FEDERICO BACCHI

Curriculum Vitae

Education

2022–present   **PhD, Statistical Sciences**, *Alma Mater Studiorum*, Bologna, Resarch 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

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 – Dec, 2023   **Student Researcher for Prometeia S.p.A.**, *Research focus: Labour market digital skill imbalances*.
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 – Dec, 2021 **Data Analyst for Numeria S.r.l.**, *Research focus: policies for childhood and adolescence; 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