

As a decision and data scientist with extensive knowledge of cognitive biases, I utilize advanced mathematical modeling and machine learning techniques to accurately describe and predict consumer behavior. My ultimate goal is to better understand and explain patterns in the data through this process, in order to gain a deeper understanding of consumer behavior and make more informed decisions.

SKILLS

Quantitative Research	Mathematical Modeling, Mathematical Optimization, A/B Testing, Statistics, Machine Learning
ML Tools and Languages	SQL, Python, Pandas, Numpy, Statsmodels, SKLearn, PyMC, Tensorflow, Keras, PyTorch, Matplotlib, Seaborn, Flask
SE Tools	GIT/GITHub, Docker, AWS
Other Tools	MS Office, \LaTeX
Operating Systems	MS Windows, MacOS, Linux-Ubuntu
Communication	Italian (native), English(fluent), Spanish (fluent), Catalan (intermediate), French (basic)

PROFESSIONAL EXPERIENCE

Data Scientist <i>Buynomics</i>	2023 — Present <i>Barcelona, Spain</i>
<ul style="list-style-type: none">Machine Learning.Mathematical Modeling.Software Engineering.	
Assistant Professor of Economics <i>Universitat Pompeu Fabra (UPF)</i>	2016 — 2023 <i>Barcelona, Spain</i>
<ul style="list-style-type: none">Research in Behavioral Economics (Mathematical Modeling, A/B Testing).Undergraduate and Graduate Teaching (Microeconomics and Mathematics).	
Research Assistant <i>Universitat Autònoma de Barcelona (UAB)</i>	2011 — 2015 <i>Barcelona, Spain</i>
<ul style="list-style-type: none">Mathematica Programming.Mathematical Modeling.	
Lecturer: Game Theory (M.Sc.) <i>Universitat Autònoma de Barcelona (UAB)</i>	2015 <i>Barcelona, Spain</i>
<ul style="list-style-type: none">Non-Cooperative Game Theory.Equilibrium Selection.	
Lecturer: Game Theory for QEM (M.Sc.) <i>Universitat Autònoma de Barcelona (UAB)</i>	2015 <i>Barcelona, Spain</i>
<ul style="list-style-type: none">Non-Cooperative Game Theory.Equilibrium Selection.Game Theoretical Modeling of Real Situations.	
Teaching Assistant: Optimization (Ph.D.) <i>Universitat Autònoma de Barcelona (UAB)</i>	2012 — 2013 <i>Barcelona, Spain</i>
<ul style="list-style-type: none">Real Analysis.Convex Optimization.	

EDUCATION

Ph.D. in Economics (IDEA) (cum laude) , <i>Universitat Autònoma de Barcelona</i>	2012 — 2016
M.A. in Economics , <i>Universitat Autònoma de Barcelona</i>	2010 — 2012
M.Sc. in Economics , <i>Barcelona Graduate School of Economics</i>	2009 — 2010
Magistralis in Economics (cum laude) , <i>Università degli Studi di Siena</i>	2007 — 2009
University Degree in Economics (cum laude) , <i>Università Politecnica delle Marche</i>	2004 — 2007
<i>Visiting Student, The Eitan Berglas School of Economics - TAU, Israel</i>	2014

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Francesco Cerigioni

Decision and Data Scientist

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PRIZES AND GRANTS

Recognition Programme, <i>Barcelona School of Economics, Spain</i>	2022
Juan de la Cierva Incorporación, <i>Ministry of Science and Innovation, Spain</i>	2022 — 2023
Enrique Fuentes Quintana Prize for Best Ph.D. Thesis in Social Sciences, <i>Funcas, Spain</i>	2015 — 2016
FPI Scholarship: BES2011-048581, <i>Ministry of Science and Innovation, Spain</i>	2011 — 2015
FPI Grant for Visit at Tel Aviv University, <i>Ministry of Science and Innovation, Spain</i>	2014
PIF Scholarship, <i>UAB, Spain</i>	2011
Merit University Fees Voucher, <i>Regione Marche, Italy</i>	2009
Merit Fee Waiver, <i>Università degli Studi di Siena, Italy</i>	2008 — 2009
Merit Fee Waiver, <i>Università Politecnica delle Marche, Italy</i>	2005 — 2007

PUBLICATIONS AND PEER-REVIEWED PAPERS

- Dual Decision Processes: Retrieving Preferences when some Choices are Automatic
Journal of Political Economy, 129 (6): 1667-1704, 2021 (**Lead Article**)
- Dual Decision Processes and Noise Trading
Revise and Resubmit at the *Journal of the European Economic Association*
- Listing Specs: The effect of Framing Attributes on Choice (with S. Galperti)
Forthcoming at the *Journal of the European Economic Association*
- Higher Orders of Rationality and the Structure of Games (with F. Germano, P. Rey-Biel and P. Zuazo-Garin)
- Choice by Associations (with J. Apestegua)
- Stochastic Choice and Familiarity
Revise and Resubmit at the *Journal of Economic Behavior and Organization*
- Sequential Choice and Self-Reinforcing Rankings (with P.P. Analytis, A. Gelastopoulos and H. Stojic)

OTHER ACTIVITIES

Selected Seminars and Conferences

- Hebrew University
- HEC Paris
- Northwestern University
- Stanford University
- Tel Aviv University
- University College London
- UC San Diego

Other Professional Activities

- Guest lecturer at Barcelona School of Economics - Master in Data Science for Decision Making
- Guest lecturer at Escuela de Administración Pública de Cataluña
- Refereeing for top journals in economics.
- Coordinator of graduate and undergraduate courses.
- Co-editor of BGSE Focus.