Change and Policy, Dr. Charles Zender
Department of Earth System Science, University of California, Irvine

Teaching Assistant (Winter, 2008)

The Physical Environment, Dr. William S. Reeburgh
Department of Earth System Science, University of California, Irvine

PROFESSIONAL EXPERIENCE

Credit Associate, Union Bank of California (1997–1998)

Conducted underwriting of small business loans

Programmer, Southern Pacific Bank (1998–2002)
Designed, built and supported company-wide intranet
Supported company-wide accounting system
Built various database intensive applications

Programmer, The Impac Companies (2002–2004)
Maintained and enhanced company-wide accounting system
Assisted in the creation of a loan servicing and origination package
Database administration

MANUSCRIPTS IN PRESS

1. Capps, S. B., and C. S. Zender (2008), Observed and CAM3 GCM Sea Surface Wind Speed Distributions: Characterization, Comparison, and Bias Reduction, *In Press in J. Climate*. ([PDF](#))

EXTENDED ABSTRACTS

1. Capps, S. B. and C. S. Zender (2007), Using QuikSCAT-Derived Surface Winds and a GCM to Improve Predicted Wind Speed Variability and Ocean Surface Fluxes, *15th Conference on Air-Sea Interaction* Paper P1.13, August 20–23, Portland, OR. American Meteorological Society

OUTREACH

1. Capps, S. B. (2006): Why We Should Take Care of Our Planet. Presented by S. Capps to Hicks Canyon Elementary School, March 2006.
2. Capps, S. B. (2007): Weather and Climate. Presented by S. Capps to Prado View Elementary School, May 2007.
3. Capps, S. B. and M. Tosca (2007): Southern California Weather and Water Sources. Presented by S. Capps and M. Tosca to Hicks Canyon Elementary School, November 2007.
4. Capps, S. B. and M. Tosca (2008): Southern California Weather. Presented by S. Capps and M. Tosca to Stone Creek Elementary School, February 2008.
5. Capps, S. B. and M. Tosca (2008): Climate Change and California. Presented by S. Capps, M. Tosca and F. Hopkins at the OCWD Children's Water Education Festival
6. Capps, S. B. and M. Tosca (2008): The Science of Climate Change. Presented by S. Capps, F. Hopkins, M. Anderson and J. Madero to Venado Middle School, March 2008.

INVITED PRESENTATIONS AT PROFESSIONAL MEETINGS AND WORKSHOPS

1. Capps, S. B. and C. S. Zender (2007), Comparing CAM3 Surface Winds With Observed 10-m Surface Winds (SeaWinds). Presented by S. Capps to the Atmospheric Model Working Group meeting at the National Center for Atmospheric Research, Boulder, CO, January 29–31, 2007. ([PDF](#))
2. Capps, S. B. and C. S. Zender (2007), Using QuikSCAT-Derived Surface Winds and a GCM to Improve Predicted Wind Speed Variability and Ocean Surface Fluxes. Poster Presented by S. Capps at the American Meteorological Society 15th Conference on Air-Sea Interaction, Portland, OR, August 20–23, 2007.
3. Capps, S. B. and C. S. Zender (2008), Using QuikSCAT Surface Wind Measurements to Understand Wind Speed Variability and Surface Flux Implications. Poster Presented by S. Capps at the American Society of Limnology and Oceanography 2008 Ocean Sciences Meeting, Orlando, FL, March 2–7, 2008.

MEMBERSHIPS

1. American Meteorological Society (AMS), 2005–present.
2. American Geophysical Union (AGU), 2004–present.