

Edoardo Costantini

Personal information

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Experience

- 09/2019 - 12/2023 (expected) **Ph.D. researcher**, *Tilburg University*, Department of Methodology and Statistics
- **Research software development** — I developed an R package to estimate a special type of principal component analysis (*gspcr*). I contributed to the development of a variety of R packages in the field of social science (e.g., *mice*, *statcheck*). I developed numerous web applications to facilitate interaction with research results.
 - **Academic research** — I developed cutting-edge algorithms to address non-response bias in social surveys.
 - **Development of educational material** — I designed tutorials and study material for university students to practice and evaluate their computational and statistical skills. I developed a website to share accessible blog posts on statistical concepts (see the 'Digital garden' on my personal website).
 - **Frontal teaching** — I taught university master students how to program and perform complex data analyses in R. I recorded instructional videos to facilitate hybrid learning.
- 08/2018 - 06/2019 **Teaching assistant**, *Tilburg University*, Department of Methodology and Statistics
- I held **frontal lectures** and **computer laboratory sessions** for courses on:
- *Computational statistics* (master's level.)
 - *Statistics and methodology* (master's level.)
 - *Experimental research methods* (bachelor's level.)
- 03/2017 - 05/2017 **Research assistant**, *IRVAPP*, Trento, Italy
- Data cleaning for a public policy evaluation project.

Education

- 08/2017 - 08/2019 **Research master**, *Methodology and Statistics for Social and Behavioral Sciences*, Tilburg University, the Netherlands
Cum Laude (with honors)
- 09/2014 - 06/2017 **Bachelor's degree**, *Sociology*, University of Trento, Italy
Cum Laude (with honors)

Skills

Coding and software R, cluster computing, version controlling (Git), Bash, Python, \LaTeX , SPSS
Web development R Shiny, Hugo, R blogdown, CSS
Data analysis Multiple imputation, principal component analysis, regression and classification trees, regularized regression, and other machine learning techniques
English Full Professional working proficiency (TOEFL C1)
Italian Native speaker
Dutch Basic communication