

# CURRICULUM VITAE

January 2021

## Andrew Michael Thomas

190 Baxter Drive, Apt 218

Athens, GA 30606

Phone: (570) 856-2292

Email: amt59022@uga.edu

### EDUCATION

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<b>Doctor of Philosophy, Geography,</b> <i>University of Georgia, Athens, GA</i>	May 2021 (Expected)
<b>Master of Science, Meteorology</b> <i>Pennsylvania State University, State College, PA</i>	December 2018
<b>Bachelor of Science, Meteorology</b> Mathematics Minor <i>Pennsylvania State University, State College, PA</i>	May 2015

### PRIMARY RESEARCH AREAS

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Numerical Weather Prediction

Tropical Cyclones

Land-Atmosphere Interactions and Micrometeorology

Air Quality

### ACADEMIC APPOINTMENTS

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<b>Graduate Teaching/Research Assistant</b> <i>Pennsylvania State University, State College, PA</i>	Fall 2015 – Fall 2017
<b>Instructor</b> <i>Pennsylvania State University, State College, PA</i>	Spring 2017
<b>Graduate Teaching/Research Assistant</b> <i>Pennsylvania State University, State College, PA</i>	Summer 2017 – Fall 2017
<b>Graduate Research Assistant</b> <i>University of Georgia, Athens, GA</i>	Spring 2018 – Fall 2019
<b>Graduate Teaching Assistant (Instructor of Record)</b> <i>University of Georgia, Athens, GA</i>	Spring 2020
<b>Graduate Research Assistant</b> <i>University of Georgia, Athens, GA</i>	Summer 2020 – Present

## **COURSES TAUGHT OR ASSISTED**

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<b>COURSE NUMBER</b>	<b>UNIVERSITY</b>	<b>NAME</b>
METEO 215	Pennsylvania State University	Weather Forecast Preparation Laboratory
METEO 411	Pennsylvania State University	Synoptic Meteorology Laboratory
METEO 415	Pennsylvania State University	Forecasting Practicum
METEO 473	Pennsylvania State University	Application of Computers to Meteorology
GEOG 1112L	University of Georgia	Introduction to Weather and Climate Laboratory

## **PUBLICATIONS**

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**Thomas, A. M.**, A. K. Huff, X. Hu, and F. Zhang, 2019: Quantifying Uncertainties of Ground-Level Ozone within WRF-Chem Simulations in the Mid-Atlantic Region of the United States as a Response to Variability. *J. Adv. Model. Earth Syst.*, 2018MS001457, doi:10.1029/2018MS001457. <https://onlinelibrary.wiley.com/doi/abs/10.1029/2018MS001457>.

Yoo, J., J. A. Santanello, M. Shepherd, S. Kumar, P. Lawston, and **A. M. Thomas**, 2020: Quantification of the Land Surface and Brown Ocean Influence on Tropical Cyclone Intensification over Land. *J. Hydrometeor.*, 21, 1171–1192, <https://doi.org/10.1175/JHM-D-19-0214.1>.

## **IN PREPARATION, SUBMITTED AND IN REVISION**

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(submitted) **Thomas, A. M.**, J.M. Shepherd, J.A. Santanello, 2021: The Influence of Soil Moisture and Surface Roughness on an Idealized Tropical Cyclone. Submitted to *Journal of Geophysical Research: Atmospheres*. Preprint of prior submission: <https://www.essoar.org/doi/pdf/10.1002/essoar.10503403.1>

(in preparation) **Thomas, A.M.**, J.M. Shepherd, J.A. Santanello, 2021: Application of Current Hurricane Intensity Theories to the Brown Ocean Effect.

(in preparation) **Thomas, A.M.**, J.M. Shepherd, 2021: A Climatological Analysis of Inland Tropical Cyclone and Maintenance Events.

## **CONFERENCE PRESENTATIONS**

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\*The underlined denotes presenter

**Thomas, A. M.**, J.M. Shepherd, J.A. Santanello, 2019: Analysis of the Land–Atmosphere Environment of Cyclone Kelvin over Northern Australia: A Possible "Brown Ocean" Case. Poster Presentation. 99th Annual Meeting of the American Meteorological Society. <https://ams.confex.com/ams/2019Annual/meetingapp.cgi/Paper/352286>

**Thomas, A.M.**, J.A. Santanello, J.M. Shepherd, 2020: Idealized Simulations of the Brown Ocean Effect—Sensitivity to Land Use and Soil Moisture Availability. Poster Presentation. 100th Annual Meeting of the American Meteorological Society. <https://ams.confex.com/ams/2020Annual/meetingapp.cgi/Paper/362822>

Yoo J., J.A. Santanello, J.M. Shepherd, S.V. Kumar, P. Lawston, **A.M. Thomas**, 2020: Quantification of the Land Surface and Brown Ocean Influence on Tropical Cyclone Intensification over Land: A Case Study of TC Kelvin (2018). Oral Presentation. 100th Annual Meeting of the American Meteorological Society. <https://ams.confex.com/ams/2020Annual/meetingapp.cgi/Paper/368454>

Yoo, J., J.A. Santanello Jr, J.M. Shepherd, S.V. Kumar, P.L. Parker, **A.M. Thomas**, 2020: Land-Atmosphere Interactions in the Tropical Cyclone Maintenance or Intensification (TCMI) of TS Bill (2015). Oral Presentation. AGU Fall Meeting. <https://agu.confex.com/agu/fm20/webprogram/Paper707311.html>

### **UPCOMING CONFERENCE PRESENTATIONS**

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Annual Meeting of the American Association of Geographers. April 2021. Virtual Format.

34th Conference on Hurricanes and Tropical Meteorology. May 2021. Virtual Format

(Invited presentation) Fuqing Zhang Memorial Symposium. June 2021. State College, PA/Virtual Format

### **PUBLIC SERVICE**

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2020 – Current      NASA's Goddard Earth Sciences Data and Information Services Center (GES DISC) User's Working Group

### **AWARDS**

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2015                      ZedX Weather Information and Technology Award

### **PROFESSIONAL SOCIETY MEMBERSHIP**

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Chi Epsilon Pi

American Meteorological Society

American Association of Geographers