

NICOLÁS FORTEZA

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EMPLOYMENT

Data Scientist <i>Bank of Spain, DG Economics, Statistics & Research</i>	2020 - <i>Madrid, Spain</i>
Data Scientist <i>Keepler Data Tech</i>	2018 - 2020 <i>Madrid, Spain</i>
Data Scientist <i>ETS Asset Management, Quantitative Research</i>	2017 - 2018 <i>Madrid, Spain</i>

EDUCATION

M.Sc. Economics Research <i>UNED</i>	2021 - <i>Madrid, Spain</i>
M.Sc. Data Science <i>CUNEF</i>	2016 - 2017 <i>Madrid, Spain</i>
B.Sc. Economics & Finance <i>Universidad Autónoma de Madrid</i> <ul style="list-style-type: none">• Visited Università Cattolica del Sacro Cuore	2012 - 2016 <i>Madrid, Spain</i>

RESEARCH

WORKING PAPERS

A Score Function to Prioritize Editing in Household Survey Data: A Machine Learning Approach, *with Sandra García Uribe*
Bank of Spain [Working Paper No. 2330](#)

WORK IN PROGRESS

Alternative Unemployment Measures with Machine Learning, *with Sergio Puente*
News Concentration, *with Sandra García Uribe*
Analysing the VAT Cut Pass-Through in Spain using Supermarkets' Web-scraped Data and Machine Learning, *with Elvira Prades and Marc Roca*

SOFTWARE

Survey of Financial Competences Web

Web

- *Available Soon!*

expden

Package

- GIS Python library for novel economic population density measures

ggBdE

Package

- Proprietary R Library to customise ggPlot graphics according to the Bank of Spain corporate image

Spanish Survey of Household Finances

Web

- Developed a cloud based web application for data visualization and dissemination.
- Frameworks used: Python, JS, HTML, CSS

CONFERENCES

2023: Symposium of Data Science and Statistics by the [ASA](#) (St. Louis, US), Research and Policy Conference of the [FCSM](#) (U. Maryland), Big Data and Data Science Applications and Development at Central Banks by [CEMLA](#) (online).

2022: Big Data and Data Science Applications and Development at Central Banks by [CEMLA](#) (online), Empirical Research with Large Datasets by Banco do Portugal [Data Lab](#) (Oporto, Portugal)

2021: Big Data and Data Science Applications and Development at Central Banks by [CEMLA](#) (online).

2019: [T3chfest](#) at Universidad Carlos III (Madrid, Spain)

TEACHING

R Programming

2021, 2022

Blockchain School of Management

Madrid, Spain

COURSES

Deep Learning

2018

Udacity

TECHNICAL SKILLS

Languages: Python, R, SQL, Scala HTML/CSS, JavaScript, Matlab

Developer Tools: Pycharm, Jupyter Notebooks, RStudio, Power BI