

# Víctor Ortiz Giménez

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## RESEARCH INTERESTS

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Empirical International Trade, Machine Learning, Econometrics, Developing Econ, Policy Evaluation

## EDUCATION

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**PhD in Economics, Networks and Business Analytics (ENBA)** Nov. 2018 – Present

*IMT School for Advanced Studies Lucca, Italy*

- *Focusing on International Trade and Machine Learning:* Export dynamics in Latin America

**MSc Quantitative Economics (QED)** Sep. 2016 – Jul. 2018

*University of Alicante, Spain*

- *Relevant Coursework:* Macroeconomics I/II/III, Advanced Macroeconomics I/II/III, Macroeconometrics, Microeconomics I/II/III, Econometrics I/II/III, Time Series, Mathematics, Statistics, Labour Economics, Behavioural Economics

**Bachelor in Economics** Sep. 2014 – Jun. 2015

*Maastricht University, The Netherlands*

- *Exchange Program*
- *Relevant Coursework:* Development Economics, Country Risk Analysis, Banking, International Competition Policy, International Economics, Public Economics

**Bachelor in Economics** Sep. 2012 – Jun. 2016

*University of Carlos III Madrid, Spain*

- *Relevant Coursework:* Macroeconomics, Microeconomics, Econometrics, Mathematics, Statistics, Game Theory

## EXPERIENCES

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**Fund Internship Program (FIP)** Jun. 2021 – Sep.. 2021

*International Monetary Fund, Washington DC, US*

**Research Assistant to Prof. Massimo Riccaboni** Nov. 2018 – Present

*IMT School for Advanced Studies Lucca, Italy*

**Research Assistant to Dr. Gabriel Pérez Quirós** Feb. 2016 – Jun. 2016

*Bank of Spain, Spain*

**Instructor of EViews course “Time series for medical research”** May. 2017 – Jun. 2017

*Miguel Hernandez University, Spain*

**Finance Internship** Aug. 2015 – Jan. 2016

*Ahorro Corporacion Financiera, Spain*

## TECHNICAL SKILLS

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**Softwares & Tools:** R (*Advanced*), Stata (*Intermediate*), Eviews (*Intermediate*), MATLAB (*basic*), Python (*basic*)

**Statistical:** Panel Data, Time Series, Causal Inference, Big Data, Machine Learning, Text Mining (basic)

## LANGUAGES

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**Spanish:** Native

**English:** Proficiency

**Italian:** Intermediate

## SOFT SKILLS

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**Collaboration**

**Creative thinking and problem solving**

**Resilience**

## PROJECTS

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### Research in Progress:

*“The Effect of Covid-19 Pandemic on Trade: Evidence from Colombian Firms”*

- This paper aims to study the heterogeneity of the effects of trade shocks on different firms by using Causal Machine Learning (CML) techniques. This essay aims to analyze the effect that the COVID-19 crisis has on the trade flows and the firm’s adjustment to this shock in Colombia. Machine-Learning techniques are beneficial in the presence of large amounts of data (1+ million of customs transactions) as well as in the presence of complex inter-dependencies between firms and products belonging to different sectors and countries. Besides the temporal dimension, I find that the main factors predicting treatment heterogeneity are interactions between firm size and the industry where the exporter operates. Models, maps visualization, and cleaning data are carried out in R.

### Masters Thesis:

*“The Economic Cost of a Referendum. The case of Brexit”*

- This paper estimates how GDP would have behaved in the United Kingdom after the Brexit referendum in the absence of the mentioned poll. The analysis contributes to the research on the effects of Brexit by quantifying the macroeconomic cost of this referendum before the actual Brexit had taken place. Using synthetic counterfactual techniques, in a panel of 33 countries, I find a large and significant cost of the Brexit referendum on the UK’s GDP. The loss increased in time, representing 156.03 billion of USD from 2016.Q3 to 2017.Q4. The software used was Stata.

### Bank of Spain:

*“Nowcasting the Economy”*

- Use Dynamic Factor models to predict the Economy in real-time in MATLAB. Usually, GDP data is released quarterly. Using four monthly variables (Industrial Production Index, Retail Sales, Imports, and Employment) and Kalman Filter, I predicted +70% of the monthly GDP growth.

## PRESENTATIONS & CONFERENCES

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**2019** 14th Economic Policy International Conference (JYPE14). Barcelona, Spain

**2019** Spanish Economic Association Conference (SAEe). Alicante, Spain

## GRANTS, SCHOLARSHIPS AND AWARDS

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<b>IMT School for Advanced Studies Scholarship</b>	<b>2018 – Present</b>
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*Full Doctoral Scholarship, awarded with the 1st position out of 570 candidates*

<b>University of Alicante Scholarship</b>	<b>2017 – 2018</b>
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*Fee waiver*

<b>Spanish Government Scholarship</b>	<b>2012 – 2017</b>
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*Fee waiver*

<b>Erasmus Grant</b>	<b>2014 – 2015</b>
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*Erasmus Exchange Program*

## OTHER ACTIVITIES

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I have played handball at a semi-professional level for about six years, enjoy playing padel, and like traveling. Besides, I enjoy broadening my knowledge by taking different online courses, being currently enrolled in a Udemy course on machine learning and a course on text mining.