

Marco Forti PhD

RESEARCH FELLOW

✉ marco.f.4t@gmail.com

Research Experience

University of Rome "Sapienza"

ADVISOR: PROF. MARIA BRIGIDA FERRARO

- Research project: "New developments on clustering of text, functional and other complex data"

Rome, Italy

July 2023 - Present

University of Rome "Sapienza"

ADVISOR: PROF. ANGELO CASTALDO

- Research project: "Construction of complex datasets and Machine Learning methods for policy impact evaluation"

Rome, Italy

May 2021 - June 2023

Agenzia Nazionale per i servizi sanitari (AGENAS)

RESEARCH DEPARTMENT

- Cohort and survival analysis

Rome, Italy

2018 - 2021

University Sant'Anna

ADVISOR: PROF. STEPHAN COLLIGNON

- Research project: "European economic governance"

Pisa, Italy

April 2015 - March 2016

Teaching Experience

Fall 2023 - present	Probability and Statistics , Master's Degree Program in Biomedical Engineering - University Campus Biomedico, Faculty of Engineering	Rome, Italy
Fall 2023 - present	Probability and Statistics , Master's Degree Program in Medicine and Surgery "MedTech" - University Campus Biomedico, Faculty of Medicine	Rome, Italy
Spring 2023 - Winter 2024	Statistics , Program in Molecular Biology, Medicinal Chemistry and Computer Science for Pharmaceutical Applications - University of Rome "La Sapienza", Faculty of Pharmacy and Medicine	Rome, Italy
Fall 2022 - present	Statistics 1 , John Cabot University - Department of Mathematics, Natural, and Applied Sciences	Rome, Italy
Spring 2023	Statistics 2 , John Cabot University - Department of Mathematics, Natural, and Applied Sciences	Rome, Italy
Fall 2021	The Statistics of Data Science , Telecom Italia Mobile (TIM)	
Fall 2020	Elements of Statistics , Telecom Italia Mobile (TIM)	

Education

University of Rome "La Sapienza"

PHD STATISTICS - METHODOLOGICAL STATISTICS

- Advisor: Prof. Marco Lippi

Rome

2022

University of Rome "La Sapienza"

ADVANCED COURSES AND WORKSHOPS

- EM algorithm and ML estimation of mixture models
- Capture recapture models
- Tensor analysis
- Spatial econometrics
- Analysis of circular data
- Graphical models

Rome

2016 - 2020

University Pompeu Fabra

ADVANCED BAYESIAN TIME SERIES

- Instructor: Prof. Gary Koop

Barcelona (Spain)

2018

Istituto Superiore di Sanità

LA VALUTAZIONE DEGLI ESITI NELLA PRATICA CLINICA CORRENTE

- Instructor: Dr. Paola D'Errigo

Rome (Italy)

2018

University of Perugia (Italy)

INTERUNIVERSITY SCHOOL OF MATHEMATICS (SMI)

- Mathematical statistics
- Partial differential equations

Perugia

2017

Einaudi Institute for Economics and Finance (EIEF)

ADVANCED COURSES

- Latent variables and finite mixture models
- Topics in VAR modelling

Rome (Italy)

2013 – 2016

University of Rome "La Sapienza"

MSc ECONOMICS

- Advisor: Prof. Massimiliano Tancioni

Rome

2013

University of Rome "La Sapienza"

BSc ECONOMICS

- Advisor: Prof. Giancarlo Gandolfo

Rome

2007

Professional Experience

Sept. 2023	Senior expert , Svimez
- Dec. 2023	
Sept. 2023	Data manager , University of Rome "La Sapienza" - Faculty of Medicine
- Dec. 2023	
2021 - 2023	Monitoring committee , University of Rome "La Sapienza" - Faculty of Medicine
2022 – 2023	Expert Statistician , Deloitte consulting s.r.l.
2018 – 2021	Researcher Statistician , Agenzia Nazionale per i servizi sanitari (AGENAS)
2017 - 2018	Contract researcher , Svimez
2016-2018	Statistician , Presidenza del Consiglio dei Ministri/Invitalia
2016 - 2017	Contract analyst , KPMG international
2015 - 2016	Researcher , CER - Centro Europa Ricerche

Publications

PUBLISHED

Antonelli, M. A.; Castaldo, A.; **Forti, M.**; Marrocco, A.; Salustri, A. "Workplace accidents, economic determinants and under-reporting: An empirical analysis in Italy", International Journal of Manpower.

