Federica Onori, PHD

Doctor in Statistics with 6+ years of working experience in data modelling and quantitative analysis in international organisations (European Commission, World Bank group, UNFAO) and research institutions (Sapienza University of Rome, Roma Tre University, Technical University of Munich).

Currently working as **Statistical Assistant** at the **European Commission** (DG TRADE.A3, Chief Economist, Trade Analysis and Evaluation).

Proactive and solution-oriented, I am in the process of enlarging my knowledge and competences also in the **Economic field**.

Ph.D Thesis title: "Official Statistics and Sustainable Development Goals (SDGs): statistical tools for handling complexity and comparability across countries"

Nov 2021 - Present

Statistical assistant at EUROPEAN COMMISSION, Bruxelles

Statistical Assistant in the Statistics Sector of DG TRADE.A3 (Chief Economist, Trade Analysis and Evaluation)

- **Compilation of trade-related statistics** in collaboration with data providers (mainly Eurostat), IT experts and clients.
- Analysis of trade policy issues (Network Analysis, Impact Assessment Analysis, etc...).

Jun 2017 - Aug 2021

Short Term Consultant at WORLD BANK GROUP

[37 MONTHS]

Consultant to the staff of International Finance Corporation (IFC)

- Psychometric data analysis of indicators related to Food Security, Consumption, Economic Status and Coping Strategies.
- Software used: R.

APR 2021 - JULY 2021

Traineeship at EUROPEAN COMMISSION, Bruxelles

[4 MONTHS]

Trainee at SANTE.DDG2.D.3 (International Bilateral Relations)

- Food Safety and Sustainable Food System (SFS), in particular Sanitary and Phytosanitary matters with Latin American countries.
- · Implementation of the Farm to Fork strategy.

FEB 2018 - SEP 2019

Teaching assistant at ROMA TRE UNIVERSITY, Rome

[16 MONTHS]

Teaching assistant in Statistics for the following courses:

- Spring 2019, Bachelor Degree in Political Sciences
- SPRING 2018, Bachelor Degree in Economics

Nov 2017 - Mar 2021

Ph.D Student Researcher at SAPIENZA UNIVERSITY OF ROME, Rome

[41 MONTHS]

Ph.D Student Researcher in Methodological Statistics

- **Research activity** in the statistical field: *Graphical models, Bayesian Networks, Latent variable models, Item Response Theory.*
- Peer-reviewed publications in scientific journals and presentations in international conferences.

DEC 2016 - APR 2017

Internship at FOOD AND AGRICULTURE ORGANIZATION (FAO), Rome

[5 MONTHS]

Intern at the UN FAO Statistics Division

- Psychometric data analysis of the Food Insecurity Experience Scale.
- Data handling and validation.
- Software used: R.

DEC 2014-JAN 2015 | Junior Consultant at GIANO SOLUTION s.r.l., Rome

[2 MONTH]

Business Intelligence (BI) Junior Consultant

- Designing applications for statistical analysis and data visualization tools meant to be fully operative on the internal databases of the clients.
- Software used: QlikView.

EDUCATION

2017 - 2021

Ph.D. in Methodological Statistics

SAPIENZA UNIVERSITY OF ROME, Rome, Italy

Grade: Very Good

Thesis title: "Official Statistics and Sustainable Development Goals (SDGs): statistical tools for handling complexity and comparability across countries"

2020

Visiting Ph.D Research period TECHNICAL UNIVERSITY OF MUNICH, Munich, Germany

2017

Master of Science in Bayesian Statistics and Decision Sciences

(DOUBLE DEGREE PROGRAM)

SAPIENZA UNIVERSITY OF ROME, Rome

110/110 cum laude

Master of Science in Mathématiques Appliquées parcours MASH

(MATHÉMATIQUES, APPRENTISSAGE ET SCIENCES HUMAINES),

UNIVERSITÉ PARIS DAUPHINE, Paris, France

Mention: Bien

2011

Bachelor Degree in Mathematics SAPIENZA UNIVERSITY OF ROME, Rome

108/110

PUBLICATIONS & CONFERENCE PAPERS

2021 Onori F., Viviani S., Brutti P.;

Towards global monitoring: equating the Food Insecurity Experience Scale (FIES) and food insecurity scales in Latin America,

To appear in "Models for Data Analysis. Selected papers of 49th Meeting of Italian Statistical Society". arXiv:stat.AP/2102.10005 (2021)

Onori F., Dhillon P., Dinachandra K., Jaleel A., Saraswat A., Reshmi R. S., Unisa S., Sethi V.

An adaptation of the Food Insecurity Experience Scale (FIES) for Measuring

Food Insecurity among Women in Socially Backward Communities,
In: "Asian Journal of Agriculture and Development (2021)", https://doi.org/10.37801/ajad2021.18.1.5.

2020 Onori F., Jona Lasinio G.

Modeling "Equitable and Sustainable Well-Being" (BES) using Bayesian Networks: A case study of the Italian Regions.

