

# Silvia Costantini

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## Education & Training

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**Ph.D. in Methodological Statistics** | School of Statistical Sciences - University of Rome 'La Sapienza' | 01/11/2025 - Current

**Master's Degree in Statistical Methods and Applications** | University of Rome 'La Sapienza' | 01/10/2022 - 30/01/2025

**Final grade:** 110/110 cum laude | **Thesis:** Forestry statistics: proposing clustering methods to detect forest changes with satellite imagery

**Bachelor's Degree in Statistics** | University of Rome 'La Sapienza' | 30/09/2019 - 28/10/2022

**Final grade:** 110/110 cum laude | **Thesis:** Simulation-based study for population mean estimation in stratified random sampling

## Work experience

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**Research Fellow** | Department of Public Health and Infectious Diseases - University of Rome 'La Sapienza' | 02/03/2025 - 28/02/2026

Corpus of Italian language for Preschoolers. Lexicon directed to Italian preschool children from 3 to 6 years collected from heterogeneous sources in Italian and Italian Sign Language.

Capture-recapture models for lexicon size estimation.

**Intern - Machine Learning and Computer Vision** | DeepPlants s.r.l. | 02/09/2024 - 28/02/2025

Self-supervised learning for plants disease detection from leaves images.

Development of a simple user-friendly interface for labelling images (with the Python library Tkinter).

Basic shell scripting, Linux environment.

**Intern - Forestry Statistics** | ISTAT | 01/03/2024 - 01/12/2024

Identification and measurement of forest disturbances through satellite imagery analysis.

Use of R and QGIS for remote sensing data analysis.

## Skills

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**Programming** | R | Python

**Document Preparation Tools** | LaTeX | Markdown | Microsoft Office

**Image Processing** | QGIS