

FEDERICO BACCHI

Curriculum Vitae

Via Roma, 62
Acquapendente (VT), Italy
☎ (+39) 320 469 4514
✉ federico.bacchi3@unibo.it
🌐 My Webpage
in LinkedIn



Education

- 2022–2025 : **PhD, Statistical Sciences**, *Alma Mater Studiorum*, Bologna, Research project: Supply and demand of digital skills in Europe – A statistical analysis of regional labour markets through latent variable and spatial regression models (PON Scholarship).
Supervisor: Prof. Maria Rosaria Ferrante
Co-supervisor: Prof. Pinuccia Pasqualina Calia
- 2019–2021 : **Master Degree cum Laude in Statistics for Sample Surveys (LM-82)**, *University of Siena*, Thesis: Population Dynamics and economic conditions – Analysis of the Municipalities of Tuscany.
Supervisor: Prof. Gianni Betti
Co-supervisor: Prof. Laura Neri
- 2016–2019 : **Bachelor Degree cum Laude in Economics and Banking (L-33)**, *University of Siena*.

Publications

Working Papers

- 2022 Federico Bacchi and Laura Neri. Classification of the population dynamics observed in Italian municipalities between 1951 and 2019. *Quaderni del Dipartimento di Economia Politica e Statistica / Università degli Studi di Siena*, 2022.

In Conference Proceedings

- 2025 Federico Bacchi, Pinuccia Pasqualina Calia, and Maria Rosaria Ferrante. European Digital Skill Supply: A Latent Variable Perspective. In *Book of Short Papers 3rd Italian Conference on Economic Statistics (ICES 2025) Sustainability, Innovation and Digitalization: Statistical Measurement for Economic Analysis*, pages 17–20. Enzo Albano Edizioni, 2025.
- 2024 Federico Bacchi, Pinuccia Pasqualina Calia, and Maria Rosaria Ferrante. Goodness of fit assessment of item response theory models for binary data. In *CFE-CMStatistics 2024 Book of Abstracts*, page 184. ECOSTA Econometrics and Statistics, 2024.
- 2024 Federico Bacchi, Pinuccia Pasqualina Calia, and Maria Rosaria Ferrante. The digital skill diffusion in Europe: a Multilevel Latent Class Analysis of “ICT Usage in Households and by Individuals” survey data. In *MBC2 2024 Book of abstracts*, page 23. Comitato Organizzatore MBC2, Catania, Italy, 2024.
- 2022 Federico Bacchi and Neri Laura. Classification of the population dynamics. In *SIS 2022 / Book of the short papers*, pages 1576–1581. Pearson, 2022.

Work Experience

Prometeia, Bologna

- May, 2023 – **Student Researcher for Prometeia S.p.A.**, Research focus: Labour market digital skill imbalances.
Dec, 2023

As part of the PhD program, the eight-month period spent in the company was aimed to develop a consistent part of the thesis, focusing on the study of the imbalances related to digital skills in European labour market.

Istituto degli Innocenti, Florence

Oct, 2021 – **Data Analyst for Numeria S.r.l.**, *Research focus: policies for childhood and adolescence;*
Dec, 2021 *national and international adoption.*
Contribution to the annual report on the international adoption (Rapporto sui fascicoli dal 1° gennaio al 31 dicembre 2021) by Commissione per le Adozioni Internazionali (CAI) in collaboration with Istituto degli Innocenti (IDI).

Computer skills

Programming Languages Good knowledge of the statistic software R; Basic knowledge of the typesetting system LaTeX
Office Package Good overall knowledge of the package; High level of confidence in using Excel

Language Skills

English Reading Skills: C1; Writing skills: B2; Speaking skills: B2.
French Reading Skills: A2; Writing skills: A2; Speaking skills: A2.
Spanish Reading Skills: A2; Writing skills: A2; Speaking skills: A2.

Certifications

International **First Certificate of English**, Cambridge University.
Session: May 2021
Result: Pass at grade A
Overall Score: 182/190
CEFR Level: C1
International **Preliminary English Test**, Cambridge University.
Session: June 2013
Result: Pass with Distinction
CEFR Level: B2

Position of Responsibility

2019-2022 **President of the Municipal Youth Council**, Acquapendente (VT).
Constant interaction with people holding institutional offices
Coordination of group activities