Barile B.; **Forti, M.**; Castaldo, A.; Marrocco, A. 2024, "Causal impact of economic subsidies on firm bankruptcy using machine learning uplift modelling" Scientific reports, <https://doi.org/10.1038/s41598-024-60348-4>

Ricci L.; Tombini M.; Savastano E.; Pulitano P.; Piccioli M.; **Forti, M.**; Narducci F.; Sancetta B.; Mecarelli O.; Ciccozzi M.; Di Lazzaro V.; Assenza G.. 2024 "Quantitative EEG analysis of Brivaracetam in drug-resistant epilepsy: A pharmaco-EEG study", Clinical Neurophysiology, DOI: 10.1016/j.clinph.2024.04.023

Forti, M.; Castaldo, A.; Marrocco, A. 2023. "Modelli a mistura finita per la valutazione delle politiche pubbliche: studio sui Bandi ISI-INAIL", Capitolo in "È possibile incentivare la sicurezza sui luoghi di lavoro? Evidenze e approcci sulla valutazione di efficacia", ed. G. Giappichelli, ISBN 9791221105001. - (2023), pp. 173-184

- Forti, M.**; Castaldo, A.; Marrocco, A. 2023. "Valutazione d'impatto della politica ISI-INAIL sulla sopravvivenza delle imprese", Capitolo in "È possibile incentivare la sicurezza sui luoghi di lavoro? Evidenze e approcci sulla valutazione di efficacia", ed. G. Giappichelli, ISBN 979-12-211-0500-1. - (2023), pp. 185-209
- Antonelli, M. A.; Castaldo, A.; **Forti, M.**; Marrocco, A.; Salustri, A. 2024. "An alternative approach to understanding occupational safety and health (OSH): an empirical insurance cost perspective in Italy", *Applied economics letter*, ISSN 1350-4851. - (2024), pp. 1-8. DOI: <https://doi.org/10.1080/13504851.2024.2308564>
- Castaldo, A.; Daddi, S.; **Forti, M.**; Marrocco, A.; Antonelli, M. A.; Germani, A. R.; 2023. "Le politiche di sostegno agli investimenti in SSL influiscono sulla produttività delle imprese?" Chapter inside the volume: "È possibile incentivare la sicurezza sui luoghi di lavoro? Evidenze e approcci sulla valutazione di efficacia" - ISBN 979-12-211-0500-1, pp. 213-236 - G. Giappichelli Editore s.r.l.
- Antonelli, M. A.; **Forti, M.**; Salustri, A., Marrocco, A. 2023. "Un'analisi economico-territoriale esplorativa della sicurezza sul lavoro in Italia" Chapter inside the volume: "È possibile incentivare la sicurezza sui luoghi di lavoro? Concezione, contesto e implementazione dei Bandi ISI Inail" - ISBN 9791221101294, G. Giappichelli Editore s.r.l.
- Castaldo, A.; Germani, A. R.; **Forti, M.**; Salustri, A., Marrocco, A. 2023. "Le determinanti degli infortuni sul lavoro: un'analisi sull'eterogeneità a livello europeo" Chapter inside the volume: "È possibile incentivare la sicurezza sui luoghi di lavoro? Concezione, contesto e implementazione dei Bandi ISI Inail" - ISBN 9791221101294, pp. 177-196 - G. Giappichelli Editore s.r.l.
- Antonelli, M. A.; **Forti, M.**; Salustri, A., Marrocco, A. 2023. "Gli infortuni sul lavoro in Italia: un'analisi empirica a livello regionale" Chapter inside the volume: "È possibile incentivare la sicurezza sui luoghi di lavoro? Concezione, contesto e implementazione dei Bandi ISI Inail" - ISBN 9791221101294, G. Giappichelli Editore s.r.l.
- Castaldo, A., Germani A. R., **Forti, M.**, Salustri, A., Marrocco, A. 2023. "Drivers and frictions of workplace accidents: an empirical investigation of cross-country European heterogeneity" *Applied economics* - ISSN 0003-6846, pp. 1-16. [DOI: 10.1080/00036846.2023.2203458]