In: "Soc Indic Res (2020)", https://doi.org/10.1007/s11205-020-02406-8.

Amendola C., Dettling P., Drton M., Onori F. and Wu J.,
Structure Learning for Cyclic Linear Causal Models,
In: "Uncertainty in Artificial Intelligence (UAI 2020)". arXiv:stat.ML/2006.05978 (2020)

2018 **Onori F.**, Viviani S., Brutti P.; Equating experience-based food insecurity scales

In: SIS2018 Proceedings. ISBN-9788891910233, Palermo, 20-22/06/2018

SCHOOLS

2-6 MAY 2022 ROBUST STATISTICS: FOUNDATIONS AND RECENT DEVELOPMENTS

University of Milano-Bicocca,

Como (Italy)

23-25 OCTOBER 2019 GRAPHICAL MODELS: CONDITIONAL INDEPENDENCE AND ALGEBRAIC STRUCTURES

Technical University of Munich,

Munich (Germany)

1-5 July 2019 Feature Subset Selection

Madrid UPM Advanced Statistics and Data Mining Summer School,

Universidad Politécnica de Madrid

Madrid (Spain)

1-5 July 2019 Unsupervised Pattern Recognition

Madrid UPM Advanced Statistics and Data Mining Summer School,

Universidad Politécnica de Madrid

Madrid (Spain)

24-28 June 2019 Bayesian Demography

Applied Bayesian Statistics Summer School,

Consiglio Nazionale delle Ricerche C.N.R. and Cattolica University,

Como (Italy)

7-10 MAY 2019 METHODS FOR CONSTRUCTING SYNTHETIC INDICATORS: THEORY AND PRACTICE

School of the Italian Statistical Society (SIS), Consiglio Nazionale delle Ricerche C.N.R.,

Rome (Italy)

18-22 FEBRUARY 2019 THEORY AND PRACTICE ON RANDOM EFFECT MODELS

FOR MULTILEVEL AND LONGITUDINAL DATA, School of the Italian Statistical Society (SIS),

University of Florence,

Florence (Italy)

20-21 NOVEMBER 2018 WORKSHOP ON UNCERTAINTY AND COMPLEXITY OF MIGRATION,

Part of the ERC project on Bayesian Agent-Based Population Studies, Centre for Population Change (CPC) and University of Southampton,

London (United Kingdom)

JULY 2018 SUMMER SCHOOL, SMI, Scuola Matematica Interuniversitaria.

Course on High Dimensional Probability For Mathematicians

and Data Scientists Cortona (Italy)

TALKS

AUGUST 3-6, 2020	Conference on Uncertainty in Artificial Intelligence (UAI2020), Toronto, virtual online. Title of the talk: Structure Learning for Cyclic Linear Causal Models
July 22–26, 2019	32nd Scientific Meeting of the European Meeting of Statisticians (EMS), Palermo, Italy. Title of the talk: Experience-based food insecurity scales, a non-aggregative approach to synthesis of indicators.
MAY 23 -24, 2019	56th Scientific Meeting of the Italian Society of Economy, Demography and Statistics (SIEDS), Ascoli Piceno, Italy. Title of the talk: Modeling Equitable and Sustainable Well-Being (Bes) using Bayesian Networks: a case study of the Italian Regions.
June 20 -22, 2018	49th Scientific Meeting of the Italian Statistical Society (SIS), Palermo, Italy. Title of the talk: Equating experience-based food insecurity scales.

GRANTS, AWARDS & SCHOLARSHIPS

2019	Research Grant for Junior Researcher "Avvio alla Ricerca", University of Rome La Sapienza
2017	Phd Scholarship, Sapienza University of Rome (3 years full coverage)
2015	International Program fellowship, Sapienza University of Rome
2011	Erasmus Program scholarship, University of Rome
2009-10-11	Best Student scholarship, Sapienza University of Rome

LANGUAGES

ITALIAN:	Native speaker
ENGLISH:	Fluent (Cambridge CAE, C1)
SPANISH:	Advanced (assessed level C1.1.1 on the EU Learning Language portal the European Commission)
FRENCH:	Advanced (assessed level C1.1.1 on the EU Learning Language portal the European Commission)

COMPUTER SKILLS

Languages and Softwares:	R, Stata, Python, Matlab, C++, WinBugs, Microsoft Office, ETEX
	Mathematica, QlikView, SAS (certified), NetLogo, Julia (certified)
Operating Systems:	MICROSOFT WINDOWS, UNIX, OS

CERTIFICATES

2020	Machine Learning Using SAS Viya. SAS Institute
2018	SAS Predictive Modeller using SAS Enterprise Miner. SAS Institute
2018	Julia Scientific Programming by University of Cape Town on Coursera
2015	Certificate in Advanced English (CAE) - Cambridge ESOL Level C1
2002	Certificate in French language "DELF scholaire A1-A2"

EDITORIAL ACTIVITIES

Referee for: Social Indicators Research, Socio-Economic Planning Sciences, Frontiers in Forests and Global Change.

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