

# Francesco Valentini - Curriculum Vitæ

## Personal Details

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## Current Position

Postdoctoral Fellow in Econometrics (SECS/P-05) on the Project:  
"Panel data models and machine learning methods for the Green Innovators' performance evaluation"  
Tutor: Prof. Claudia Pigni  
Department of Economic and Social Sciences, Marche Polytechnic University, Ancona, Italy  
Starting date: September 1, 2022

## Research Interests

Microeconometrics, Discrete Panel Data, Time Series, Spatial Econometrics

## Past Positions

Postdoctoral Fellow in Econometrics (SECS/P-05)  
Project: "Conditional inference for discrete panel data models"  
Tutor: Prof. Claudia Pigni  
Department of Economic and Social Sciences, Marche Polytechnic University, Ancona, Italy  
June 1, 2020 - May 31, 2022

## Education

19/03/2020 - Ph.D. in Economics, Marche Polytechnic University  
Doctoral thesis: "Three Essays on the Conditional Inference Approach for Binary Panel Data Models"  
Supervisors: Prof. Francesco Bartolucci and Prof. Claudia Pigni  
24/10/2015 - Master's Degree in Economics and Finance, Marche Polytechnic University,  
110/110 magna cum laude

## Publications and Research Activities

### – *Peer-Reviewed Articles*

forthcoming - Francesco Bartolucci, Claudia Pigni and Francesco Valentini. "Testing for state dependence in the fixed-effects ordered logit model", *Economics Letters*

forthcoming - Francesco Bartolucci, Claudia Pigini and Francesco Valentini. "Conditional inference and bias reduction for partial effects estimation of fixed-effects logit models", *Empirical Economics*

2021 - Francesco Bartolucci, Francesco Valentini and Claudia Pigini. "Recursive computation of the conditional probability function of the quadratic exponential model for binary panel data", *Computational Economics*, <https://doi.org/10.1007/s10614-021-10218-2>

2021 - Chiara Casoli, Luca Pedini and Francesco Valentini. "Do Covid-19 mobility restrictions affect economic uncertainty in Italy? Evidence from a SVAR approach", *Economics Bulletin*

### – *Conference Proceedings*

2019 - Chiara Casoli, Luca Pedini and Francesco Valentini. "Spatial models in gretl: the SPM package" in *GRETl 2019. Proceedings of the International Conference on the Gnu Regression, Econometrics and Time-series Library*, DOI:10.6093/978-88-6887-057-7

### – *Books*

forthcoming - Francesco Valentini, Claudia Pigini and Francesco Bartolucci. "Advances in maximum likelihood estimation of fixed-effects binary panel data models" in *Trends and Challenges for Categorical Data Analysis*, edited by Maria Kateri and Irini Moustaki, Springer

### – *Work in Progress*

"Kernel-based Time-Varying IV estimation: handle with care" (joint with R. Lucchetti)

"MCMC Conditional Maximum Likelihood for the two-way fixed-effects logit"  
(joint with F. Bartolucci and C. Pigini)

"Monetization, wars, and the Italian fiscal multiplier"  
(joint with M. Fratianni, F.Giri and R. Lucchetti)

### – *Software Components*

cquad: Conditional Maximum Likelihood for Quadratic Exponential Models for Binary Panel Data.  
R package

Francesco Bartolucci, Claudia Pigini and Francesco Valentini. 2020  
<https://cran.r-project.org/package=cquad>

cquadr: run the cquad R package in Stata.  
STATA package

Francesco Bartolucci, Claudia Pigini and Francesco Valentini. 2020  
<https://ideas.repec.org/c/boc/bocode/s458852.html> and <https://github.com/fravale/cquadr>

ketvals: Kernel-based Time-Varying Least Squares.  
gretl Function Package

Riccardo "Jack" Lucchetti and Francesco Valentini. 2021  
[http://ricardo.ecn.wfu.edu/gretl/cgi-bin/current\\_fnfiles/ketvals.zip](http://ricardo.ecn.wfu.edu/gretl/cgi-bin/current_fnfiles/ketvals.zip)

spm: Spatial Regression Models.  
gretl Function Package

Chiara Casoli, Luca Pedini and Francesco Valentini. 2019  
[http://ricardo.ecn.wfu.edu/gretl/cgi-bin/current\\_fnfiles/spm.zip](http://ricardo.ecn.wfu.edu/gretl/cgi-bin/current_fnfiles/spm.zip)

## Refereeing Activity

Psychometrika (Theory and Methods), SN Business & Economics

## Conference/Workshop Talks

2022 - The 27th International Panel Data Conference, Bertinoro.

Presentation: *"MCMC Conditional Maximum Likelihood for the two-way fixed-effects logit"*

2022 - Challenges for Categorical Data Analysis 2022, Perugia.

Presentation: *"Dynamic Ordered Logit with Fixed-Effects: testing for state dependence"*

2022 - 3rd Italian Workshop of Econometrics and Empirical Economics, Rimini.

Presentation: *"MCMC Conditional Maximum Likelihood for the two-way fixed-effects logit"*

2021 - 9th Italian Congress of Econometrics and Empirical Economics, Cagliari [Web].

Presentation: *"Partial effects estimation for fixed-effects logit panel data models"*

2019 - 7th SIde Workshop for PhD students in Econometrics and Empirical Economics, Bertinoro.

Presentation: *"A conditional approach to testing for endogenous sample and self-selection in fixed-effects logit panel data models"*

2019 - 6th gretl Conference, Naples.

Presentation: *"Spatial models in gretl: the SPM package"*

## Teaching

2020/21 ~ 2021/2022 - Teaching assistant: "Economia Politica I" (Microeconomics), Bachelor's Degree in Economics and Business, Marche Polytechnic University

2019/20 ~ 2021/22 - Teaching assistant: "Microeconometrics" (coordinator: Prof. Matteo Picchio), Ph.D. in Economics, Marche Polytechnic University

2019/20 ~ 2021/22 - Teaching assistant: "Time Series Econometrics" (coordinator: Prof. Giulio Palomba), Ph.D. in Economics, Marche Polytechnic University

2020 ~ 2021 - Teaching assistant: "Practice sessions in R" (coordinators: Prof. Riccardo Lucchetti and Prof. Maria Cristina Recchioni) Specialization Course in Data Science for Enterprises, Istituto Adriano Olivetti, Ancona, Italy

2019/20 - Associate Lecturer (Docente a Contratto) of "Economic and Financial Time Series Analysis", Master's Degree in Finance and Quantitative Methods for Economics, Department of Economics, University of Perugia, Perugia, Italy

2016/17 ~ 2018/19 - Tutor of "Economia Politica I" (Microeconomics), Bachelor's Degree in Economics and Business, Marche Polytechnic University

## Other Experiences

02/2019 ~ 07/2019 - Visiting Ph.D. student at University of Perugia, courses attendance:

*"Gaussian Mixture Models for Model Based Clustering and Classification"*, Prof. Luca Scrucca

“Introduction to Latent Variable Models”, Prof. Francesco Bartolucci

2019 - 8th Italian Congress of Econometrics and Empirical Economics, Lecce, Italy

2018 - 1st Italian Workshop of Econometrics and Empirical Economics, Milan, Italy

## Languages

Italian: Mothertongue

English: Upper Intermediate, Cambridge First Certificate in English (B2 Level)

German: Basic, basic words and phrases only

## Computer Skills

Operating Systems: GNU/Linux, Microsoft Windows

Text Editing and Office Skills:  $\text{\LaTeX}$ , LibreOffice, Microsoft Office

Software: R, gretl, STATA, MATLAB

Last update: October 23, 2022