

Curriculum Vitae

Personal Information

Name: Villafañe, Roxana Noelia

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Education

2007 - 2012 Bachelor of Science in Chemistry (FaCENA - UNNE)

2013 - 2018 PhD in Natural Resources (FCA - UNNE)

Research Experience

2019 - 2021 PostDoc Position at Molecular Structure and Properties Lab (LEMYP)

Core skills

Data Analysis, Machine Learning, R Programming, Python Programming, Data Mining, Data Science, Multivariate Analysis.

Communities

2018 - Present *Lead and organizer of a R-Ladies Chapter* (Resistencia Corrientes). Also, I contribute with other R users communities remotely (Women in Machine Learning and Data Science Buenos Aires, R en Baires)

2018 - Present *Community translation of R for Data Science to Spanish* (Available at <https://es.r4ds.hadley.nz/>)

Talks

2017 IQUIBA-NEA. Machine learning introduction.

2018 R-Ladies Meetup Resistencia-Corrientes. R Programming from zero.

2018 R-Ladies Meetup Resistencia-Corrientes. Data Visualization with ggplot2.

2018. R-Ladies Meetup Resistencia-Corrientes. Data Manipulation with dplyr.

2019 IQUIBA-NEA. Machine learning for chemistry problems.

2019 R-Ladies Meetup Resistencia-Corrientes. Documentation with RMarkdown.

Publications

2019 Brown rice authenticity evaluation by spark discharge-laser-induced breakdown spectroscopy. Perez-Rodríguez, M., Dirchwolf, P., Silva, T.V., ***Villafañe, R.***, Gomes Neto, J.A., Pellerano, R.G., Ferreira, C.E.

Food Chemistry (Elsevier)

2017 Non-essential element concentrations in brown grain rice: Assessment by advanced data mining techniques.

Villafañe, R., Hidalgo, M., Piccoli, A., Marchevsky, E., Pellerano, R. Publicado en Environmental Science and Pollution Research (Springer)

2016 Tracing the geographical origin of Argentinean lemon juices based on trace element profiles using advanced chemometric techniques.

Gaiad, J., Hidalgo, M., **Villafañe, R.**, Marchevsky, E., Pellerano, R. Publicado en Microchemical Journal (Elsevier)

2015 Perfil mineral en los pastizales de *Andropogon lateralis* y *Sorghastrum setosum* (Graminae) en Corrientes, Argentina

Bernardis, A., **Villafañe, R.**, Pellerano, R., Marchevsky, E. Publicado en Revista de la Facultad de Ciencias Agrarias (UNCuyo)

2015 Toxic Trace Element Contents in Gluten-free Cereal Bars Marketed in Argentina. Hidalgo, M.; **Villafañe, R.**; Sgroppo, S., Marchevsky, E. Pellerano, R. Publicado en *International Journal of Celiac Disease* 3

Online Courses

Data Scientist with Python (DataCamp)

Data Scientist with R (DataCamp)

Deep Learning Specialization: Structuring Machine Learning Projects (Coursera)

Deep Learning Specialization: Improving Deep Neural Networks (Coursera)

Deep Learning Specialization: Neural Networks and Deep Learning (Coursera)

Machine Learning Specialization: Classification – University of Washington (Coursera)

Machine Learning Specialization: Regression - University of Washington (Coursera)

Machine Learning Specialization: Foundations - University of Washington (Coursera)

Python for Data Science and Machine Learning (Udemy)

Ensemble Machine Learning: Random Forest and Adaboost (Udemy)

Learning from data – California Institute of Technology – (edX)

Statistical Learning – Stanford University – (Stanford Lagunita)

SQL Bootcamp - (Udemy)

Advanced Data Mining with WEKA - University of Waikato (online)

More Data Mining with WEKA – University of Waikato (online)

Data Mining with WEKA - University of Waikato (online)