Dr. Alejandro Celis

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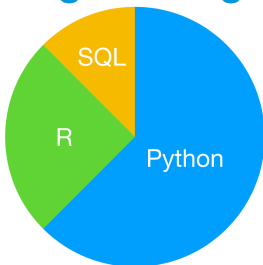+49(0)15224573395

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Programming

Machine Learning
Keras, MXNet, Scikit-learn

Languages

Spanish	★★★★★
English	★★★★★
German	★★★☆☆
Chinese	★☆☆☆☆

Experience

Postdoctoral Researcher, Theoretical Physics   LMU, Munich
March. 15 - Now
Interpretation of data from different experiments within particle physics models, involving model comparison and parameter inference analyses.
Scientific publications available in arxiv.org

Education

PhD in Theoretical Physics, Cum Laude   University of Valencia, Spain
2011 - 2014
Research in the field of Higgs physics. Develop models to explain features observed in the experimental data and test their validity.

Master in Theoretical Physics   University of Valencia, Spain
2011 - 2014

Master of Science, Physics   Lund University, Sweden
2008–2009

Licentiate in Physics   Simon Bolivar University, Venezuela
2004–2010

Recent projects

Clustering of kinematical shapes in particle decay   Research Project
2018
Characterize shapes in the kinematical distributions of B-meson decays in the presence of new physics contributions using a Clustering algorithm, motivated by arXiv:1507.02245. Github repository.

Twitter Bot @BolivarMcDolar   Personal project
2018
Due to currency controls in Venezuela, people rely on the black market for currency exchange. This Twitter Bot posts regularly the conversion rate between the Venezuelan currency and the US Dollar based on the latest Bitcoin transactions in https://localbitcoins.com. Github repository.

DsixTools   Research project
2017
A Mathematica program to solve numerically a large system of coupled differential equations used in the field of particle physics, parsing input and outputting in JSON and YAML formats. Github repository.

Fellowships

Alexander von Humboldt Fellow, Postdoctoral Research   LMU, Munich
Alexander von Humboldt Foundation.