Juan Cruz Rodriguez

Education

- o PhD in Computer Science
 - FAMAF National University of Córdoba (2014 2019)
- MSc in Applied Statistics
 - FCA, FCE and FAMAF National University of Córdoba (2014 2019 est.)
- o MSc in Computer Science
 - FAMAF National University of Córdoba (2007 2012)
- o BSc in Computer Science
 - FAMAF National University of Córdoba (2007 2009)

Teaching Activities

- Teaching Assistant
 - FAMAF National University of Córdoba (May 2014 Present)
 - Algorithms and Data Structures
- Teaching Associate
 - Faculty of Engineering Catholic University of Córdoba (2013 2014)
 - Programming in Python
- Student Assistant
 - FAMAF National University of Córdoba (2011 2012)
 - Algorithms and Data Structures II & Databases

Industry Experience

- Software Engineer
 - Applied Research (INVAP; June 2013 October 2013)
 - C ++ / Qt
- QA Engineer
 - HPC Group at Intel Corporation (June 2012 June 2013)
 - C, Perl, Python, Bash

R Packages

Bioconductor

o MIGSA: Massive and Integrative Gene Set Analysis.

CRAN

o rflights: Query plane tickets using the 'Kiwi' API.

GitHub

- o autokeras: R interface to Auto-Keras.
- o Keras Model Creator: Visually design Keras models for R language.
- o shinyWYSIWYG: Shiny What You See Is What You Get (WYSIWYG) editor.

o shinyParallel: Run Shiny applications in a multi-session mode.

Awards and Distinctions

- o University Award
 - Diploma with Special Mention
 - National University of Córdoba to the second best average of 2011 graduates
- o Substitute for First Escort
 - FAMAF National University of Córdoba (2011)

Scholarships

- o Fulbright exchange visiting scholarship At the University of Florida (2018)
- Doctoral Scholarship
 - National Scientific and Technical Research Council, Argentina (CONICET; 2013 2019)
- Master's Scholarship
 Government of Córdoba, Argentina (2007 2011)

Publications

2019

- o Rodriguez, J. C., Luraschi J.
 - Auto-Keras: An R easily accessible deep learning library.
- o Rodriguez, J. C., Merino, G. A., Llera A. S., Fernández, E. A. Massive integrative gene set analysis enables functional characterization of breast cancer subtypes. (Journal)

2018

o Rodriguez, J. C., Vargas Rojas C., Fernández, E. A. ShinyWYSIWYG: a Shiny What You See Is What You Get editor.

2017

Rodriguez, J. C., Prato L., Llera A. S., Fernández, E. A.
 Effects of RNA-Seq data gene analysis methods, on the over-representation analysis of gene sets.

2016

- o Rodriguez, J. C., González, G. A., Fresno, C., Llera, A. S., Fernández, E. A. Improving Information Retrieval in Functional Analysis. (Journal)
- Rodriguez, J. C., Merino, G. A., Prato L., Llera A. S., Fernández, E. A.
 The impact of RNA-Seq differential expression algorithms on Over-Representation Analysis of Gene Sets.

2015

- o Rodriguez, J. C., González, G., Fresno, C., & Fernández, E. A. Integrative Functional Analysis Improves Information Retrieval in Breast Cancer.
- o Fresno C., González G. A., Merino G. A., Rodriguez J. C., Balzarini M., Fernández E. A. DNA Microarrays Quality Control by ANOVA-PCA / PLS decomposition.

Research Exchange

• At the Ana Conesa Lab.

University of Florida, USA (October 2018 - December 2018)

o At the Genomics of Gene Expression group. Centro de Investigación Príncipe Felipe, Valencia, Spain *(October 2017 - December 2017)* DEANN project (Marie Curie IRSES, European Commission, 2013)