

Agustin Fernández Felguera

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EDUCATION

Cemfi

Sep. 2021 – July. 2023

Master's degree in Economics and Finance

Madrid, Spain

- Strong analytical and quantitative program taught by internationally-recognized scholars.

University of Barcelona

Sep. 2016 – Sep. 2020

Bachelor's degree in Economics, Faculty of Economics and Business

Barcelona, Spain

- Last two years on the EUS Programme, which entails prior selection according to academic record and level of language skills. The programme offers intensive teaching over three semesters, all in English.
- Average grade: 8.8/10 with Honours in 11 courses.

University of Barcelona and Polytechnic University of Catalonia

Sep. 2015 – Sep. 2020

Bachelor's degree in Statistics, Faculty of Economics and Business

Barcelona, Spain

- Award for the best academic record of the class 2019-20 (1,000 EUR).
- Average grade: 8.8/10 with Honours in 11 courses.

EXPERIENCE

Economist

October 2020 – Present

General Directorate of Economic Analysis, Catalan Government

- Monitoring of the Catalan Economy, using short-term economic analysis.
- Analysis and manipulation of macroeconomic data. Using, among others, dynamic linear models.
- Creation of presentations and reports related to the state of the economy.

Economist trainee

Feb. 2020 – July 2020

General Directorate of Economic Analysis, Catalan Government

- I wrote a note about people Not in Employment, Education or Training (NEETs). Their characteristics and evolution over time.
- Analysis of the Labour Force Survey and automation of reports.

Statistics degree scholarship

October 2018 – May 2019

Polytechnic University of Catalonia

- Creation of activities to motivate students.
- Correction of exercises and projects.
- Review classes for freshmen related to single variable calculus and statistical inference.

PROJECTS

Determinants of the demand for education in Spain and Catalonia

March 2020 – July 2020

Economics Degree Final Project, with Honours (9.5/10)

- The aim of this work is to identify the determinants of demand for secondary and higher education in both Spain and Catalonia and to analyse whether there is a certain intergenerational determinism in education.
- I show that education of the parents, nationality and place of birth, among others, are important to determine the demand for education. Additionally, in Spain there is a persitent intergenerational immobility in the educational levels achieved.

Dimensionality reduction for clustering with deep neural networks

Jan. 2020 – September 2020

Statistics Degree Final Project, with Honours (10/10)

- The aim of this work is to analyse how dimensionality reduction can help clustering improve its performance. In order to do that, I distinguish three different clustering strategies: Traditional, two-stages and deep clustering.
- I show that for the datasets used, clustering using Neural Networks outperforms the other alternatives.

LANGUAGES & COMPUTER SKILLS

Languages: Spanish and Catalan (native), English (C1)

Programming languages: R (advanced), Python (intermediate), SAS (basic), SQL

Markup languages: \LaTeX , HTML/CSS

Others: Working knowledge of data analysis, machine learning algorithms and natural language processing