

JACOBO FERRER HERNÁNDEZ

[Contact](#) · [Website](#) · [Orcid](#) · [Github](#) · [LinkedIn](#)

EDUCATION

Ph.D Candidate in Civil Systems Engineering

Universidad Politécnica de Madrid

2025

- Provisional title: *Essays on Distributional and Environmental Input-Output Modeling of Urban Areas.*

Ph.D in Economics

The New School for Social Research

2024

- Dissertation title: *Essays on Interindustry Prices and Living Standards.*
- Qualifying Fields: Political Economy and Econometrics.

Master of Science in Economics (M.Sc.)

The New School for Social Research

2020

Master of Arts in International Economics and Development (M.A.)

Complutense University of Madrid

2014

Bachelor's degree in Sociology (Licenciatura)

Complutense University of Madrid

2012

EXPERIENCE

Researcher

Technical University of Madrid

September 2023 - Present

- Researcher in the project *Unconventional techniques for greenhouse gas inventories in cities. Application to the city of Madrid* (UNCONGHGCITY), at the Technical University of Madrid. My main responsibility is the integration of a projected input-output table of the city of Madrid within the MRIO FIGARO database to derive the city's carbon footprint. To this end, I have used the sample of city households coming from the Spanish Household Budget Survey and developed an urban air emissions account out of the Council's GHG inventory and Eurostat's methodology.

Ph.D. Trainee

European Central Bank

October 2022 - August 2023

- *PhD Trainee* in DG-Statistics, External Statistics and Sector Accounts (ESSA), Sector Accounts and Fiscal Statistics Section (SFS), as part of the team in charge of the development of the Distributional Wealth Accounts for the Euro Area. Main responsibilities included regular production, code maintenance and development, bilateral contact with countries, and presentation of results on the statistical matching for improved extrapolation of DWA during the meeting of the Expert Group on Distributional Financial Accounts (EG DFA) in May 2023.

Junior Economist

United Nations Development Program (UNDP)

November 2020 - March 2021

- Junior economist at the Digital Socio-Economic Impact Assessment (SEIA) initiative of the United Nations Development Program (UNDP). Main responsibilities include the statistical and economic analysis of survey data, with special attention to constructing multidimensional vulnerability indexes in post-crisis environments. The tasks of the socio-economic team I took part in the design of questionnaires and the delivery of policy reports assessing households' situation of vulnerability to COVID-19 in countries such as Afghanistan, Sierra Leone, Bolivia, Armenia, and Lebanon, in collaboration with their respective Country Offices.

United Nations Volunteer

United Nations Development Program (UNDP)

August 2020 - September 2020

- UNV at the Digital Socio-Economic Impact Assessment (SEIA) initiative of the United Nations Development Program (UNDP). Main responsibilities include the statistical and economic analysis of survey data, with special attention to constructing multidimensional vulnerability indexes in post-crisis environments. The tasks of the socio-economic team I took part on focused on the design of questionnaires and the delivery of policy reports assessing households situation of vulnerability to COVID-19 in countries such as Afghanistan, Sierra Leone, Bolivia, Armenia and Lebanon, in collaboration with their respective Country Offices.

Research Assistant

The New School for Social Research

August 2018 - May 2019 (part-time)

- My contribution consisted of producing the data and doing methodological research for Professor Ying Chen's research on the effects of outsourcing and offshoring on the definition and domestic measurement of productivity. For this purpose, my tasks consisted of understanding and developing the R code necessary to process the World Input-Output Database and deriving the required productivity indicators.

Pre-doctoral Researcher (FPI)

Department of Sociology II, UNED, Madrid

December 2015 - August 2016

- Researcher in the R+D project "Reducing Structural Unemployment in Spain: Training and Employment, Labor Costs, Migrations, Welfare State and Family", in the Department of Sociology II (CSO2014-59927-R). Contribution to the elaboration of policy reports and research papers on unemployment and family structure in Spain. Tasks included the processing of large survey databases, statistical analysis, and writing and presentation of research results.

