

ANDREA SCHUMACHER

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- EDUCATION** **MASTER OF SCIENCE**, *Atmospheric Science*, Colorado State University, Fort Collins CO, May 2004.
Thesis: *A Closer Look at Vortical Hot Towers Within a Tropical Cyclogenesis Environment*
- BACHELOR OF ARTS**, *Mathematics/Chemistry*, New College of Florida, Sarasota FL, May 2000.
- PROFESSIONAL EXPERIENCE** **RESEARCH ASSOCIATE**, Cooperative Institute for Research in the Atmosphere (CIRA), Fort Collins, CO, 7/8/06 – present. Current project: The Tropical Cyclone Formation Probability product, which provides objective, real-time probabilities of TC formation using Global Forecasting System data and GOES-E satellite data. I am currently working to improve the existing GOES-E product extending the product domain to include the Central and Western Pacific TC basins.
- BOOK KEEPER / SMALL BUSINESS ASSISTANT**, Cyber Service Inc., Computer Support Service, Loveland, CO, 1/06 – 7/06.
- SMALL BUSINESS OWNER & MANAGER**, Colorado Critter Care LLC, Professional Pet sitting Service, Fort Collins CO. Independent Contractor Pet Sitter 10/04 – 4/05. Owner/Manager 4/05-12/05.
- GRADUATE RESEARCH ASSISTANT (GRA)**, Colorado State University Dept. of Atmospheric Science, Fort Collins CO, 7/01 – 10/04. 7/01-5/04, GRA in the hurricane dynamics research group under Dr. Michael T. Montgomery. 5/04-10/04, GRA in the radar meteorology research group under Dr. Steven Rutledge.
- VOLUNTEER & TRAVEL EXPERIENCE** **VOLUNTEER MATHEMATICS TUTOR**, Community Math Clinic, Sarasota, FL, 1998-1999.
Co-organized and tutored at a free community math clinic held weekly at Sarasota Public Library.
- FIELD PROJECT PARTICIPANT**, The North American Monsoon Experiment (NAME), Mazatlan, Mexico, July 2004. The North American Monsoon provides many Mexican states with up to 70% or their annual precipitation each year. The goal of this experiment was to study the monsoon system in order to better understand and predict its onset and duration. I collected atmospheric sounding data off the coast of Mazatlan, MX (spent 15 days aboard the Mexican Navy Vessel Altair launching radiosondes every 4-6 hrs) and performed shift work at the Mazatlan-area S-Pol radar site.
- INTER-DISCIPLINARY PURSUITS** **WOMEN IN SCIENCE: 2nd Annual Nebraska Conference for Undergraduate Women in Mathematics**, February 13th 2000, Lincoln, NE. Oral Presentation: “Representing Chemical Transformations with Transitional Labelings of Graphs”.
- HURRICANES & SOCIETY: 61st Interdepartmental Hurricane Conference**, March 6-9 2007, New Orleans, LA. Oral Presentation: “Operational Implementation of an Objective Annular Hurricane Index”, Poster Presentation: “A New Tropical Cyclone Formation Product: Operational Implementation for the Atlantic and Eastern Pacific in 2006 and Extension to the Western N. Pacific in 2007”.