









# ESPADA GUERRERO | Ramiro Augusto

## Environmental Scientist

 20 march 1991.  Argentinian (born) and Italian  36.154.415  
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## EXPERIENCE

*Researcher (fellow)*

### National Atomic Energy Commission (CNEA)

 Feb 2016 - Feb 2019  Gral. Paz 1499, CABA, Argentina

**Area:** Atmospheric Chemistry Group

**Topic:** Aerosol dispersion models for evaluate the contribution to differents sources (natural and anthropogenic) to air quality.

Director: M Sc. Cristina Rössler

*Graduated teaching assistant*

### Faculty of Agriculture, University of Buenos Aires

 Jun 2014 - Feb 2019  Av. San Martín 4453, CABA, Argentina

**Physics Department. Subjects:** Applied Physics. Air Quality & Atmospheric Pollution.

## RESEARCH PROJECTS

*Prediction of Air Pollution in Latin America & the Caribbean (PAPILA)*

### EU, MSCA project (H2ozo)

 2018-2020

*Assessing Atmospheric Aerosol Components in Urban Areas to Improve Air Pollution and Climate Change Management*

### IAEA (ARCA CLIV)

 2018-2020

**Group of Atmospheric Chemistry, CNEA.**

Director: Lic. Laura E. Dawidowski

*Current and Emerging Challenges in the study of Atmospheric Aerosols and its Regional and Global Reach*

### MINCYT (PICT)

 2017-2020

**Group of Atmospheric Chemistry, CNEA.**

Director: Ing. Darío Gómez, Lic. Laura E. Dawidowski & Dra. Patricia N. Smichowski

## PRESENTATIONS

- Espada, R.A., Rössler, C., Pereira V., Dawidowski L.E., Gómez D.R. *Application of the BRAMS 5.2 Modeling system for the Metropolitan Area of Buenos Aires: a winter case study*. "2nd WCRP Summer School on Climate Model Development: Scale aware parameterization for representing sub-grid scale processes". CPTEC-INPE. Cachoeira Paulista, Brazil, February 2018.
- Espada, R.A., Gelman Constantin, J., Rössler, C., Dawidowski, L. & Gómez D. *Characterization of atmospheric aerosols with influence on glaciers of Cerro Tronador*. 12th International Congress of the Center for Earth Science (ICES), Mendoza, Argentina, November 2017.
- Santágota, D. Espada, R.A., Díaz Resquín, M., Rössler C., Solanes V., Sánchez Proaño P, Dawidowski L., Gómez D., Pochettino A., Coppari N., Iglesia M., Jensen, S. Colace S. *Evaluation of environmental costs asociated to thermal and nuclear energy generation*. XLVI Anual Meeting of the Argentinian Asociation of Nuclear Technology. Buenos Aires, Argentina, October 2017.
- Sainato, C.M., Espada, R.A., Losinno, B.N., Marquez Molina, J.J. Modeling of electromagnetic soundings to detect groundwater contamination by intensive livestock farming. 21st European Meeting of Environmental and Engineering Geophysics. Near Surface Geoscience 2015, 6-10 September, Turin, Italia.

## EDUCATION

*M.Sc. Numerical Simulation & Control*

### Faculty of Engineering, University of Buenos Aires

 Mar 2017 - today

**Orientation:** Numerical Simulation.

**In progress.**

**Approved subjects:** Numerical analysis, Functional analysis, Tensor calculus, Finite elements method, Matrix analysis, Non-linear continua, Neural networks.

*Lic. Environmental Sciences*

### Faculty of Agriculture, University of Buenos Aires

 Mar 2009 - 2016

**Finished.**

**Tesis topic:** Applied Geophysics.

## COURSES

- 2nd WCRP Summer School on Climate Model Development: (2018), CPTEC-INPE.
- SIMPACTS model for analyzing environmental impacts due electricity generation. (2017) IAEA.
- Air quality and atmospheric pollution. (2015), FAUBA, Prof. Marcelo G. Bormioli.

## SKILLS

**Programming:** Python R FORTRAN bash

Matlab Haskell **Data Base:** SQL GIS:

QGIS SAGA **Edition:**  $\LaTeX$

**O.S:** Linux (Ubuntu, Debian, CentOS)

## LANGUAGES

Spanish

English

Portuguese



## PUBLICATIONS

- Sainato, C.M., Losinno, B.N., Marquez Molina, J.J., Espada, R.A. Electromagnetic soundings to detect groundwater contamination produced by intensive livestock farming. Journal of Applied Geophysics. 2018.

- Sainato C., Losinno B.N., Lemeillet A.F., Espada R.A., Malleville H.J. Pagano E.A. Electrical resistivity tomography and electromagnetic soundings for exploration of glyphosate in soil and groundwater. 21st European Meeting of Environmental and Engineering Geophysics. Near Surface Geoscience 2015, 6-10 September, Turin, Italia.