

*Curriculum Vitae*

**RICARDO C. NOGUEIRA**

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**EDUCATION**

**LOUISIANA STATE UNIVERSITY, BATON ROUGE, LA** **2009**

*PhD in Geography*

Dissertation topic: Atlantic Tropical Cyclone: Climatology and the Contribution to Monthly and Seasonal Rainfall in the Eastern U.S. 1960-2007.

**WESTERN MICHIGAN UNIVERSITY, KALAMAZOO, MI** **2005**

*Master degree in Geography,*

Thesis topic: Applications of Integrated Data Viewer-IDV in an Introductory Meteorology Class for Non-Science Majors.

**FEDERAL UNIVERSITY OF PELOTAS, BRAZIL** **1986**

*Bachelor in Meteorology*

**EXPERIENCE**

**Teaching Experience**

**GEORGIA STATE UNIVERSITY** **2012-Present**

- GEOG 1112- Introduction to Weather and Climate
- GEOG 1113- Introduction to Landforms
- GEOG 4642 – Advance Weather and Climate

**WESTERN MICHIGAN UNIVERSITY** **2012**

- Teaching Spring 2012 GEOG 1050- Physical Geography

**UNIVERSITY OF NORTH ALABAMA** **2010 – 2011**

- Taught Fall 2010 and Spring 2011 (2 sessions) of GE111 – Physical Geography – Atmosphere
- Taught Fall 2010 GE112 – Physical Geography, Landscapes
- Taught Fall 2010 GE330 – Meteorology
- Taught Fall 2010 GE497 – Environmental Geography (Applied Climatology – New class developed)
- Taught Spring 2011 GE225 – Maps and Map Interpretation
- Taught Spring 2011 GE331– Climatology

**LOUISIANA STATE UNIVERSITY** **2005 – 2009**

- Taught summer session 2008 of GEOG 2050 –Atmosphere.
- Taught Spring 2009 GEOG 2050- Atmosphere
- Taught Spring 2009 GEOG 2051- Physical Geography, Land and Water Surfaces.
- TA in the introductory meteorology class (GEOG 2050 – Dr. Keim, Dr. McHugh, Dr. Brown, and Dr. Grymes), with several lectures as a substitute professor.

**WESTERN MICHIGAN UNIVERSITY****2003-2005**

- Worked as a TA for Dr. Elem Cutrim, in an introductory meteorology class, with several lectures as a substitute professor.
- Ten minutes' weather presentation at the beginning of the class using Integrated Data Viewer (IDV) and real-time data, linking weather with lecture topic.
- Lab instructor.
- Created lab exercises where students can use real-time data and meteorological computer models in 3D instead still 2D book images.

**COLEGIO ESTADUAL GONCALVES DIAS, BRAZIL (HIGH SCHOOL)****1989 – 1991**

- Taught classes of principles of physics dynamic.
- Organized scientific rallies to stimulate and improve learning.

**Professional Experience****MULTI-DECADAL TRENDS IN CROP DISEASE RISK: IMPLICATIONS FOR REGIONAL FORECASTING - USDA RAMP GRANT****2011-2012*****Researcher Associate***

- Analysis of multi-decadal climate trends integrate with crop disease risk decision.
- Impact of Tropical Cyclones in Potato disease.

**LOUISIANA STATE UNIVERSITY HAZARD MITIGATION PLAN****2009-2010*****Researcher Associate***

- Identify natural hazards risk on Louisiana State University Campus.
- Create GIS maps of the natural extreme weather events
- Coauthor of the LSU mitigation plan.

**THE WEATHER CHANNEL LATIN AMERICA, ATLANTA, GEORGIA****1997-2002*****Weather Anchor and Television Producer***

- Produced, prepared and presented 5 weather segments daily. Researched information, gathered footage and created special graphics to enhance and support presentation. Wrote the scripts for the shows and edited the packages.
- Trained all 5 Brazilian anchors on-camera and off camera how to check the meteorological data, create and use special graphics.
- Selected by Programming Manager to control on air quality for Brazilians anchors. Checking weather and news information, body language, graphics and right speech.
- Created, produced and presented a weekly weather educational feature, "Meteorologia de A a Z", resulting in a positive feedback from the viewers.

**RURAL CHANNEL, SAO PAULO, BRAZIL****1996 - 1997*****Weather Anchor***

- Created, produced and delivered 11 daily live shows.
- Designed graphics for initial show.

