

# TIAGO CABAÇO

## About me

I hold a Master degree in Psychology and I develop Statistical Software using R, SQL, Python and Bash.

I enjoy the challenges of processing and exploring complex data, and I use statistics to uncover findings and insights.


I welcome the collaboration with colleagues and I am very driven to adjust to each audience when communicating findings and results.

Being able to dive deep into new topics and learn new technologies, is something that is very dear to me.


I am looking for an opportunity where I can use my skills to make a real difference in people's life and in our society.

## PROFESSIONAL EXPERIENCE

Today  
|  
2022

- **Senior R Developer**  
**Civey**  Berlin, DE
  - Use R and survey statistics to collaboratively develop libraries that calculate representative poll results for more than 10.000 polls per day, using votes from millions of users, which are used in all of our customer facing products.
  - Develop internal tools using R, SQL and Python, to allow other teams to interact with our calculation system, resulting in increased speed and flexibility to meet customer's requests.
  - Support stakeholder's decision-making on the impact of new features, by providing data-driven insights using statistical analysis, visualizations, dashboards and dynamic reports.
  - Lead the development of a new feature that reports the daily available sample size for a data product, including its integration into a Python scheduler and a PostgreSQL data base, resulting in increased efficiency in user allocation.

2022  
|  
2020

- **R Developer**  
**Civey**  Berlin, DE
  - Contributed to the development and maintenance of R libraries used to calculate more than 10.000 representative survey results daily.
  - Lead the development of a new feature for geographical survey analysis, resulting in a new product.
  - Contributed to the development of bash command line tool used to configure the R environment in production, resulting in efficient and safe workflow for new releases to production.

## CONTACT INFO

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🐙 [github.com/tiagocabaco](https://github.com/tiagocabaco)

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## SKILLS

R package development

Statistical analysis

Probabilistic programming

Effective communication of complex analytical concepts, including public speaking

Data cleaning and pre-processing

Data visualization

### Programming Languages

Highly skilled in R, Stan and Latex

Skilled in Bash and SQL

Familiar with Python

### Tools

Git (version control and collaboration)

Quarto reports (dynamic documentation with R)

Redash (dashboard building tool)

### Languages

English (Fluent)

Portuguese (Native)

German (A2)

2020  
|  
2016

### ● **Doctoral Research Fellow**

Humboldt-University

📍 Berlin, DE

- Worked with large data (millions of observations), using R to program and test automated quality checking and data manipulation routines.
- Applied hierarchical Bayesian regression and mixture modeling techniques, using the Stan probabilistic programming language, to account for different aspects of how the data was structured and generated.
- Use of high performance computing clusters and threading in order to provide scalable modeling solutions, reverting in added time to iterate over model building.
- Developed visualizations using ggplot in R to efficiently communicate insights and assess statistical model performance.

2016  
|  
2015

### ● **Research Trainee**

Psychological methods group

📍 University of Amsterdam, NL

- Created, maintained an archival data base with historical events from the Psychometric Society, resulting in a publication.
- Developed R based animated network visualizations of sequences of historical events.



## EDUCATION

Today  
|  
2016

### ● **PhD in Computational Psychology**

Humboldt-University

📍 Berlin

- Grant by the International Max Planck Research School on the Life Course.

2014

### ● **Erasmus Intensive Program in Mathematical Psychology**

University of Tartu

📍 Sagadi, Estonia

2015  
|  
2012

### ● **Masters in Clinical Psychology**

University of Lisbon

📍 Lisbon, Portugal

For my thesis I developed and deployed an online survey, and self-learned R to implement a non-standard statistical model. All of which resulted in receiving the highest grade with distinction.

2011  
|  
2009

### ● **BA in Psychological Sciences**

University of Lisbon

📍 Lisbon, Portugal



## CIVIC PARTICIPATION

2018  
|  
2017

### ● **Student representation**

Graduate students representative

📍 Berlin

- Agilized the communication between administration and students.

2014  
|  
2013

### ● **Elder Care**

Elderly Care Home

📍 Lisbon, Portugal

Supported physiotherapy sessions with the elderly.

2013  
|  
2009

### ● Student representation

Pedagogical Counsel

📍 Faculty of Psychology, University of Lisbon

- As student body representative, I made the connection between students and faculty.
- I was responsible for scheduling the exams for all courses and represented the faculty in an external evaluation process.



## PUBLICATIONS

- Wijsen, L. D., Borsboom, D., **Cabaço, T.**, & Heiser, W. J. (2019). *An Academic Genealogy of Psychometric Society Presidents*. *Psychometrika*, 84(2), 562-588.
- Almeida, J., Mahon, B. Z., Zapater-Rabero, V., Dziuba, A., **Cabaço, T.**, Marques, J. F., & Caramazza, A. (2014). Grasping with the eyes: *The role of elongation in visual recognition of manipulable objects*. *Cognitive, Affective, & Behavioral Neuroscience*, 14(1), 319-335.