- Antonelli, M. A., **Forti, M.**, Salustri, A., Marrocco, A. 2023. "Accidents at work in Italy: an empirical analysis at the regional level.", *Public Finance Research Papers*, n. 60 – Institute of Economics and Finance, Department of Juridical and Economic Studies, Sapienza University of Rome, <https://www.dsge.uniroma1.it/sites/default/files/pubblicazioni/economia/e-pfrp60.pdf>
- Castaldo, A., Germani, A. R., Marrocco, A. **Forti, M.**. 2022. "Drivers and frictions of workplace accidents: an empirical investigation of cross-country European heterogeneity.", *Public Finance Research Papers*, n. 55 – Institute of Economics and Finance, Department of Juridical and Economic Studies, Sapienza University of Rome, <https://www.dsge.uniroma1.it/sites/default/files/pubblicazioni/economia/e-pfrp55.pdf>
- Forti M.**. 2022. "Dynamic Factor Models: improvements and applications". PhD Thesis: <http://hdl.handle.net/11573/1613357>.
- Barili F., D'Errigo P., Rosato S., Biancari F., **Forti M.**, Pagano E., Baglio G., Badoni G., Parolari A., Seccareccia F. 2022. "Ten-year outcomes after off-pump and on-pump coronary artery bypass grafting: an inverse probability of treatment weighting comparative study" - *Journal of cardiovascular medicine* (DOI: 10.2459/jcm.0000000000001323, PMID: 35645027).
- Castaldo, A., Germani, A. R., Marrocco, A. **Forti, M.**. 2022. "La sicurezza sul lavoro in Italia: un'analisi esplorativa.", *Public Finance Research Papers*, n. 56 – Institute of Economics and Finance, Department of Juridical and Economic Studies, Sapienza University of Rome, <https://www.dsge.uniroma1.it/sites/default/files/pubblicazioni/economia/e-pfrp56.pdf>
- Cerza F., Cicala S. D., Bernardini F., **Forti, M.**, Guglielmi E., Fortino A., Mantoan D., Baglio G.. 2022. "Relationship between hospital volumes and health outcomes: epidemiological evidence supporting the revision process of the Ministry of Health Decree no. 70 of 2 April 2015, *Recenti Progressi in Medicina* - 2022;113(2):114-122, DOI 10.1701/3748.37315
- Barili F., D'Errigo P., Rosato S., Biancari F., **Forti M.**, Pagano E., Baglio G., Badoni G., Parolari A., Seccareccia F. 2021. "Impact of gender on 10-Year outcomes after coronary artery bypass grafting, *Interactive CardioVascular and Thoracic Surgery* – EURHEARTJ-D-20-05281, doi:10.1093/icvts/ivab125
- Barili F., D'Errigo P., Rosato S., Biancari F., **Forti M.**, Evangelista A., D'Ovidio M., Parolari A., Gellini M., Borsellino L. Grossi C. Rosato F. Parolari A. Seccareccia F. 2021. "PRedlct long term Outcomes after Isolated coronary artery bypass surgery" Software: <https://www.outcomeresearch.it/PRIORITY/>
- Baglio G., Cerza F., Cicala S. D., Cuomo M., **Forti M.**, Giordani B., Mencancini C., Sferrazza A., D'Errigo P., Donati S., Manno V., Maraschini A., Rosato S., Seccareccia F. National Program of Evaluation (2021) - the complete set of statistics and indicators published in: <https://pne.agenas.it/>

Barili F., D'Errigo P., Rosato S., Biancari F., **Forti M.**, Evangelista A., D'Ovidio M., Parolari A., Gellini M., Borsellino L. Grossi C. Rosato F. Parolari A. Seccareccia F. 2021. "Lo studio PRIORITY – "Predicting long-term outcomes after isolated coronary artery bypass surgery" – Giornale Italiano di Cardiologia (2021 Vol. 22 N. 1 Gennaio - ISSN:1827-6806)

