

Francesco Bagnini

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EDUCATION:

Università degli Studi di Firenze | Florence, Italy MSc in Statistics and Data Science | Expected Graduation: April 2027

- **Relevant Coursework:** Causal Statistical Inference, Statistical Models, Network Data Analysis, Official Statistics & Data Protection, Data Science and Analytics.

Università degli Studi di Firenze | Florence, Italy BSc in Statistics (Laurea Triennale) | 2021 – Dec 2024

- **Foundation:** Probability Theory, Inferential Statistics, Linear Algebra, Statistical Computing, Exploratory Data Analysis.

TECHNICAL SKILLS:

- **Programming Languages:** Python (Pandas, NumPy, Scikit-Learn), R, SQL, LaTeX.
- **BI & Data Visualization:** Tableau, QGIS, Excel (Pivot Tables, Slicers, Power Query).
- **Statistical Methods:** A/B Testing, Hypothesis Testing (Z-test, Chi-square, t-test), Causal Inference, Composite Indicators.
- **Languages:** Italian (Native), English (B2 / Professional working proficiency in technical reporting).

PROFESSIONAL EXPERIENCE:

ISTAT (Italian National Institute of Statistics) | Data Analyst Intern

Florence, Italy | May 2026 – July 2026

- Designed and constructed a multidimensional composite indicator to quantify territorial vulnerability in the Abruzzo region using advanced multivariate statistics and spatial data.
- Cleaned, transformed, and managed regional administrative datasets using QGIS and statistical tools, providing empirical foundations for regional policy assessment.

- Documented analytical workflows and structured automated aggregation scripts to ensure reproducible reporting.

Modus (for Unicoop Firenze) | Field Survey & Data Collector

Florence, Italy | Sept 2023 – Apr 2024

- Conducted structured face-to-face consumer surveys across retail stores, collecting primary field data to evaluate consumer habits and satisfaction.
- Applied data collection quality controls, mitigating sampling errors and response bias across hundreds of interviews.

Classervices | Logistics & Operations Specialist

Florence, Italy | Jan 2023 – Jan 2025[cite: 8, 9]

- Coordinated event setup and structural logistics, collaborating within multidisciplinary teams under tight operational deadlines.

PROJECTS:

Academic Performance & Educational Data Mining | Applied Statistician

GitHub: github.com/frbag01/School-project | **Tableau:**

public.tableau.com/views/DASHBOARD_17854915714450/Dashboard1

- Modeled score variance across exam difficulty tiers using Kernel Density Estimation (KDE) and identified high-risk demographic clusters linked to severe sleep deprivation.
- Delivered an end-to-end interactive Tableau dashboard supported by custom multi-variable SQL extraction queries.

COVID-19 Epidemiological Tracking & Time Series Analysis | Data Analyst

GitHub: github.com/frbag01/Covid-19-Italy

- Analyzed regional transmission dynamics across 21 Italian administrative areas, identifying logarithmic growth rates and outbreak peaks.

CERTIFICATES & EDUCATION

- **IBM Data Science Professional Certificate | IBM / Coursera**
- **Diploma in Telecommunications | ITIS Meucci (Florence, Italy)**