



Gaia Bertarelli



WORK EXPERIENCE

[15/02/2023 – Current]

Senior Assistant Professor (RTDB) in Social Statistics

Department of Economics, Ca' Foscari University of Venice

City: Venice | Country: Italy

[01/03/2021 – 14/02/2022]

Junior Assistant Professor (RTDA) in Social Statistics

Dept. of Economics and Management in the Era of Data Science, Sant'Anna School of Advanced Studies

City: Pisa | Country: Italy

[12/02/2018 – 11/02/2021]

Research fellow in Statistics

Department of Economics & Management, University of Pisa

City: Pisa | Country: Italy

[01/02/2017 – 31/01/2018]

Research fellow in Statistics

Department of Economics, University of Perugia

City: Perugia | Country: Italy

EDUCATION AND TRAINING

[01/10/2012 – 15/12/2015]

PhD in Statistics

University of Milano Bicocca <https://www.unimib.it/>

City: Milan | Country: Italy | Level in EQF: EQF level 8

[01/11/2008 – 24/03/2011]

Master's degree in Biostatistics and Experimental Statistics

University of Milano <https://www.unimib.it/>

City: Milan | Country: Italy | Level in EQF: EQF level 7

[01/10/2004 – 15/12/2008]

Bachelor's degree in Mathematics

University of Milano Bicocca <https://www.unimib.it/>

City: Milano | Country: Italy | Level in EQF: EQF level 6

PROJECTS

[01/01/2024 – Current]

A Multisectoral Approach to Adaptation and Mitigation of Adverse Effects of Vector-Borne Diseases, Environmental Pollution and Climate Change on Planetary Health (PLANET4HEALTH)

Institution: Ca'Foscari University of Venice (co-PI).

Founded by Horizon Europe – the Framework Programme for Research and Innovation 2021-2027, CUP - H73C23001150006

<https://planet4health.eu/>

[01/01/2022 – 11/02/2023]

E3 for Health: Data-driven Elicitation, Explanation, and Enhancement of Healthcare systems

Institution: Sant'Anna School of Advanced Studies.

Founded by PRO3 program ex DM 289/2021.

[01/03/2021 – 11/02/2023]

An intersectoral innovative solution involving DIGItal tools, empowering families and integrating community CARE services for the prevention and management of type 2 diabetes and hypertension (DigiCare4YOU)

Institution: Sant'Anna School of Advanced Studies.

Founded by the European Union's Horizon 2020 research and innovation programme under grant agreement N. 945246.

<https://digicare4you.eu/>

[01/05/2017 – 30/11/2021]

Integrating Research Infrastructure for European expertise on Inclusive Growth from data to policy. Data integration, new indicators and small area estimation of poverty and living conditions measures (INGRID-2)

Institution: University of Pisa.

Founded from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730998.

<https://www.inclusivegrowth.eu/>

[01/11/2017 – 31/10/2020]

MAKing Sustainable development and WELL-being frameworks work for policy analysis (MAKSWELL)

Institution: University of Pisa.

Founded by the European Union's Horizon 2020 research and innovation programme under grant agreement N. 770643.

<https://www.makswell.eu/>

PUBLICATIONS

[2024]

[The local distribution of in-work poverty and sectoral employment: an analysis of local dynamics in Italy.](#)

Tonutti, G., Garnero, A., Bertarelli, G. *et al.* The local distribution of in-work poverty and sectoral employment: an analysis of local dynamics in Italy. *Stat Methods Appl* **33**, 973–998 (2024). <https://doi.org/10.1007/s10260-024-00756-y>

- [2024] [**Addressing chronic diseases: a comparative study of policies towards type-2 diabetes and hypertension in selected European countries.**](#)
- Chiara Seghieri, Francesca Ferré, Costanza Tortù, Gaia Bertarelli, Christina Mavrogianni, Natalya Usheva, Florian Toti, Luis Moreno, Eirini Agapidaki, Yannis Manios, Addressing chronic diseases: a comparative study of policies towards type-2 diabetes and hypertension in selected European countries, *European Journal of Public Health*, Volume 34, Issue 4, August 2024, Pages 781–786
- [2024] [**The impact of local cost-of-living differences on relative poverty incidence: an application using retail scanner data and small area estimation models.**](#)
- Marchetti, S., Giusti, C., Schirripa Spagnolo, F. *et al.* The impact of local cost-of-living differences on relative poverty incidence: an application using retail scanner data and small area estimation models. *Stat Methods Appl* **33**, 1117–1143 (2024). <https://doi.org/10.1007/s10260-023-00742-w>
- [2024] [**Promoting healthy eating in childhood: results from the COcONUT \(Children PrOmOting Nutrition throUgh Theatre\) project.**](#)
- Gianfredi V, Bertarelli G, Minelli L, Nucci D. Promoting healthy eating in childhood: results from the Children PrOmOting Nutrition throUgh Theatre (COcONUT) project. *Minerva Pediatrics*. 2024 Aug;76(4):464-472. DOI: 10.23736/s2724-5276.21.06249-2. PMID: 33861050.
- [2023] [**Tracking the Digital Health Gap in Elderly: a study in Italian remote areas.**](#)
- Vainieri, M., Vandelli, A., Benvenuti, S. C., Bertarelli, G. (2023). Tracking the digital health gap in elderly: a study in Italian remote areas. *Health policy*, 133, 104842.
- [2023] [**Is it all about trust? Elderly people's propensity to digital technology in health care: a case study from Italy.**](#)
- Vandelli, A., Bertarelli, G., & Vainieri, M. (2023). Is it all about trust? Elderly people's propensity to digital technology in health care: a case study from Italy. In *XL convegno nazionale. L'azienalismo crea valore! Il ruolo dell'accademia nelle sfide della società, dell'economia, delle istituzioni*. Università degli Studi di Salerno.
- [2023] [**Effectiveness, reach, uptake, and feasibility of digital health interventions for adults with type 2 diabetes: a systematic review and meta-analysis of randomised controlled trials.**](#)
- Moschonis, G., Siopis, G., Jung, J., Eweka, E., Willems, R., Kwasnicka, D., ... & Bruka, L. (2023). Effectiveness, reach, uptake, and feasibility of digital health interventions for adults with type 2 diabetes: a systematic review and meta-analysis of randomised controlled trials. *The Lancet Digital Health*, 5(3), e125-e143.
- [2022] [**Disaggregation of poverty indicators by Small Area Methods for assessing the targeting of the "Reddito di cittadinanza" national policy in Italy.**](#)
- Tonutti, G., Bertarelli, G., Giusti, C., & Pratesi, M. (2022). Disaggregation of poverty indicators by small area methods for assessing the targeting of the "Reddito di Cittadinanza" national policy in Italy. *Socio-Economic Planning Sciences*, 82, 101327.
- [2022] [**TB Hackathon: Development and Comparison of Five Models to Predict Subnational Tuberculosis Prevalence in Pakistan.**](#)

