Riccardo Omenti

email: riccardo.omenti2@unibo.it
Department of Statistical Sciences Paolo Fortunati, University of Bologna
Via delle Belle Arti, 41
40126 - Bologna, Italy

Education

Nov. 2021–	**Phd student at the Department of Statistical Sciences, University of Bologna, 37th cycle.** PhD project: *Statistical methods for the analysis of internet-based genealogy data in Demography.* Supervisor: Prof. Nicola Barban
Sept.2019– Jul.2021	**MSc in Statistics, curriculum "Life Statistics", University of Bologna. Final graduation grade: 110/110 cum laude.** Dissertation: *A retrospective cohort study on the railroad carriages workers at the major revision workshop (OGR) of Bologna.* Supervisor: Prof. Rossella Miglio and Co-Supervisor: Dr. Daniela Cervino Language of instruction: English Main courses: Social Demography, Demographic Analysis, Bayesian Statistics, Statistical Models and Applications, Health Statistics, Machine Learning Systems for Data Science, Advanced Survival Analysis, Human Genetics, SAS Programming, Measure Theory.
Sept.2016– Jul.2019	**BSc in Statistics, curriculum "Stats & Maths", University of Bologna. Final graduation grade: 110/110 cum laude**. Dissertation: *Lasso techniques in predictive financial regression.* Supervisor: Prof. Iliyan Georgiev Language of instruction: English Main courses: Linear Algebra, Calculus I, Differential Calculus, Informatics, Descriptive Statistics, Time Series Analysis, Probability Theory I, Probability Theory II, Demography, Econometrics, Biostatistics, Inferential Statistics, Statistical Models, Environmental Statistics, Survey Sampling.

Professional and Research Experience

Jul.2020– Sept.2021	**Statistician, Epidemiological Unit of the Public Health Care Authority of Bologna.** Main tasks:

- Conduction of a cohort study about the incidence of occupational cancer cases within cohorts of occupationally exposed workers in the railway sector.

- Creation of a database for managing the surveillance of asbestos exposed workers.

- Calculation of descriptive indicators and creation of plots for the analysis of COVID-19 data.

- Management of the database for the registration of COVID-19 rapid swabs according to the Screening project implemented by the region Emilia-Romagna.

- Calculation of the main demographic indicators to be included in the final population health report by the Public Health Department of the Public Health Care Authority of Bologna.

- Most of the analyses were carried out using either Excel or STATA.

Teaching and Tutoring Experience

Academic years: 2020-2021, 2021-2022	**Tutor of the Biostatistics class, BSc. in Statistics, University of Bologna (10 hrs.)**, Instructor: Prof. Jeanine Houwing-Duistermaat.
Academic year: 2019-2020	**Tutor for students with special needs, University of Bologna (150 hrs.)**

Main tasks:

- Helping students prepare exams in the field of Statistics and Probability Theory.

- Preparation of interactive slides about Descriptive Statistics to facilitate the exam preparation of upcoming students with special needs.

Experience abroad

Sept.2018– Apr.2019	**Overseas student at the University of Santa Barbara** • Main classes: Design of Experiments, Applied Stochastic Processes, Database Management Systems, SAS Base Programming, Advanced Statistical Models, Statistical Methods for Machine Learning, Nonparametric Statistics. • Main activities: Data Science Club.
Sept.2014- Nov.2014	**Exchange student in Germany** Opportunity to attend courses in a German High School (Gymnasium Michelsenschule) in Hildescheim for three months.

Languages

Italian	**Mother tongue**
English	**Fluent**
German	Fair
Spanish	Fair

Certifications

• SAS Certified Specialist: Base Programming Using SAS 9.4 (May. 2020)

• TOEFL (Feb. 2016)

Scholarships

• Winner of a PhD scholarship at the Department of Statistical Sciences (37th cycle and academic year 2021/2022)

• Winner of the merit-based scholarship for students enrolled in the academic year 2020/2021 awarded by the University of Bologna.

• Winner of a 15-month grant awarded by the Local Health Authority of Bologna (Azienda USL di Bologna) for carrying out an epidemiological research study on the mortality of historical cohorts of occupationally exposed workers (Period: Jul.2020-Sept.2021).

• Winner of the Overseas Scholarship to spend two quarters at the University of Santa Barbara awarded by the University of Bologna (Academic year: 2018-2019).

Digital skills

• Good knowledge of R, STATA, SAS and SQL.

• Basic knowledge of Python.

• Good knowledge of the Microsoft Office package and Latex.

Seminars and courses

- "Topics in Digital and Computational Demography", Max Planck Institute for Demographic Research, 8-12 Nov. 2021

- "3rd Human Mortality Database Users Conference" 16-18 Nov. 2020

- "Stili di vita, cambiamenti pre e post pandemia COVID-19 in Italia" XLV CONVEGNO AIE 2021

- "The heterogeneous effects of job loss on fertility. Evidence from the United Kingdom and Germany", "Women's educational expansion and the educational gradient in childbearing", "The role of the accumulation of poverty and unemployment for health disadvantages" GENPOP FALL SEMINAR SERIES 2021

Research Interests

- Evolution of the main demographic processes within family networks

- Models for big data in Demography

- Mortality and health inequalities

Volunteering activities

Jan.2015–
Jul.2018

Volunteer at Passo Passo

- Passo Passo is an organization, whose main objective is to promote activities for young people with disabilities.

- Such activities include holidays, cinema, sport.

Oct.2015–
Jul.2018

Volunteer at Pubblica Assistenza

Pubblica Assistenza is an organization, whose major aim is to provide health services in different contexts. Main tasks:

- Driving fragile patients to the hospital.

- Surveillance at public events.

- Attendance of first-aid training sessions.

I hereby declare that all the information contained in this resume is in accordance with facts or truths to my knowledge. I take full responsibility for the correctness of the said information.