

Riccardo Omenti

☎ +39 327 583 5267 | @ riccardo.omenti@studio.unibo.it |  LinkedIn |  GitHub |  Web | 📍 Bologna, Italy

PERSONAL DATA

Date of Birth: May 21, 1997

Citizenship: Italian

ACADEMIC POSITIONS

Research Fellow in Demography

Department of Statistical Sciences P. Fortunati, University of Bologna

Project on “AI Penetration in Society from a Demographic Lens”

Bologna, Italy

Dec 2024 –

EDUCATION

Ph.D. in Statistics

Department of Statistical Sciences P. Fortunati, University of Bologna

Bologna, Italy

Nov 2021 – Apr 2025

Dissertation: “Blank Space: Demographic Estimation in Data-sparse Contexts”

Advisor: Prof. Nicola Barban

Co-advisor: Prof. Monica Alexander

M.Sc. in Statistics (Distinction)

Department of Statistical Sciences P. Fortunati, University of Bologna

Bologna, Italy

Sep 2019 – July 2021

B.A. in Statistics (Distinction)

Department of Statistical Sciences P. Fortunati, University of Bologna

Bologna, Italy

Sep 2016 – July 2019

RESEARCH INTERESTS

Statistical and formal demography, Bayesian statistics, artificial intelligence and inequalities, mortality, fertility, digital demography, big data, large language models in research, demographic processes in historical populations

VISITING POSITIONS

Department of Statistical Sciences, University of Toronto

Visiting Scholar

Research Group on Bayesian Demography

Advisor: Prof. Monica Alexander

Toronto, Canada

Sep 2023 – Dec 2023

Max Planck Institute for Demographic Research (MPIDR)

Visiting Scholar

Independent Research Group on Kinship Inequalities

Advisor: Dr. Diego Alburez-Gutierrez

Rostock, Germany

Jan 2023 – Apr 2023

University of California Santa Barbara (UCSB)

Exchange Student

Department of Statistics and Applied Probability

Isla Vista, California (US)

Sep 2018 – Apr 2019

PAST POSITIONS

Local Public Health Authority of Bologna (Azienda USL di Bologna)

Statistical Analyst

Department of Epidemiology

Bologna, Italy

July 2020 – Sep 2021

PEER-REVIEWED PUBLICATIONS

Omenti, R., Alexander, M., and Barban, N. (2026). “[Bayesian Indirect Estimation of Historical Fertility in Europe and US Using Online Genealogical Data](#)”. *Sociological Methods & Research*. Advance online publication. [[paper](#)][[replication](#)]

Colasurdo, A., and **Omenti, R.**[†] (2024). “[Using Online Genealogical Data for Demographic Research: An Empirical Examination of the FamiLinx Database](#)”, *Demographic Research*, 51(41): 1299–1350. [[paper](#)][[replication](#)]

[†]Equal co-authorship

PEER-REVIEWED CONTRIBUTED VOLUMES

Omenti, R. (2024). “[Un futuro senza più figli](#)” (“A Future without Children”), Chapter 4 in *Fantascienza e demografia*, pp. 34-36, edited by A. Fornasin, and F. Scalone, Firenze, Neodemos. [[chapter](#)]

WORKING PAPERS

“[A Bayesian Model to Estimate Male and Female Fertility Patterns at a Subnational Level](#)” (with Monica Alexander and Nicola Barban) (*Revised and Resubmitted at Demography*)[[working paper](#)][[replication](#)]

RESEARCH IN PROGRESS

“Exploring Subnational Patterns in Male and Female Fertility across Different Stages of the Demographic Transition” (with Monica Alexander and Nicola Barban) (Invited chapter for the forthcoming *Social Demography Handbook*, edited by Robert Schoen)

“Who Benefits and Who Is Replaced? Demographic Patterns of Generative AI Exposure in the United States” (with Nicola Barban, Saverio Minardi and Maria Ludovica Isani)

“Penetration of Generative Artificial Intelligence in Europe: Demographic and Spatial Heterogeneities” (with Nicola Barban, Saverio Minardi and Maria Ludovica Isani)

“Indirect Fertility Estimates in Historical Italy: a Bayesian Approach” (with Nicola Barban and Michail Raftakis)

TEACHING EXPERIENCE

University of Bologna

- Teaching Assistant for the course *Big Data in Social Sciences*, BSc in Economics, Politics and Social Sciences, Department of Economics. (40 hrs) [Academic year: 2024-2025; 2025-2026]
- Teaching Assistant for the course *Fundamental Concepts of Statistics*, MSc in Statistics, Department of Statistical Sciences. (20 hrs) [Academic years: 2023-2024; 2024-2025; 2025-2026]
- Teaching Assistant for the course *Biostatistics*, BSc in Statistics (curr. Stats & Maths), Department of Statistical Sciences. (10 hrs) [Academic years: 2020-2021; 2021-2022; 2022-2023; 2023-2024; 2024-2025]
- Guest lecture: “Introduzione a tidyverse per la gestione e l’Analisi dei Dati in R” (in Italian), BSc in Statistics, Finance & Insurance, Department of Statistical Sciences. (2 hrs) [Academic year: 2023-2024]
- Teaching Assistant for the course *Longitudinal and Time-to-Event Data Analysis*, MSc in Statistics, Department of Statistical Sciences. (10 hrs) [Academic years: 2021-2022]
- Tutor in Statistics and Probability for students with special needs. (60 hrs) [Academic years: 2019-2020]

Italian Society of Historical Demography

- Instructor for the course *Basic Course in R for Historical Demography*. (2 hrs) [June 2023]

CONFERENCES

“Statistical Demography: Advances in Forecasting”

- Session (Discussant), *Population Association of America*, Washington DC (US), Apr 2025.

