



Valeria Paola MARDONEZ-BALDERRAMA

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LANGUAGES

Spanish (Mother language)
English (Level C1)
French (Level B2)
Portuguese (Level A2)
German (Level A1)

COMPETENCES

Word/ Excel/ Power point
Coding in R
EPA PMF
Mendeley
Statistical data analysis
Experience working with atmospheric monitoring instruments (CO analyzers, MAAP, CLAP, Aethalometers, Nephelometers, ACSM, O₃ Analyzers, MPSS, CPC)

EDUCATION

Master's degree in Physics

*Faculty of Pure and Natural Sciences, University Mayor de San Andrés (UMSA).
La Paz, Bolivia
2016-2019*

Bachelor's degree in Physics

*Faculty of Pure and Natural Sciences, University Mayor de San Andrés (UMSA).
La Paz, Bolivia
2016-2019*

PROFESSIONAL EXPERIENCE

Postdoctoral researcher

*Institute of Atmospheric Sciences and Climate (CNR-ISAC)
Bologna, Italy
August 2023 -present*

Doctoral Student

*Air Pollution in La Paz and El Alto, two high-altitude Bolivian cities
Institut des Géosciences de l'Environnement (IGE)
Université Grenoble Alpes (UGA)
Grenoble, France
2019-2023*

Associate Researcher at the Laboratory for Atmospheric Physics (LFA)

*Collaborated on the final stage of La Paz Experiment Campaign (Data analysis, instruments and stations maintenance) in collaboration with the Leibnitz Institute for Tropospheric Research (TROPOS) and the Institut de Recherche pour le Développement (IRD)
La Paz, Bolivia
November 2017 -September 2019*

Participated in the organization of the CORDEX Central America and South America Training: Workshop on Downscaling Techniques

*La Paz-Bolivia
June 2018*

Research Guest at Institute for Tropospheric Research (TROPOS).

*Worked on master thesis experiment: Enhancement of the particle light absorption due to coating of non-absorbing material.
Leipzig, Germany*

PUBLICATIONS

Sierra, J. P., Junquas, C., Espinoza, J. C., Segura, H., Condom, T., Andrade, M., Molina-Carpio, J., Ticona, L., **Mardoñez, V.**, Blacutt, L., Polcher, J., Rabatel, A., & Sicart, J. E. (2022). Deforestation impacts on Amazon-Andes hydroclimatic connectivity. *Climate Dynamics*, 58(9–10), 2609–2636. <https://doi.org/10.1007/s00382-021-06025-y>

Mardoñez, V., Pandolfi, M., Borlaza, L. J. S., Jaffrezo, J.-L., Alastuey, A., Besombes, J.-L., Moreno R., I., Perez, N., Močnik, G., Ginot, P., Krejci, R., Chrastny, V., Wiedensohler, A., Laj, P., Andrade, M., and Uzu, G: Source apportionment study on particulate air pollution in two high-altitude Bolivian cities: La Paz and El Alto, Atmos. Chem. Phys. Discuss. [preprint], <https://doi.org/10.5194/acp-2022-780>, in review, 2022. **(Under review)**

Moreno, C. I., Krejci, R., Jaffrezo, J.-L., Uzu, G., Alastuey, A., Andrade, M. F., **Mardoñez, V.**, Koenig, A. M., Aliaga, D., Mohr, C., Ticona, L., Velarde, F., Blacutt, L., Forno, R., Whiteman, D. N., Wiedensohler, A., Ginot, P., and Laj, P.: Tropical tropospheric aerosol sources and chemical composition observed at high-altitude in the Bolivian Andes, EGUsphere [preprint], <https://doi.org/10.5194/egusphere-2023-1298>, 2023. **(Under review)**

WORKSHOPS, COURSES AND CONFERENCES

Participated on the International Aerosol Conference (IAC)

Poster presentation: "PM₁₀ sources and their oxidative potential in two high altitude Bolivian cities"

Athens- Greece

September 2022

Participated on the European Geosciences Union (EGU) General Assembly

Oral presentation: "Sources of particulate air pollution in two high altitude Bolivian cities: La Paz and El Alto"

Vienna- Austria

May 2022

Participated on the V Training Course on Positive Matrix Factorization

Organized by the Institute of Environmental Assessment and Water Research (IDAEA)

Barcelona- Spain

February 2020

Participated on the European Research Course on Atmospheres (ERCA)

Grenoble-France

January 2020

Participated on the Sao Paulo School of Advanced Science on Atmospheric Aerosols

Poster presentation: "Enhancement of the particle light absorption due to coating of non-absorbing material"

Sao Paulo -Brazil

July 2019

Participated on the School of Atmospheric Measurements in Latin America and the Caribbean:
Atmospheric Particles and Reactive Gases

Poster presentation: "Enhancement of the particle light absorption due to coating of non-absorbing material"

San Juan – Puerto Rico

November 2018

Participated on the Latin American and Caribbean Aerosol Measurements School: from
measurements technologies to applications, focused on Black Carbon.

Oral and poster presentation: Correlation between CO and BC measurements in Chacaltaya GAW-Station.

La Paz-Bolivia

June 2015

Participated on the International School on Atmospheric Aerosol Physics, Measurement and
Sampling.

Lecturer: Prof. Dr. Alfred Wiedensohler (Leibniz Institute for Tropospheric Research, TROPOS, Germany).

La Paz-Bolivia

June 2013

Participated on the Course in Remote Sensing of Atmospheric Aerosols.

Lecturer: Dr. Daniel Pérez (Goddard Space Flight Center, NASA-USA).

La Paz-Bolivia

December 2012

Participated on the Atmospheric Chemistry Course.

Lecturer: Dr. Paolo Laj (IGE-Université Joseph Fourier, France).

La Paz-Bolivia

November 2012

Participated on the X Bolivian Course of Complex Systems (Acoustic Applications).

La Paz-Bolivia

October 2011

Participated on the Training Course on LIDAR Measurements in Latin America

La Paz-Bolivia

September 2011

Participated on the 6th Workshop on LIDAR Measurements in Latin America.

La Paz-Bolivia

September 2011