Basiglioni A., Cerza F., Cicala S. D., Cuomo M., **Forti M.**, Giordani B., Mencancini C., Sferrazza A., D'Errigo P., Donati S., Francisci S., Manno V., Maraschini A., Pierannunzio D., Rosato S., Seccareccia F. 2020. "Indicatori PNE: ieri, oggi e domani" – MONITOR - ISSN:2282-5975 vol. 1/2020

Baglio G., Cerza F., Cicala S. D., Cuomo M., **Forti M.**, Giordani B., Mencancini C., Sferrazza A., D'Errigo P., Donati S., Manno V., Maraschini A., Rosato S., Seccareccia F. National Program of Evaluation (2020) - the complete set of statistics and indicators published in: <https://pne.agenas.it/>

Rosano, A., Basiglioni A., Cerza F., Cicala S. D., Cuomo M., **Forti M.**, Giordani B., Mencancini C., Sferrazza A., D'Errigo P., Donati S., Manno V., Maraschini A., Rosato S., Seccareccia F. National Program of Evaluation (2019) - the complete set of statistics and indicators published in: <https://pne.agenas.it/>

Forti M.. 2018. "Redditi, povertà e disuguaglianze tra crisi e ripresa produttiva". Il mulino - Chap. 6. ISBN: 978-88-15-27989-7

Forti M.. 2017. "Disuguaglianza e povertà: dal Reddito di Inclusione al Reddito di Cittadinanza". Il mulino - Chap. 6. ISBN: 9788815273543

IN COURSE OF PUBLICATION

Giordani, P. **Forti, M.**; Ferraro, M. B.; "FKML0: a Matlab routine for sparse fuzzy clustering", accepted for presentation at the IEEE World Congress on Computational Intelligence (IEEE WCCI 2024), Yokohama, Japan (2024).

Forti, M.; Ferraro, M. B.; Giordani, P. "L0-penalized membership in sparse fuzzy clustering", accepted for presentation at SIS conference, Bari, Italy (2024).

IN REVIEW

Fuzzy clustering with L_0 regularization, Annals of Operations Research

Cancelling cancellations: Application of a machine learning approach for forecasting hotel booking cancellations

IN PREP

Finite mixture models for workplace injuries policy evaluation

The indirect impact of ISI policy: an evaluation of firm's survival rate.

The effect of ISI policy on Total Factor Productivity.

Awards, Fellowships, & Grants

2020 **Commendation - For the "competence and the professionalism expressed" in the sphere of the activities that brought to the publication of 2019 edition of National Program of Evaluation (Programma Nazionale Esiti), AGENAS**

2014 **Particolarmente meritevole - For the Mortara scholarship aimed to pursue the studies in Mathematics, Statistics and Econometrics, Bank of Italy**

Presentations and events

CONTRIBUTED PRESENTATIONS

Castaldo A., Germani A. R., Marrocco A., **Forti M.** 2021. "Drivers and Frictions of Occupational Accidents: an Empirical Investigation on European and Italian Territorial Heterogeneity" – AISRE XLII Annual conference

Forti M., Cerza F., Cicala S. D., D'Errigo P., Rosato S., Manno V. 2020. "Trends in mortality and heart failure after acute myocardial infarction in Italy from 2007 to 2017" – Poster exposed at 16th World congress on Public Health

Forti M., Cerza F., Cicala S. D., D'Errigo P., Rosato S., Manno V. 2020. "Bilateral internal thoracic artery grafting in coronary surgery: 10-year outcomes" – Poster exposed at 16th World congress on Public Health

Forti M., Cerza F., Cicala S. D., D'Errigo P., Rosato S., Manno V. 2020. "Health performance evaluation of the Italian hospital care system" – Poster exposed at 16th World congress on Public Health

Forti M., Cerza F., Cicala S. D., D'Errigo P., Rosato S., Manno V. 2020. "Hospital management of patients with acute coronary syndrome: influence of age and gender" – Poster exposed at 16th World congress on Public Health

ORGANISED EVENTS

May 2023 - Un nuovo policy mix per la Salute e Sicurezza del Lavoro: l'evoluzione del quadro giuridico e le iniziative di sostegno agli investimenti - Convegno organizzato nell'ambito delle attività di disseminazione del Progetto INAIL Bric 2019

Io sottoscritto Marco Forti, autorizzo al trattamento dei dati personali.
June 26, 2024