Felipe Maciel Cardoso

Data Scientist | Quantitative Researcher

2 December 19, 1988

Zaragoza, Spain

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https://fmcardoso.github.io

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Skills

Design & Analysis of Experiments

Data Analysis in R and Python

Behavioural Game Theory

Agent-Based Models

Inference, Regression & Machine Learning

Complex & Social Network Analysis

Object-oriented Programming

Information Retrieval & Preprocessing

Databases & SQL

Agile Software Development

Data Visualization

Time Series & Panel Data Analysis

Web Application Development

Topic Modelling & NLP

Mobile Software Development (Android)

Mentoring

Languages

Portuguese

English

Spanish



Education

2014 - 2016

2008 – 2012

2017 – 2020 **PhD in Physics** University of Zaragoza **Thesis:** *Strategic and Selfless interactions: A study of human be-*

haviour

MSc in Computer Science

Bachelor of Computer Science

MSc in Computer Science University of Campinas

Thesis: Topical Homophily in an Online Social Network

Campinas, Brazil

Working Experience

Research & Data Science

2017 – 2021 Research assistant University of Zaragoza & UC3M

Development of platforms for socio-economic experiments using Django/Python and PostgreSQL databases. Execution and data analysis of experiments using econometric models and machine learning algorithms. Theoretical modelling in evolutionary game theory.

Software Development

2013 – 2014 Software Engineer

Kaffa Mobile

University of Campinas

Development of mobile and web applications with Java and Lua for GIS. SQL Server, HSQLDB and H2 databases. Requirements analysis

directly with stakeholders.

2012 – 2013 Software Developer

MC1

Development of applications for Android and Windows mobile devices. Ported Windows Mobile (C#) code to Android (Java). SQL

Server and SQLite databases. Training of interns.

2011 – 2012 Software Engineer

Kaffa Mobile

Development of applications with Java and Lua for mobile devices.

SQL Server, HSQLDB and H2 databases.

2011 – 2011 Web Developer

CPqD

Web Development with Java and JavaScript.

2009 – 2011 **Web Developer**

Institute of Economics - UNICAMP

Development of Web Applications using Java, JavaScript, JSF, and

SQL Server Database.

2008 - 2008 Web Developer

Celere

Development of Web Applications with C#.NET, ASP.NET, and SQL Server Database.

Server Database.

John & Mark IT Solutions

CAPES

2007 – 2007 Software Developer

Software Development with Visual Basic.NET and SQL Server.

Exchanges

2019 – 2019 Institute for Scientific Interchange Turin, Italy

One month exchange at the ISI Foundation.

2018 – 2018 Institute for Scientific Interchange Turin, Italy

One month exchange at the ISI Foundation

2015 – 2016 University of Zaragoza Zaragoza, Spain

Six months exchange at the COSNET Lab.

Grants & Awards

2015 – 2016 Open Data Scholarship

olarship Microsoft Research

17 Months Master Scholarship

2015 – 2016 International Mobility Scholarship Santander

Mobility scholarship for 6 months exchange at University of Zaragoza

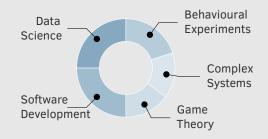
2014 – 2016 Master Scholarship

3 Months Scholarship

Felipe Maciel Cardoso

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Expertise



Programming Languanges -

Python R C++ Java Lua C
C# JavaScript

Databases

PostgreSQL MySQL SQL Server
HSQLDB SQLite

Development Methodologies

Scrum Kanban

Libraries & Tools -



Referee Experience

PLoS ONE Physical Review E
Chaos, Solutions & Fractals JSTAT
Journal of Complex Networks

2011 1st Place on the Evaluation Competition

Undergraduate Level

Publications

2020	Dynamics of heuristics selection for cooperative behaviour
	F Marial Candona C Currie Lámora and V Mariana

F. Maciel Cardoso, C. Gracia-Lázaro, and Y. Moreno

New Journal of Physics

2020 Behavioural patterns behind the demise of the commons across

different cultures

M. Jusup, F. Maciel-Cardoso, C. Gracia-Lázaro, C. Liu, Z. Wang, and

IHC+CLIHC 2011

Y. Moreno

Royal Society Open Science

2020 Effect of network topology and node centrality on trading

F. Maciel Cardoso, C. Gracia-Lázaro, F. Moisan, S. Goyal, A. Sánchez,

and Y. Moreno Scientific Reports

2020 Understanding drivers when investing for impact: an experimen-

tal study

L. De Amicis, S. Binenti, F. Maciel Cardoso, C. Gracia-Lázaro, A.

Sánchez, and Y. Moreno Palgrave Communications

2020 Time evolution of the behaviour of Brazilian legislative Represen-

tatives using a complex network approach

L. Marenco, H.A. Carmona, F. Maciel Cardoso, J.S. Andrade Jr, and

C.L. Cesar PLoS ONE

2019 Topical Alignment in Online Social Systems

F. Maciel Cardoso, S. Meloni, A. Santanche, and Y. Moreno

Frontiers in Physics

Talks

2020	6th Annual Worksho	on Complex Sociotechnical Sy	/stems

COMSOTEC20, Burgos, Spain

The selection of heuristics and the evolution of cooperation

2019 Early Career Researcheers in Experimental Economics Workshop

ECREEW, Santiago de Compostela, Spain

Indirect donations promote contributions to public goods

2019 Conference on Complex Systems

CCS19, NTU University, Singapore Trading in Complex Networks

2019 BIFI IX National Conference 2019

BIFI 19, Zaragoza, Spain

Trading in Networks - Topology and Prices

2018 Conference of Complex Systems

CCS18, Thessaloniki, Greece

Universal behavioural patterns behind the demise of the commons

2018 4th Annual Workshop on Complex Sociotechnical Systems

COMSOTEC18, Zaragoza, Spain

Trading in Networks: Efficiency and Topology

Academic Activities

2015 Teaching Assistant - IC/UNICAMP

Algorithms and Computer Programming

Laboratory classes, marking, assignment review, office hours, online

support.

2018 BIFI18 Zaragoza, Spain

BIFI International Conference on Complexity, Networks and Collec-

tive Behavior

Web design, implementation and local organization