

Sam Ng

Metropolitan State College of Denver • Department of Earth and Atmospheric Sciences • P.O. Box 173362, Box 22 Denver, CO 80217 • (303) 556-8399

Education

- Ph.D., Meteorology – Saint Louis University, July 2005
Dissertation Title: *Development of a Dynamical Conceptual Model of Processes Producing Heavy Banded Snowfall Utilizing Numerical Simulation*
- M.S., Atmospheric Science – Texas Tech University, August 2001
Thesis Title: *Case Study of the Relevant Synoptic Forcing Mechanisms in the 24-25 January 2000 East Coast Snowstorm*
- B.S., Meteorology – Millersville University of Pennsylvania, May 1998

Relevant Experience

- **Assistant Professor**
Metropolitan State College of Denver (2006 – present)
 - Similar tasks performed as a Visiting Assistant Professor
 - Aided in managing the meteorology department webpage
 - Started the ground work for running a regional Weather Research and Forecasting (WRF) model
 - Residing local manager for the Weather Challenge forecasting contest
 - Arranged for guest speakers for special class topics and the local chapter of the American Meteorological Society
- **Visiting Assistant Professor**
Metropolitan State College of Denver (2005 – 2006)
 - Taught various meteorology classes ranging from freshman to senior level
 - Assisted in the maintenance of the weather lab
 - Mentored and advised undergraduates
- **Bow Echo and MCV Experiment (BAMEX) Project**
Saint Louis University (Summer 2003)
 - Assisted in nowcasting mesoscale convective systems
- **Research Assistant**
Saint Louis University (2001 – 2005)
 - Taught mentor's undergraduate classes during his academic absences to Boulder, CO and various conferences
 - Served as a liaison to the local forecast office in data acquisition for case studies
 - Managed and maintained the Cooperative Institute for Precipitation Systems webpage
- **Experiment for Research and Observation of the Dryline Environment (ERODE) Project**
Texas Tech University (Spring and Summer 2001)
 - Collected meteorologically vital data using a mobile mesonet
 - Assisted in the forecasting portion of the project
- **Mesoscale Observations of Convective Initiation and Supercell Experiment (MOCISE) Project**
Texas Tech University (Spring 2000)
 - Collect meteorological data using a mobile mesonet
- **Wind Engineering Mobile Instrumented Tower Experiment (WEMITE) Project**
Texas Tech University (Fall 1999 and 2000)
 - Assisted in nowcasting for imminent land-falling hurricanes to ensure that WEMITE towers and mobile mesonets were strategically placed for the project

Training Courses

- National Weather Service Central Region Flash Flood Workshop at Goodland, KS (Spring 2007)
- Workshop on Forecast Verification Methods at Metropolitan State College of Denver, CO (Fall 2006)
- Weather Research and Forecasting (WRF) Model Tutorial at Boulder, CO (Summer 2004)
- COMET Mesoscale Analysis and Prediction (COMAP) Course at Boulder, CO (Summer 2002) – Attended as a student and as the teaching assistant to the primary instructor
- AMS short course in Quantitative Precipitation Forecasting and Quantitative Precipitation Estimation at Orlando, FL (Winter 2002)

Preprints and Presentations

- Moore, J.T., S. Ng, and C.E. Graves, 2005: The Role of Conveyor Belts in Organizing Processes Associated with Heavy Banded Snowfall, *21st Conference on Weather Analysis and Forecasting*, Washington, D.C., Amer. Meteor. Soc., 10A.1.
- Ng, S., J.T. Moore, and C.E. Graves, 2005: A Numerical Investigation of the Christmas Eve Snowstorm of 23-24 December 2002: The Spatial and Temporal Evolutions of the Mesoscale Processes. *40th Annual Meeting – Missouri Academy of Science*, Jefferson City, MO.
- Baxter, M.A., S. Ng, C.E. Graves, and J.T. Moore, 2004: Winter Storm Forecasting as a Two-Step Process: The 26-27 November 2001 Snowstorm. Preprint, *20th Conference on Weather Analysis and Forecasting*, Seattle, WA, Amer. Meteor. Soc., CD-ROM.
- Ng, S., C.E. Graves, J.T. Moore, and J.L. Smith, 2003: A Numerical Simulation of the 24-25 December 2002 Heavy Snowstorm in South-Central Missouri. *28th Annual Meeting – National Weather Association*, Jacksonville, FL.
- Moore, J.T., J.L. Smith, C.E. Graves, and S. Ng, 2003: A Diagnostic View of the 24-25 December 2002 Heavy Snowstorm in South-Central Missouri. *28th Annual Meeting – National Weather Association*, Jacksonville, FL.
- Ng, S., C.E. Graves, and J.T. Moore, 2003: Three-Dimensional Visualization of Processes Associated with a Heavy Snowfall Event. *3rd Annual Isentropic Conference*, Millersville, PA.
- Ng, S., J.T. Moore, and C.E. Graves, 2003: The Spectrum of Trough of Warm Air Aloft Structures within Various Extratropical Cyclones Associated with Heavy Snowfall. *123rd Annual Meeting – Nebraska Academy of Science*, Lincoln, NE (**Invited Talk**).
- Ng, S., C.E. Graves, and J.T. Moore, 2002: Three-Dimensional Visualization of Processes Associated with a Heavy Snowfall Event. *27th Annual Meeting – National Weather Association*, Fort Worth, TX.
- Moore, J.T., S. Ng, M.J. Singer, and C.E. Graves, 2002: Common Characteristics of Heavy Banded Snowfall Events. Preprints, *19th Conference on Weather Analysis and Forecasting*, San Antonio, TX, Amer. Meteor. Soc., 3-6.
- Ng, S., C.E. Graves, J.T. Moore, and J.L. Smith, 2003: A Diagnostic Study of a Heavy Banded Snow Event in the Upper Midwest. *38th Annual Meeting – Missouri Academy of Science*, Springfield, MO.
- Moore, J.T., C.E. Graves, and S. Ng, 2002: An Identification of Factors Discriminating Between Significant and Extreme Heavy Rainfall Events. Preprints, *16th Conference on Hydrology*, Orlando, FL, Amer. Meteor. Soc., 52-56.