**INFRAERO (The Brazilian Airport Infrastructure Company) Guarulhos, SP****1992 - 1997*****Meteorologist specialized in weather aviation***

- Briefed aircrews and command personal on mission-specific meteorological conditions, including international flights.
- Managed 4 meteorologists' technicians responsible for preparing flight documentations, plotting wind and significant weather charts.

- Analyze available meteorological data, including locally –and centrally-produced graphical and numerical products, to formulate 24-hour terminal and remote weather forecaster for 3 states.
  - Formulate and issued weather vigilance warnings for Sao Paulo state (SIGMET, GAMET, AIRMET and AIREP).

## FRUIT GROWERS OF FRAIBURGO ASSOCIATION (AFF), BRAZIL

1986 – 1991

### *Chief Meteorologist*

- 5 years as expert in artificial weather modification. Managed 28 technical agents
- Created procedures to optimized decision time in severe weather by using anti-hail rocket technology, resulting in the reduced threat of hail to apple crops and savings to growers (\$4 Million).
- Recognized by Russian developers of system as on-site expert in anti-hail technology.

## PUBLICATIONS

**Book:** R, Nogueira. Weather, Climate, and Beyond: An introduction to Physical Geography. TopHat - ISBN 978-1-77330-408-3.

R.Nogueira, B.D.Keim, D.P. Brown, and K. D. Robbins, 2012 . *Variability of rainfall from tropical cyclones in the eastern United States and its association to the AMO and ENSO*. Theoretical and Applied Climatology. Doi: 10.1007/s00704-012-0722-y

R.Nogueira, B.D.Keim . *Contributions of Atlantic tropical cyclones to monthly and seasonal rainfall in the eastern United States 1960-2007*. Theoretical and Applied Climatology. Vol. 103, Issue 1-2, pp. 213-227.

R.Nogueira, B.D.Keim . *Annual Volume and Area Variations in Tropical Cyclone Rainfall over the Eastern United States*. Journal of Climate, 23, 4363–4374.

R. Nogueira, E. M. Cutrim. *Applications of "Integrated Data Viewer" (IDV) in the classroom*. Advances in Geosciences, Vol. 8, pp 63-67.

E. M. Cutrim, D. Rudge, K. Kits, J. Mitchell, R. Nogueira. *Changing teaching techniques and adapting new technologies to improve student learning in an introductory meteorology and climate course*. Advances in Geosciences, Vol. 8, pp 11-18.

## PRESENTATIONS

### *Conference Papers and Abstracts*

- Engage 2017: The Conference for Higher Education Innovators. October 26–27, 2018 Chicago, Illinois
- Conference of Scholarly Teaching, May 11, 2018, Atlanta GA–Participation
- AAG 2018 Annual Meeting, March 29-April 02, 2018 – New Orleans, LA. Participation
- AAG 2017 Annual Meeting, March 29-April 02, 2017 – Boston, MA. Participation
- AAG 2016 Annual Meeting, March 29-April 02, 2016 – San Francisco, CA. Participation
- AAG 2015 Annual Meeting, April 21-25, 2015 – Chicago, IL. participation
- **Nogueira, R.** (presenter), Keim, B, Billiot, A. Influences of Natural Climate Variability on Tropical Cyclones Characteristics. AAG 2014 Annual Meeting, April 21-25, 2014 – Tampa, FL.
- **Nogueira, R.** (presenter), Backer, K. Tropical Cyclone Events and Late Season Disease Risk Triggers: The Case of Late Blight in the Eastern US. AAG 2013 Annual Meeting, April 09-13, 2013 – Los Angeles, CA.

