

# ROXANA NOELIA VILLAFañE



## EDUCATION

2018  
|  
2014

**PhD**  
FCA-UNNE

2012  
|  
2007

**Bsc Chemical Sciences**  
FaCENA-UNNE

## RESEARCH POSITION

2021  
|  
2019

**PostDoc Researcher**  
IQUIBA-NEA  
· Laboratorio de Estructura Molecular y Propiedades (LEMyP)  
· Topic: Machine Learning for new Cruzain inhibitors design

2018  
|  
2013

**Doctoral Researcher**  
FCA-UNNE  
· Laboratorio de Desarrollo e Investigacin en Quimiometra (LIDQ)  
· Topic: Chemometric techniques for geographical origin classification of native forages

## TEACHING EXPERIENCE

2020  
|  
2019

**Probabilty and Statistics**  
FCA-UNNE (Undergraduate Course)  
· Teaching Assistant

2014

**Physics II**  
FCA-UNNE (Undergraduate Course)  
· Teaching Assistant

## AWARDS AND FELLOWSHIPS

2021  
|  
2019

**PostDoc CONICET Fellowship**

2019

**Khipu 2019**  
Travel and Accomodation Grant

2018  
|  
2013

**Doctoral CONICET Fellowship**

2013

**Argentine Chemical Society**  
Diploma and medal delivered for "best academic average grade" of the Bachelor in Chemical Sciences (UNNE).

## PUBLICATIONS

2019

**Combining Charge Density Analysis with Machine Learning Tools To Investigate the Cruzain Inhibition Mechanism**  
ACS Omega - ACS Publications  
· <https://pubs.acs.org/doi/abs/10.1021/acsomega.9b01934>  
· doi: 0.1021/acsomega.9b01934

## CONTACT

✉ [noelia0618@gmail.com](mailto:noelia0618@gmail.com)

🐦 [twitter.com/data\\_datum](https://twitter.com/data_datum)

🐙 [github.com/data-datum](https://github.com/data-datum)

🔗 [Roxana Noelia Villafañe](#)

📠 [telegram.me/noelia0618](https://t.me/noelia0618)

📞 +54 03794 327730

Made w/ [pagedown](#) and [Nick Strayer](#) template

Source code:  
[github.com/data-datum/cv](https://github.com/data-datum/cv).

Last updated on 2020-01-29.

2019	<b>Brown rice authenticity evaluation by spark discharge-laser-induced breakdown spectroscopy</b> Food Chemistry - Elsevier <ul style="list-style-type: none"> <li>· <a href="https://www.sciencedirect.com/science/article/pii/S0308814619310623">https://www.sciencedirect.com/science/article/pii/S0308814619310623</a></li> <li>· doi: 10.1016/j.foodchem.2019.124960</li> </ul>
2017	<b>Non-essential element concentrations in brown grain rice: Assessment by advanced data mining techniques</b> Environmental Sciences and Pollution Research - Springer <ul style="list-style-type: none"> <li>· <a href="https://www.ncbi.nlm.nih.gov/pubmed/28424959">https://www.ncbi.nlm.nih.gov/pubmed/28424959</a></li> <li>· doi: 10.1007/s11356-017-9017-2</li> </ul>
2017	<b>Perfil mineral en los pastizales de Andropogon lateralis y Sorghastrum setosum (Gramineae) en Corrientes, Argentina</b> Universidad Nacional de Cuyo - Facultad de Ciencias Agrarias <ul style="list-style-type: none"> <li>· <a href="https://bdigital.uncu.edu.ar/objetos_digitales/9644/20172-cp15-bernardis.pdf">https://bdigital.uncu.edu.ar/objetos_digitales/9644/20172-cp15-bernardis.pdf</a></li> </ul>
2016	<b>Tracing the geographical origin of Argentinean lemon juices based on trace element profiles using advanced chemometric techniques</b> Microchemical Journal - Elsevier <ul style="list-style-type: none"> <li>· <a href="https://www.sciencedirect.com/science/article/abs/pii/S0026265X16301382">https://www.sciencedirect.com/science/article/abs/pii/S0026265X16301382</a></li> <li>· doi: 10.1016/j.microc.2016.07.002</li> </ul>
2015	<b>Toxic trace element contents in gluten-free cereal bars marketed in Argentina</b> International Journal of Celiac Disease - SciEP <ul style="list-style-type: none"> <li>· <a href="http://pubs.sciepub.com/ijcd/3/1/4/index.html">http://pubs.sciepub.com/ijcd/3/1/4/index.html</a></li> <li>· doi: 10.12691/ijcd-3-1-4</li> </ul>



