

Samantha L. Chiu

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Education

2010–present M.S. Candidate at University of Illinois [Atmospheric Sciences]
Expected graduation: Summer 2013

2010 B.S. Saint Louis University, St. Louis, MO [Meteorology]
Minor in Mathematics

Professional Experience

2010-present University of Illinois, Department of Atmospheric Science,
Convective Modeling Group, Research Assistant

- Simulate atmospheric conditions on variety of scales
- Use of several supercomputing resources
- Analysis of large data sets using Fortran, shell scripting, NCAR RIP, and Vis5d

2009 Southwest Airlines, Headquarters, Meteorology Intern

- Analyzed large volumes of time-sensitive data
- Prepared presentations to be included in daily strategy meetings
- Organized and presented preliminary data analysis findings in preparation for larger strategy meetings

2008-2010 National Geospatial-Intelligence Agency, Precision Engagement
and Targeting Division, Intelligence Analyst

- Created multimedia presentations to be included in high level security briefings
- Coordinated imagery requests between domestic agency assets and customers in theater abroad

Education Experience/Scholastic Outreach

2012 University of Illinois, Department of Atmospheric Science, Teaching
Assistant [Introduction to Meteorology]

- Led exam review sessions and weekly lab exercises
- Created weekly lectures from existing lesson plan
- Coordinated grades with course instructor

2012 Kingston Elementary, Classroom visits for Meteorology themed lessons

- Led interactive classroom discussion (Grades 3-8)
- Created lesson plans and activities
- Created multimedia presentation for upper level students

2012 Science Olympiad, State Remote Sensing Event, Event
Supervisor/Coordinator

- Created and administered event exam

- Coordinated event execution
- 2011 Science Olympiad, State Remote Sensing Event, Event Supervisor/Coordinator
 - Assisted in creation of event exam
 - Coordinated event execution
- 2010 Missouri Scholars Academy, Resident Assistant/Personal & Social Dynamics Group Leader
 - Facilitated group activities and discussion for 20 gifted high school students
 - Created lesson plans and activities
 - Adapted existing lesson plans to fit group needs

Professional Presentations

- 2012 Oral presentation given at Conference on Severe Local Storms [Nashville, TN]
“Mesoscale and Stormscale Ingredients of Tornadic Supercells Producing Long-Track Tornadoes in the 2011 Alabama Super Outbreak”
- 2011 Poster presented at Mesoscale Processes Conference [Los Angeles, CA]
“The 2010 Mississippi Valley Tornado Outbreak – a Mesoscale and Stormscale Perspective”
- 2011 Poster presented at Severe Storms and Doppler Radar Conference [Ankeny, IA]
“Numerical Simulations of a Tornadic Supercell – the Yazoo City Storm”
- 2011 Poster presented at University of Illinois School of Earth, Society and the Environment Research Review [Urbana, IL]
“Numerical Simulations of a Tornadic Supercell – the Yazoo City Storm”
- 2011 Poster presented at WRF Model User’s Workshop [Boulder, CO]
“Evaluating WRF Simulations of the 24-25 April 2010 Tornadic Outbreak”