

Riccardo Omenti

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EDUCATION

PhD student in Statistics

Department of Statistical Sciences P. Fortunati, University of Bologna
Supervisor: prof. Nicola Barban

Bologna, Italy
Nov 2021 –

MSc in Statistics (curr. Life Statistics)

Department of Statistical Sciences P. Fortunati, University of Bologna
110/110 cum Laude

Bologna, Italy
Sep 2019 – Jul 2021

BSc in Statistics (curr. Stats & Maths)

Department of Statistical Sciences P. Fortunati, University of Bologna
110/110 cum Laude

Bologna, Italy
Sep 2016 – Jul 2019

VISITING POSITIONS

Max Planck Institute for Demographic Research (MPIDR)

Visiting Scholar
Independent Research Group on Kinship Inequalities

Rostock, Germany
Jan 2023 – Apr 2023

University of California Santa Barbara (UCSB)

Exchange Student
Department of Statistics and Applied Probability

Isla Vista, California (USA)
Sep 2018 – Apr 2019

WORK EXPERIENCE

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

Statistician
Department of Epidemiology

Bologna, Italy
Jul 2020 – Sep 2021

TEACHING EXPERIENCE

University of Bologna

- Teaching Assistant for the course *Biostatistics*, BSc in Statistics, Department of Statistical Sciences. [2020-]
- Teaching Assistant for the Summer School in *Computational Social Sciences* Department of Political and Social Sciences. [Jun 2022]
- Teaching Assistant for the course *Longitudinal and Time-to-Event Data Analysis*, MSc in Statistics, Department of Statistical Sciences. [2021-2022]
- Tutor in Statistics and Probability for students with special needs. [2019-2020]

Italian Society of Historical Demography

- Instructor for the course *Basic Course in R for Historical Demography*. [Jun 2023]

CONFERENCES & INVITED SEMINARS

The British Society for Population Studies (BSPS) conference

Oral Presentation

Keele University, UK
Sep 2023

The British Society for Population Studies (BSPS) conference

Poster Presentation

Keele University, UK
Sep 2023

Formal Demography Working Group

Seminar ([link](#))

Online
Apr 2023

AWARDS & ACHIEVEMENTS

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

PhD scholarship: fully funded by the ERC project (GENPOP).

University of Bologna merit-based scholarship: Awarded to the top students of the University of Bologna for the academic year 2020-2021.

Overseas Scholarship: Awarded by the University of Bologna for the academic year 2018-2019 to spend two quarters at the University of California Santa Barbara.

RESEARCH PROJECTS

Measuring fertility from online genealogical data (PhD dissertation)

- Development of indirect methods and Bayesian models to estimate TFRs levels in Europe and North America during the historical period 1750-1900 using online genealogical data.
- Examining the evolution of fertility patterns during historical periods and countries without ground-truth demographic data
- Investigating the ability of online genealogical data to provide new insights about the timing of the fertility transition in Western Countries.

Quality assessment of online genealogical data for demographic research (PhD dissertation)

- Developing data quality indexes to measure the accuracy of demographic information online genealogical data and to assess the completeness of historical family networks.
- Comparing performance of the indexes across distinct countries in terms of mortality, fertility and migration.
- Shading new lights on the potential of online genealogical data for Historical Demography.

Role of the Second Demographic Transition in shaping the population dynamics of Dystopic Novels

- Investigating how the shift of dystopic novels from being concerned with overpopulation to being concerned with low fertility and population shrinkage.
- Studying the role of consequences of the Second Demographic Transitions in some dystopic novels (female emancipation, family disaggregation, aging).

SKILLS

Programming Languages: R, Python, stan

Statistical Software: SAS, STATA

Others: L^AT_EX, Microsoft Office, MySQL

Languages: Italian (Native), English (Professional), Spanish (Intermediate), German (Elementary)

RELEVANT COURSEWORK

PhD: Asymptotic Tools in Statistics, Probability and Stochastic Processes, Non-parametric Bayesian Statistics, Kullback-Leibler information and statistical modeling, Time Series, Special Functions in Statistics

Master's level: Demographic Analysis, Social Demography, Advanced Survival Analysis, Bayesian Statistics, Advanced Statistical Models, Machine Learning for Data Science, Asymptotic Tools in Statistics

Bachelor's level: Probability I-II, Calculus, Applied Stochastic Processes, Linear Algebra, Differential Calculus, Design of Experiments, Multivariate Statistics, Biostatistics, Econometrics

WORKSHOPS

Matrix Approaches to Modelling Kinship: Theory and Applications

Max Planck Institute for Demographic Research

Rostock, Germany

May 2023

Summer School in Historical Demography

Italian Society of Historical Demography

Online

Sep 2022

Advanced Methods for Causal Inference

Max Planck Institute for Demographic Research

Online

Jul 2022

Topics in Digital and Computational Demography

Max Planck Institute for Demographic Research

Online

Nov 2021

MEMBERSHIPS

Formal Demography Working Group ([link](#))

Italian Society of Historical Demography ([link](#))

CERTIFICATES

Good Clinical Practice for Social and Behavioral Research

Society of Behavioral Medicine

March 2022

SAS Certified Specialist: Base Programming Using SAS 9.4

SAS

May 2020

TOEFL language certificate

Feb 2016

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

June, 2023

Riccardo Genti