

# J. MICHAEL BATTALIO

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## EDUCATION

**Master of Science in Meteorology.** Mississippi State University, Starkville, MS, Spring 2012. GPA: 4.0  
*Relevant Coursework:* Tropical Meteorology, Research Methods, Intro to Probability, Visualization and Geoscience Data, Forecasting Severe Local Storms, Geologic Literature, Advanced Hazards and Disasters, Incompressible Viscous Laminar Flow, Methods of Theoretical Physics, Computational Physics

*Thesis topic:* Three-Dimensional Analysis of NWP Model Fields using a Quasi-Geostrophic System of Equations to Enhance Model Diagnostics

**Bachelor of Science in Physics and Bachelor of Science in Meteorology** with minors in Mathematics, Music, and Communication. Mississippi State University, Starkville, MS. Spring 2010. GPA: 3.97/4.0.

## FELLOWSHIPS/SCHOLARSHIPS

**Graduate:** American Meteorological Society 21st Century Fellowship, Mississippi State Department of Geosciences Assistantship, Mississippi State Department of Bands Assistantship

**Undergraduate:** National Science Foundation S-STEM Fellow, Guillermo Salazar Rodriguez Scholarship, George Kappler Endowed Scholarship, Gulmon Memorial Scholarship, Walton Family Foundation Scholarship, Presidential Freedom Scholarship, Marching/Concert Band Scholarship

## EXPERIENCE

**Teaching Assistant.** Mississippi State University Department of Geosciences, Starkville, MS. Fall 2010 – present.

- Substitute teacher for Atmospheric Dynamics I & II
- TA for Forecasting Severe Local Storms class (GR 4842/6842)
- TA for Principles of GIS (GR 4303/6303)
- Give quizzes and maintain grades/attendance for Introduction to Geography (GR 1123)

**Lab Assistant.** Department of Education, Teacher Academy for the Natural Sciences. 2010-2011.

- Plan and teach daily labs for Middle School Teachers
- Program and administer TANS website

**Teaching Assistant.** Mississippi State University Department of Physics, Starkville, MS. Spring 2010.

- Teach Physical Science Lab (PH 1011)

**Research Assistant.** Engineer Research and Development Center, Environmental Lab, Vicksburg, MS. Summers 2004 – 2010; winters 2005 – 2009.

- Analyzing bat migration and climate data for military installations in Mississippi
- Analyzing climate, stream flow, and pollution data for Ft. Benning reclamation project

## PUBLICATIONS

- “*Quantitative Analysis and 3D Visualization of NWP Data Using Quasi-Geostrophic Equations*” 28th Conference on Interactive Information Processing Systems American Meteorological Society Annual Meeting, New Orleans, LA, Jan 2012.
- “*Visualization of Vorticity and Divergence in Three Dimensions*” National Weather Association Conference, Birmingham, AL Oct. 2011.
- “*Improved Vorticity Visualization*” Poster at 9th Annual Graduate Symposium, Mississippi State University, 2011.

## ACTIVITIES AND AWARDS

Mississippi State University Society of Scholars, American Meteorological Society, Webmaster for East Mississippi Chapter of the NWA/AMS, Phi Kappa Phi Honor Society, Head Drum Major and Saxophonist for the MSU Famous Maroon Band, Society of Physics Students, First Cellist Mississippi Symphony Orchestra, McGraw-Hill MSU Speech Competition Finalist, MSU String Studio and MSU Piano Studio