PUBLICATIONS

(2023) "On the limits of planning in labor time from the standpoint of the theory of value". *Review of Evolutionary Political Economy*, Volume 4, pages 515–535. DOI: [10.1007/s43253-023-00108-8](https://doi.org/10.1007/s43253-023-00108-8)

(2022) "Some Recent Developments in The Explanation of The Empirical Relationship Between Prices and Distribution". *Contributions to Political Economy*, vol. 41, Issue 1, pp. 29–57. Co-authored with Luis Daniel Torres-González DOI: [10.1093/cpe/bzac002](https://doi.org/10.1093/cpe/bzac002)

WORKING PAPERS

(2024) "Local drivers and global suppliers of GHG emissions from the city of Madrid, 2010-2021". Co-authored with Sergio Alvarez. [Link to the document](#)

(2024) "On the Role of Profits-Wages Ratios in the Determination of the Long-Run Behavior of International Relative Prices". *Centro Sraffa Working Papers*, n. 67, July 2024. ISSN: 2284-2845. Co-authored with Adrián Martínez-González and Luis Daniel Torres-González. [Link to the document](#)

TEACHING EXPERIENCE

Teaching Assistant

The New School for Social Research

Graduate Econometrics

January - May 2020

- TA in the graduate core econometrics course (MA, MSc in economics). Topics covered include the OLS estimator, the BLUE conditions and their violations, introduction to time series. The labs followed a mixture of lectures and hands-on econometric analysis with R. Lecture notes and exercises were provided for each session.

Teaching Fellow

The New School for Social Research

Political Economy of Populism

August - December 2019

- Intermediate-level political economy course focused on the relationship between economic change and political contestation. The core of the course was devoted to the macroeconomics of inequality, growth, and electoral behavior, applied to the discussion of case studies including Latin America, Europe, and the United States. Lecture notes, exercises, and supplementary readings were provided. Excellent student reviews.

Teaching Assistant

The New School for Social Research

Graduate Econometrics

January - May 2019

- TA in the graduate core econometrics course (MA, MSc in economics). Topics covered include the OLS estimator, the BLUE conditions and their violations, introduction to time series. The labs followed a mixture of lectures and hands-on econometric analysis with R. Lecture notes and exercises were provided for each session.

- Three sessions dedicated to the R programming language and its statistical application to development data.

CONFERENCES & PRESENTATIONS

- (2024) **Webinar of the Hispanic-American Input-Output Society (SHAIO)** Recording
Local drivers and global suppliers of GHG emissions from the city of Madrid, 2013-2019, 10 October
- (2024) **10th Spanish Conference of the Hispanic-American Input-Output Society (SHAIO)**
 - *Tracking local drivers and global suppliers of urban 3-scope GHG emissions: An application to the city of Madrid, 2013-2019*, 5-6 de September. Winner of the Emilio Fontela research prize.
 - *Distributional Feedback effects of industry-specific price shocks on the general price level*, 5-6 de September
- (2024) **ICEI & YSI Workshop on Alternative Approaches to Innovation in a Dynamic World**
Distributional Feedback effects of industry-specific price shocks on the general price level, 7-8 de March
- (2022) **34th Annual Conference of the European Association for Evolutionary Political Economy**
Real exchange rates and the profits-wages ratios, con Luis Daniel Torres-González, Naples, 7-9 de September
- (2019) **45 conferencia anual de la Eastern Economic Association (EEA)**
Are Markets Turning the Terms of Trade Against Growth?, New York, 1-3 de March

AWARDS

- 8th Emilio Fontela Research Prize** Gijón, September 2024
Awarded to the best young researcher paper presented at the 10th Spanish Conference on Input-Output Analysis for the paper *Tracking local drivers and global suppliers of urban 3-scope GHG emissions: An application to the city of Madrid, 2013-2019*

FELLOWSHIPS

- Harry Magdoff and Paul Sweezy Fellowship**
The New School for Social Research 2018 - 2021
- Fulbright Scholarship**
Fulbright Comission 2016 - 2018

LANGUAGES

English: *Full professional competency (C1)*

French: *Reading competency (B1)*

Spanish: *Native speaker*

TECHNICAL SKILLS

R programming language, LaTeX/Quarto, MS Office.

RECOMMENDATIONS

Henning Ahnert
Head of Section, Sector Accounts & Fiscal Statistics Section
European Central Bank
60640, Frankfurt am Main, Germany
Email: Henning.Ahnert@ecb.europa.eu

Anwar Shaikh
Professor Emeritus of Economics
The New School for Social Reserch
Department of Economics
6 East 16th Street, room 1124A
New York, NY 10003, United States
Email: shaikh@newschool.edu

Sergio Álvarez Gallego
Professor of Engineering and Land Morphology
Universidad Politécnica de Madrid
ETSI Caminos Canales y Puertos
Calle del Prof. Aranguren, 3,
28040, Madrid, Spain
Email: sergio.alvarez@upm.es