

Edoardo Costantini



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Employment History



- 2019 –  **Ph.D. Researcher**, Department of Methodology and Statistics, Tilburg University.
Tasks:
- Developing new methods in the field of missing data imputation
- Teaching R programming and data analysis in R
- Coordinating teaching assistants for a statistics course
- 2018 – 2019  **Teaching Assistant**, Department of Methodology and Statistics, Tilburg University.
Courses:
- Computational statistics (master's level)
- Statistics and methodology (master's level)
- Experimental research methods (bachelor's level)

Education






- 2017 – 2019  **Research Master** in Methodology and Statistics for Social and Behavioral Sciences.
University: *Tilburg University, the Netherlands*
Grade: *Cum Laude (with honors)*
Thesis title: *Bayesian Hierarchical Modeling: A sensitivity analysis of prior distributions for the covariance matrix in hierarchical models*
- 2014 – 2017  **Bachelor's degree** in Sociology.
University: *University of Trento, Italy*
Grade: *Cum Laude (with honors)*

Research Publications

Journal Articles

- 1 **Costantini, E.**, Lang, K. M., Reeskens, T., & Sijtsma, K. (2022). High-dimensional imputation for the social sciences: A comparison of state-of-the-art methods.  doi:10.48550/ARXIV.2208.13656
- 2 **Costantini, E.**, Lang, K. M., Sijtsma, K., & Reeskens, T. (2022). Solving the "many variables" problem in mice with principal component regression.  doi:10.48550/ARXIV.2206.15107

Skills

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| Data analysis |  Multiple imputation, regression analysis, principal component analysis, regression and classification trees, regularized regression, A/B testing |
| Coding and software tools |  R, cluster computing, Git, Bash, Python, \LaTeX , SPSS |
| Web development |  R Shiny, Hugo, R blogdown, css |
| Miscellaneous |  Academic research, teaching, consultation |
| Languages |  Strong reading, writing, and speaking competencies in English and Italian |