Alba, Sandra, Ente Rood, Fulvia Mecatti, Jennifer M. Ross, Peter J. Dodd, Stewart Chang, Matthys Potgieter, Gaia Bertarelli, Nathaniel J. Henry, Kate E. LeGrand, and et al. 2022. "TB Hackathon: Development and Comparison of Five Models to Predict Subnational Tuberculosis Prevalence in Pakistan" *Tropical Medicine and Infectious Disease* 7, no. 1: 13. <https://doi.org/10.3390/tropicalmed7010013>

[2021] [**Spatial Distribution of Multidimensional Educational Poverty in Italy using Small Area Estimation.**](#)

Pratesi, M., Quattrocioni, L., Bertarelli, G. *et al.* Spatial Distribution of Multidimensional Educational Poverty in Italy using Small Area Estimation. *Soc Indic Res* **156**, 563–586 (2021). <https://doi.org/10.1007/s11205-020-02328-5>

[2021] [**Outlier robust small domain estimation via bias correction and robust bootstrapping.**](#)

Bertarelli, G., Chambers, R. & Salvati, N. Outlier robust small domain estimation via bias correction and robust bootstrapping. *Stat Methods Appl* **30**, 331–357 (2021). <https://doi.org/10.1007/s10260-020-00514-w>

CONFERENCES AND SEMINARS

[08/07/2024 – 10/07/2024] **CANSSI-CRT Workshop on Modern Methods in Survey Sampling** Ottawa (Canada)

Inference for Big Data Assisted by Small Area Methods: An Application on SDGs Sensitivity of Enterprises in Italy.

Invited Talk.

Link: <https://canssi.ca/events/workshop-survey-sampling/>

[05/08/2023 – 10/08/2023] **Joint Statistical Meeting (JSM 2023)** Toronto (Canada)

A Robust Nested Error Regression Model with High Dimensional Parameter for Discrete Outcomes in Unplanned Domain Prediction.

Invited Talk.

[17/12/2022 – 19/12/2022] **15th International Conference on Computational and Methodological Statistics (ERCIM - CMStatistics 2022)**
London (UK)

Small Area Estimation of Educational Poverty with latent variable model.

Invited Talk.

[12/06/2022 – 14/06/2022] **Empirical Health Economics Workshop.** JRC Varese

Network analysis of patient mobility in the Italian NHS.

Contributed Talk.

[13/08/2019 – 16/08/2019] **Conference in Current Trends in Survey Statistics 2019** Singapore

A Hierarchical Bayesian Approach for Addressing Multiple Objectives in Poverty Research for Small Areas.

Invited Talk.

NETWORKS AND MEMBERSHIPS

[01/05/2024 – Current] **Next Generation EU - “Age-It - Ageing well in an ageing society” project (PE0000015), National Recovery and Resilience Plan (NRRP) - PE8 - Mission 4, C2, Intervention 1.3”**

AGE-IT Fellow.

[01/01/2024 – Current] **SIS S2G - Survey Sampling Methodology group of the Italian Statistical Society**

Elected member of the board.

[01/01/2017 – Current] **IASS - International Association of Survey Statistician**

From 1 Jan 2024: Editor of the Book and Software Review Section of The Survey Statistician (the journal of the IASS).

[01/01/2019 – 31/12/2020] **Young SIS - Young statistician (under 35) group of the Italian Statistical Society**

Elected member of the board (2019) and national coordinator (2020).

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING B1 READING B1 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

INFORMATION AVAILABLE ONLINE

Googlo Scholar Profile

[Google Scholar](#)

ORCID

[ORCID: 0000-0002-1099-530X](#)

SCOPUS

[Author ID: 57193727533](#)

WoS

[Researcher ID: AAA-3128-2020](#)

I hereby declare that the details furnished above are true and correct

Venice, 21/10/2024

Gaia Bertarelli