“Penetration of Generative Artificial Intelligence in Europe: demographic and spatial heterogeneities”

- Session (Presenter), *53rd SIS Scientific Meeting*, Roma (Italy), June 2026.

“Who Benefits and Who Is Replaced? Demographic Patterns of Generative AI Exposure in the United States”

- Session (Co-author), *53rd SIS Scientific Meeting*, Roma (Italy), June 2026.
- Session (Presenter), *European Population Conference*, Bologna (Italy), June 2026.
- Session (Presenter), *Conference of the Italian Society of Economic Sociology (SISEC)*, Firenze (Italy), January 2026.

“Indirect Fertility Estimates in Historical Italy: a Bayesian Approach”

- Session (Co-author), *European Population Conference*, Bologna (Italy), June 2025.
- Session (Presenter), *Conference Of The European Society Of Historical Demography*, Bologna (Italy), Sep 2025.

“A Bayesian Model to Estimate Male and Female Fertility Patterns at a Subnational Level”

- Session (Presenter), *International Population Conference*, Brisbane (Australia), July 2025.
- Session (Presenter), *Population Association of America*, Washington DC (US), Apr 2025.
- Session (Presenter), *British Society for Population Studies Conference*, Bath (UK), Sep 2024.
- Poster, *International Society for Bayesian Analysis Conference*, Venice (Italy), July 2024.
- Session (Presenter), *European Population Conference*, Edinburgh (UK), June 2024.

“Violence and Adolescent Fertility: a Global Analysis”

- Poster, *Population Association of America*, Washington DC (US), Apr 2025.

“Bayesian Indirect Estimation of Historical Fertility in Europe and US Using Online Genealogical Data”

- Session (Presenter), *Population Association of America*, Columbus (US), Apr 2024.
- Poster, *Conference of Young Demographers*, Prague (Czech Republic), Feb 2024.
- Session (Presenter), *Quetelet 2023 Seminar*, UCLouvain, Belgium, Nov 2023.
- Session (Presenter). *British Society for Population Studies Conference*, Keele (UK), Sep 2023.

“Using Online Genealogical Data for Demographic Research: An Empirical Examination of the FamiLinux Database”

- Poster, *Population Association of America*, Columbus (US), Apr 2024.
- Poster, *British Society for Population Studies Conference*, Keele (UK), Sep 2023.

“Estimating Fertility from Online Genealogies”

- Invited seminar, *Formal Demography Working Group*, Online, Apr 2023.

“Leveraging Crowd-sourced Online Genealogical Data to Study the Evolution of Fertility”

- Invited seminar, *Max Planck Institute for Demographic Research*, Rostock (Germany), Mar 2023.

AWARDS & ACHIEVEMENTS

Honorable Mention Award (May 2026)

“Valeria Solesin” Prize for the Best Doctoral Thesis in Demography - Italian Statistical Society

Best Poster Award (Apr 2025), *Population Association of America*, Washington DC, US

BCC (Banca di Credito Cooperativo) merit-based scholarship (May 2022): awarded to students who excelled during their university studies. (€ 600)

PhD scholarship (Nov 2021 - Oct 2024): funded under the ERC project *GENPOP* (grant nr. 865356). (approx. € 49,000)

University of Bologna merit-based scholarship (June 2021): awarded to the top students of the University of Bologna for their performance during the academic year 2020-2021. (€ 1,500)

Overseas Scholarship (Sept 2018 - Apr 2019): awarded by the University of Bologna for the academic year 2018-2019 to spend two quarters at the University of California Santa Barbara. (€ 3,200)

SKILLS

Programming Languages: R (`nimble`, `rstan`, `jags`, `tidyverse`, `parallel`, `shiny`, `rvest`, `data.table`), Python

Statistical Software: SAS, STATA

Text processing and web: L^AT_EX, MS Office, Quarto, (R)markdown, HTML

Others: Git, MySQL, SLURM

Languages: Italian (native), English (full professional), Spanish (intermediate), German (elementary)

WORKSHOPS AND SUMMER SCHOOLS

- Summer School in Computational Social Science, SISCS-Lake Como, July 2025
- Summer School in Demography, Warsaw School of Economics, Sep 2023
- Matrix Approaches to Modeling Kinship: Theory and Applications, Max Planck Institute for Demographic Research, May 2023
- Summer School in Historical Demography, Italian Society of Historical Demography, Sep 2022
- Advanced Methods for Causal Inference, Max Planck Institute for Demographic Research, July 2022
- Topics in Digital and Computational Demography, Max Planck Institute for Demographic Research, Nov 2021

PROFESSIONAL SERVICE

Member: Population Association of America (2024-), European Association for Population Studies (2024-), Formal Demography Working Group (2023-), Italian Society of Historical Demography (2023-), AISP Italian Association for Population Studies (2025-), Statistical Italian Society SIS (2025-)

Referring: Journal of the Royal Statistical Society Series A (x2), Demographic Research, Journal of Family Research, Journal of Population Aging, Demography, Popolazione e Storia

REFERENCES

[Nicola Barban](#)

Full Professor of Demography
Department of Statistical Sciences
University of Bologna
n.barban@unibo.it

[Monica Alexander](#)

Associate Professor of Statistics and Sociology
Departments of Statistical Sciences and Sociology
University of Toronto
monica.alexander@utoronto.ca

I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - European regulation on the protection of personal data.