

# Edoardo Costantini

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## Personal information

Date of birth 16 October 1994  
Nationality Italian  
Address Schouwburging 77-25, Tilburg, the Netherlands  
E-mail [costantini.edoardo@yahoo.com](mailto:costantini.edoardo@yahoo.com)  
Personal website <https://edoardocostantini.github.io>



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## Experience

- 09/2019 - 12/2023 (estimated) **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.

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## 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)*

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## Skills

Coding and software R, cluster computing, version controlling (Git), Bash, Python,  $\text{\LaTeX}$ , SPSS  
Web development R Shiny, Hugo, R blogdown, CSS  
Data analysis Multiple imputation, regression analysis, principal component analysis, regression and classification trees, regularized regression, A/B testing  
English Full Professional working proficiency (TOEFL C1)  
Italian Native speaker  
Dutch Basic communication