

Maximiliano Antonio Sacco

Curriculum Vitæ

March 2020

PERSONAL INFORMATION	<i>Addr:</i> Humberto 1° 253, piso 2 Dpto “27” <i>Birth date:</i> October 3rd 1975 <i>ID:</i> 24.963.183 <i>Nationality:</i> Argentine	Buenos Aires City <i>Cel:</i> (+5411) 6963-4299 <i>CUIT:</i> 20-24963183-4 <i>E-mail:</i> msacco@dc.uba.ar
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EDUCATION **PhD student** since December 2017 at Dep. of Atmosphere and Ocean Sciences, Faculty of Exact and Natural Sciences, University of Buenos Aires
Advisor: PhD Juan Ruiz, Centre for Sea and Atmospheric Research (CIMA/CONICET-UBA)
Researching: *Use of machine learning tools to estimate systematic error on numerical weather models in short term forecasting*

Degree on Computer Science in July 2009 at
Faculty of Exact and Natural Sciences - University of Buenos Aires
Thesis title: *FPGA implementation of ADM edge detection algorithm*

ACADEMIC **Teaching**

2015-2017 Graduated Teaching assistant on *Theory of the Communications* - Computer Science Department. FCEyN-UBA

2014-2015 Chief Teaching assistant on *Operative Systems* - Computer Science Department. FCEyN-UBA

Congresses Presentations

CongremetXII-2018 *Sacco M., Scheffler, G., Ruiz, J., Skabar, Y. Synthesis of weather radar images from satellite images using generative neural networks.*

CongremetXII-2018 *Garcia Skabar, Y., Matsudo, C., Hobouchian, M.P., Sacco M., Ruiz, J., Righetti, S. Implementation of the WRF model in high resolution at the National Meteorological Service.*

CongremetXII-2018 *Dillon M.E., García Skabar, Y., Ruiz, J., Nesbitt, S., Sacco M., et al. Design of a regional system for rapid data assimilation in Argentina.*

Publications

2019 *Gomez Mayol M., Vidal I., Salio P., Sacco M. On the use of lightning data as a proxy for radar reflectivity in the central region of Argentina Meteorologica*

2017 Hobouchian, M.P,Rugna M., Vidal L.,Matsudo C., Garcia Skabar Y. Vila D., Sacco M. *Use os Geostationary Satellite data for tracking an nowcasting of precipitation systems at the National Meteorological Service in Argentina.* Strengthening Disaster Risk Reduction across the Americas. 3-8,2017 Buenos Aires Argentina

2017 Gabriela Nicora, et al. *XIV Symposium on Lightning Protection* ISBN:978-1-5090-6052-8

International Meetings

MLSS-2018 June 18-30, Machine Learning Summer School, Universidad Torcuato Di Tella in Buenos Aires, Argentina

Khipu.2019 November 11-15, KHIPU - Latin American Meeting In Artificial Intelligence Montevideo, Uruguay

Research Internships

2020, ECOS A17A08 Bilateral collaboration project ECOS A17A08, a research stay was carried out at the ITM-Atlantique University in the city of Brest, France from January 11-25.

RECENT
PROJECTS AS
FREELANCE
INFORMATICS
CONSULTING

National Weather Service

since February 2015

Research & Development department

Job: Computer assistance for the optimization, parallelization and development of tools for atmospheric modeling and remote sensing data processing. Operational implementation in HPC of the products developed in-house. Computer reference of the research team.

October 2016 - March 2018 **Institution:** CITEDEF - Center for Scientific and Technical Research for Defense

Project: AeroRayos

Job: Participation in the development and implementation of an atmospheric electric field sensor. (Programming of embedded systems) - Design and development of a mobile application for electric discharge warning

Proyecto: UV.ar

Job: Mobile application for alerting, reporting and displaying UV-relative information.

February 2015 - January 2016

Project: Alert.ar

Institution: National Weather Service - INTA - CONICET

Job: Full design and implementation of mobile application for reporting and visualization of surface weather phenomena.