- Backer, K. (presenter), **Nogueira, R.** Climate Variability and the Daily Agroecosystem Forecasting Accuracy Plateau. The first International conference on Agro-Geoinformatics, 2-4 August 2012, Shanghai, China.
- **Nogueira, R.** (presenter), Bondalapati, K., Backer, B. Climate Variability and Deoxynivalenol in U.S. Barley. AAG 2012 Annual Meeting, February 24-28, 2012 – New York, NY
- **Nogueira, R.** (presenter), Keim, B. Which Hurricanes Produced The Most Rain Over The Eastern United States? Interactions between Rainfall Volume, Area, and Storm Forward Velocity. AAG 2011 Annual Meeting, April 11-16, 2011 – Seattle, WA
- **Nogueira, R.** (presenter), Keim, B. Variability of Rainfall from Tropical Cyclones in the Eastern United States and its Relation to AMO and ENSO. AAG 2010 Annual Meeting, April 14-18, 2010 – Washington, DC.
- **Nogueira, R.** (presenter), Keim, B. Characteristics of Tropical Cyclone Rainfall over the Eastern United States-1960-2007. AAG 2009 Annual Meeting, March 22-27, 2009 – Las Vegas, NV.
- **Nogueira, R.** (presenter). Atlantic Tropical Cyclone Contribution to Seasonal and Monthly Precipitation in the United States - 1991-2000. AAG 2008 Annual Meeting, April 15-19, 2008 -- Boston, MA.
- **Nogueira, R.** (presenter). A Look into Katrina's Eye. 22<sup>nd</sup> Annual Louisiana Remote Sensing and GIS Workshop, 2005. SESSION 6 - Student Papers in Remote Sensing, LSU Department of Geography and Anthropology.
- **Nogueira, R.** (presenter) and Cutrim, E. Applications of "Integrated Data Viewer" (IDV) in the Classroom. EGU 2005 Conference, Vienna, Austria - Educational Symposia, session "Earth System Science Data Access, Distribution and Use for Education and Research".
- Cutrim, E. C. (presenter), Mitchell, J. S., Kits, K., and **Nogueira, R.** Enhancing Student Learning of Meteorology with Computer-Aided Interactive Technologies. Michigan Science Teaching Association – March 2005, Detroit, MI
- Cutrim, E. C. (presenter), K. Kits, J. Mitchell, and **R. Nogueira.** Changing Teaching Techniques and Adapting New Technologies to Improve Student Learning in an Introductory Meteorology and Climate Course. EGU 2005 Conference, Vienna, Austria - Educational Symposia, session "Earth System Science Data Access, Distribution and Use for Education and Research".
- **Nogueira, R.** (presenter) and Cutrim, E. Visualização de Ciclones Extratropicais Utilizando IDV – Visualizador de dados Integrados. Brazilian Meteorological Congress (XIII CBMET)- Fortaleza, Brazil\_2004.
- Cutrim, E.(presenter), **Nogueira, R.**, Kimosop, P., Jayaraman, K. Using IDV to Teach Meteorology to Non-science Majors Unidata IDV Workshop –Millersville, PN, 2004.
- Cutrim, E. C., Mitchell, J. S., and **Nogueira, R.** Teaching of Meteorology to Non- Science Majors using Real-Time DataStream, Integrated Data Viewer and Interactive Technologies 6th International Conference on Computer-Aided Learning (CAL) and Distance Learning in Meteorology-CALMET 2004.
- Cutrim, E. C.(presenter), Mitchell, J. S., Kits, K., and **Nogueira, R.** Enhancing Student Learning of Meteorology with Computer-Aided Interactive Technologies. Colloquium at Geography Department, Western Michigan University-2004

### ***Workshop Presented***

#### ***Introduction to Integrated Data Viewer (IDV)***

- UNIDATA, Boulder, Colorado, July 2006
- INPE, Sao Jose dos Campus, Brazil. August 2004
- Federal University of Rio de Janeiro, Brazil, August 2004

- FUNCEME, Fortaleza, Brazil, September 2004
- XIII CBMET, Fortaleza, Brazil, September 2004

### **HONORS**

- 2005 Department of Geography, Western Michigan University at Kalamazoo, outstanding graduate Student Award.
- 2004 The Michigan Science Teachers Association, Member in Good Standing
- Louisiana State University, Baton Rouge, LA. Geography and Anthropology scholarship
- Louisiana State University, Baton Rouge, LA. Graduate School Supplement Award.
- Western Michigan University, Kalamazoo, MI. Geography department scholarship.
- Operational Aeronautic Meteorology - Analysis and decoding all meteorological data, analysis and forecasting using numerical methods, at Porto Alegre International airport, Brazil
- 1986 Meteorological Radar - Techniques concerning rain detection, assessment, processing and observation and usage analysis, at University of Sao Paulo State (UNESP), Bauru, Brazil.
- 1985 Scientific Programmer in FORTRAM, at Federal University of Pelotas, Brazil.
- 1983 Scholarship - “An Observational Study of Obstruction Systems above the Pacific Ocean, South America and Atlantic Ocean”, with Dr. Casarin at Federal University of Pelotas, Brazil

### **STUDENT ORGANIZATION**

- Brazilian Student Association –President (2005-2006)
- Geography and Anthropology Society –Vice-President (2006-2007)

### **CERTIFICATION**

- Top Hat Level 1 Certification

### **LANGUAGE**

- Portuguese: native language
- English: excellent comprehension, speaking, reading, and writing
- Spanish: good comprehension, speaking, reading, and writing
- Italian: fair reading

### **COMPUTER SKILLS**

- ERDAS Imagine
- ESRI ArcMap
- Integrated Data Viewer (IDV)