## COMMUNITIES PROJECT

Currently   2019	<b>R-en-el-NEA (R user's group)</b> Co-founder and co-organizer <ul style="list-style-type: none"> <li>· <a href="https://renelnea.github.io/web/">https://renelnea.github.io/web/</a></li> </ul>	Communities Social Media - <a href="#">Rladies-Rcia-Ctes</a> <a href="#">R-en-el-Nea</a>
Currently   2018	<b>Rladies Resistencia Corrientes</b> Co-founder and co-organizer <ul style="list-style-type: none"> <li>· <a href="https://www.meetup.com/es/rladies-resistencia-corrientes/">https://www.meetup.com/es/rladies-resistencia-corrientes/</a></li> </ul>	
Currently   2019	<b>LatinR Organization</b> <a href="https://latin-r.com/equipo/">https://latin-r.com/equipo/</a>	
2018	<b>Spanish translation of R4DS</b> Available at <a href="https://es.r4ds.hadley.nz/">https://es.r4ds.hadley.nz/</a>	



## TALKS AND MEETUPS

2019	<b>Machine Learning &amp; Khipu.ai</b> R-en-el-NEA	Resistencia, Argentina
2019	<b>Dplyr tutorial</b> Rladies-Resistencia-Corrientes	Corrientes, Argentina
2019	<b>Machine Learning: a brief introduction</b> IQUIBA-NEA	Corrientes, Argentina

All my talks available at -  
[speakerdeck](#)

2018	<b>Dplyr and TidyR introduction</b> Rladies-Resistencia-Corrientes	📍 Corrientes, Argentina
2018	<b>LatinR2018</b> Rladies-Resistencia-Corrientes	📍 Corrientes, Argentina
2018	<b>R Programming from scratch</b> Rladies-Resistencia-Corrientes	📍 Corrientes, Argentina
2018	<b>Rladies presentation</b> Rladies-Resistencia-Corrientes	📍 Corrientes, Argentina
2017	<b>Machine Learning for data analysis</b> IQUIBA-NEA	📍 Corrientes, Argentina



## MASSIVE ONLINE OPEN COURSES

2019	<b>Data Scientist with Python</b> Datacamp	
2019	<b>Data Scientist with R</b> Datacamp	
2017	<b>Deep Learning Specialization: Structuring Machine Learning Projects</b> Coursera	
2017	<b>Deep Learning Specialization: Improving Deep Neural Networks</b> Coursera	
2017	<b>Deep Learning Specialization: Neural Networks and Deep Learning</b> Coursera	
2017	<b>Machine Learning Specialization: Classification - University of Washington</b> Coursera	
2017	<b>Machine Learning Specialization: Regression - University of Washington</b> Coursera	
2017	<b>Machine Learning Specialization: Foundations - University of Washington</b> Coursera	
2017	<b>Python for Data Science and Machine Learning</b> Udemy	
2017	<b>Ensemble Machine Learning: Random Forest and Adaboost</b> Udemy	
2017	<b>SQL Bootcamp</b> Udemy	
2016	<b>Learning from data - California Institute of Technology</b> edX	
2016	<b>Statistical Learning - Stanford University</b> Stanford Lagunita	

2016

**Advanced Data Mining with WEKA**

Waikato University

2016

**More Data Mining with WEKA**

Waikato University

2016

**Data Mining with WEKA**

Waikato University