



Philipp Kleer

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- 🇧🇷 Civil status: União Estável

Skills

- R** 8 years
Data analysis, visualization, teaching
- Python** 3 years
Machine Learning, data analysis, data visualization
- SQL** 3 years
Data queries, reports
- Git** 5 years
Project management, teaching
- Quarto/md** 5 years
Slides, Reports, Dashboards
- Typst / LaTeX** 5 years
Reports, Articles

Tools

- ▶ Positron, VS Code
- ▶ RStudio
- ▶ Github/Gitlab
- ▶ Office
- ▶ SAP

Summary

🎓 Ph.D.-qualified data scientist | **8+years** experience in **quantitative data analysis** and **data-driven solutions** | skilled in **data visualization**, statistical analysis and **machine learning** | expertise in **project management** | proven **interpersonal, intercultural** and **teamwork skills** | **multilingual** professional (en, de, pt) with experience in international projects | **seeking opportunities** within diverse/international environments **to apply my expertise** and **expand my knowledge** |

Experience

Data Scientist (Training)

10/2024-12/2024

DataScientest (certified by Panthéon-Sorbonne, in total 355 hours)

- Experienced with **scikit-learn** for classification, regression, clustering, and optimization tasks.
- Used **SciPy** and **statsmodels** for statistical analysis and hypothesis testing.
- Knowledgeable in **dense neural networks** and **convolutional neural networks** (CNNs) using **TensorFlow**, **PyTorch**, and **TorchVision**.
- Familiar with processing large datasets using **PySpark**
- Skilled in creating visualizations with **matplotlib** and **seaborn** as well as presenting data interactively through **plotly** and **Streamlit**.
- Strong foundation in basic data manipulation and analysis with **NumPy** and **pandas**

Postdoctoral fellow

02/2023-09/2024

G-EPIC: Gender empowerment through politics in classrooms (EU Horizon), Justus-Liebig-University Giessen (Germany)

- Led data-driven research projects in political socialization and intersectionality using **R**, **Python**, **Positron**, and **GitHub** to deliver actionable insights.
- Applied statistical techniques (e.g., **post double selection** (ML), **EFA/CFA**, **SEM**, **MAIHDA**, **regression models**) to explore political socialization and intersectionality, ensuring accuracy through data cleaning, manipulation, and model evaluation.
- Produced **8 publications and reports**, translating complex findings into actionable insights for academic and policy audiences.
- **Engaged in global team collaboration** and conducted research stays at Universidade Federal de Pernambuco (Brazil) and Universidad Carlos III de Madrid (Spain), enhancing international networks and achieving project milestones.

Project Reviewer

2023, 2024

EU CERV program & Foundation Innovation in Higher Education

- **Evaluated and assessed 26 projects** (up to 3 million Euro), applying project management methodologies to ensure project alignment with objectives and outcomes.
- Created detailed evaluation, consensus, and quality reports providing recommendations for project improvements.

Doctoral fellow

10/2015-09/2022

Chair of research methods in Political Science, Justus-Liebig-University Giessen

- Led data-driven projects using **R**, **RStudio**, and **GitHub**, providing insights into political socialization and political attitudes research.
- Applied **multi-level models**, **EFA/CFA**, **SEM**, **regression analysis** (frequentist/Bayesian), and **quantitative text analysis** to identify key patterns in political attitudes and socialization.
- Published **6 research papers/reports** and presented **9 findings** aside PhD research at international conferences influencing policy discussions.
- **Designed and taught 17 courses** on research methods, **mentoring 11 students** on thesis projects.

Languages

English	fluent (C1)
Portuguese	advanced (B2)
German	native (C2)

Higher education

Dr. rer. soc. (Social Sciences)
Justus-Liebig-University
Giessen
2022

M.A. (Political Science)
University of Vienna
2014

B.Sc. (Social Sciences)
University of Cologne
2011

- Secured funding for **3 teaching projects** and developed web-based trainings for **over 100 students**, enhancing accessible learning resources.
- **Supervised and mentored 6 student assistants**, overseeing project completion and skill development.

Project assistant (workshop management)

05/2019–05/2022

Method days & method consulting at the faculty 03, Justus-Liebig-University Giessen

- Led strategic planning and execution of an annual workshop week, **coordinating 8-10 workshops** and **100+ student participants each year**.
- **Managed** and supervised a **team of 3 student assistants**, ensuring task completion and professional development.
- Recruited and collaborated with **10+ highly qualified external lecturers annually**, enhancing the event's educational quality.
- Designed and implemented a **database using SQL** and MS Access to **automate reporting** (i.e., attendance, certificates), increasing efficiency and reducing manual workload

Additional training

Methods courses

Summer & winter schools, 1-2 weeks, 40 hours/week

Machine learning with R, Comparative social research with multi-group SEM, Structural equation modelling, **Quantitative text analysis**, **Bayesian modelling in the Social Sciences**, Applied multilevel regression modelling

Workshops

In-house workshops

Intercultural communication, Conflict competence I + II, Multi-project-management, Certificate of competence in higher education, SAP

Project examples

- **Teaching R in Higher Education**: Designed and delivered courses and a workshop on introductory data analysis in social sciences, focusing on data manipulation, visualization, and analysis using **R** (tidyverse), **RStudio**, and **Git**. Conducted hands-on exercises to develop essential data science skills, empowering over 100 students and enhancing their technical skills and confidence.
- **PhD project**: Investigated regional economic differences and their effects on democratic support through **Bayesian hierarchical modeling** using **R** (*brms*, *RStan*).
- **Political socialization of primary schoolchildren**: Evaluated the long-term impact of a civic education program on primary schoolchildren conducting a quantitative panel study using **R**. Delivered actionable insights that guided decision on keeping the program.
- **Teacher training at universities**: Assessed the effectiveness of teacher training programs in civic education collecting and analyzing quantitative and qualitative data, applying **mixed-methods approach** (**R**, **MaxQDA**). Delivered recommendations for further curricular adaptations.