

Igor Oliveira

Research Scientist - Meteorologist

IBM Research | Brazil

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Introduction

I am a meteorologist currently working as a Research Scientist in IBM Research Brazil. My entire career has been defined by a mix of the business, research and operational sides of meteorology. I have experience in applying weather/climate modeling tools for forecasting, research and coupled applications. My latest interests include the use of machine learning techniques for weather/climate forecasting, big data analysis and its applications to environmental topics such as sustainable agriculture and renewable energy.

As one of the few meteorologists who worked on IBM before the acquisition of The Weather Company, I have had the chance to support TWC initial operations in Brazil and have gained a deep knowledge of the current Weather market locally and abroad. I have been including TWC in my career progression plans since the acquisition. Now, I am looking for new opportunities to contribute to this growing and exciting business unit within IBM.

IBM Profile

Research Scientist, IBM Research; São Paulo, Brasil - 2013-Present

Research Topics: Environmental Modeling, Artificial Intelligence applications to Atmospheric Sciences, Agriculture, Data Visualization, Climate Change

Main Research Projects Collaborations:

- Deep Thunder - Rio de Janeiro Operations Center - Smarter Cities:
High Resolution Weather and Flooding Forecasting for the city of Rio de Janeiro
- Green Horizon:
Air Quality Forecasting for Beijing Metropolitan Area
- The Jefferson Project at Lake George
Monitoring and Modeling for Lake George, NY
- Unicef Weather Data
Weather Data for Zika Disease Modeling
- Eubra-Bigsea
Deep Thunder Modeling for EU-Brazil H2020 Project
- VELCO
Renewable Energy generation

Other:

- The Weather Company expansion in Brazil:
Support for TWC team in Brazil in Client Prospection, PoC development, Sales and Partnerships. Main clients & Partners: Azul (Airlines), Raizen (Biofuels), AES (Energy), Somar (Weather Partner), Record (Media)

- **IBM AgriTech, Digital Agriculture Platform:**

Technical Leader for Weather-Sensitive Solutions in AgriTech Initiative. Customizations of TWC solutions and API. Consulting for clients prospection in Agriculture (farmers, start-ups, etc

- Member of IBM Academy of Technology

- Member of IBM AOT Local Affiliate (TLC-BR)

- OTAA (Outstanding Achievement Award), Green Horizon Project, 2015

Patens & Publications: Full list on www.igoroliveira.org

Past Professional
Experience

Meteorology Manager, Simtech Rep; Rio de Janeiro, Brasil - 2012-2013

Business Development of the line of Environmental Products represented by Simtech within Brazil: Main Companies: Enterprise Electronics Corporation - EEC, Earth Networks, Weather Decision Technologies, Meteostar, Radiometrics

Head Meteorologist, Rio de Janeiro City Early Warning System - 2009-2012

Leading the team of forecasters for the City of Rio de Janeiro Early Warning System. Issuing of Severe Weather Alerts. Management of Rain-Gauge Network. Weather Radar Operation

Researcher, Climate Systems Analysis Group; Cape Town, South Africa - 2007-2009

Research on Climate-Vegetation Feedbacks in Southern Africa. IBM World Community Grid AfricanClimate@Home project. WRF model.

Lt Meteorologist, Brazilian Navy Hydrographic Service - 2005-2007

Weather Forecast for Brazilian Navy areas of responsibility:(Metarea V, Haiti (UN Minustah mission), Antartica, Worldwide. Numerical Prediction Division: Numerical Weather & Ocean models. Data assimilation. Post-Processing development.

Education

University of Cape Town, South Africa - Research Grant, 2009

University of São Paulo, Brazil - Msc. Atmospheric Sciences, 2006

Federal University of Rio de Janeiro, Brazil - Bsc. Meteorology, 2003

References

Jose Luis Spagnuolo - Director Technical Sales for The Weather Company

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Celso Ferraz do Amaral - Head of Strategy & Bus Dev - LATAM | The Weather Company

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