



Philipp Kleer

Data Scientist

Contact

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Skills

R

8 years

Data analysis, visualization, teaching

Python

2 years

Data analysis, visualization

SQL

3 years

Data queries, reports

Git

5 years

Project management, teaching

Quarto/md

5 years

Dashboards, Slides, Reports

Typst / LaTeX

5 years

Reports, Articles

Tools

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

Languages

English

fluent

Portuguese

advanced

German

native

Summary

social scientist with Ph.D. | specialized in **quantitative data analysis** and **data-driven solutions** | skilled in **data visualization**, statistical analysis and **machine learning** | expertise in **project applications, management & evaluation** | proven **interpersonal, intercultural** and **teamwork skills** | Permanent Residency in Brazil & Germany

Experience

Data Scientist (Training)

10/2024-12/2024

DataScientest

- Machine Learning,
- Big Data/Database (PySpark)
- Deep Learning
- Complex systems & AI
- NumPy, Pandas, Scikit-Learn, SciPy, Matplotlib, Seaborn, Plotly

Postdoctoral fellow

02/2023-09/2024

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

- strategic planning & execution of complex statistical analyses (including data cleaning & manipulation)
- creation of comprehensive data reports & resulting publications (8)
- planning & implementation of project strategies
- driving effective collaboration & communication within a global team
- responsible management of the project budget
- research stay at Universidade Federal de Pernambuco (Recife, Brazil) & Universidad Carlos III de Madrid (Spain)

Project Reviewer

2023, 2024

EU CERV program & Foundation Innovation in Higher Education

- evaluation and assessment of third-party funded projects
- comprehensive evaluation reports for large-scale projects (up to 3 Mio. Euro)

Doctoral fellow

10/2015-09/2022

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

- data analysis using quantitative methods, supervising data-driven projects, and publishing data insights (6 papers/reports, 9 conference contributions)
- supervising student assistants (6)
- successful application for project funding (3 teaching projects)
- teaching undergraduate courses in research methods (17 courses), 1:1 mentorship to 11 students during their theses & creation of comprehensive web-based-trainings (3)
- participating in academic administration (holding 5 committee positions)

Project assistant

05/2019-05/2022

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

- strategic planning & effective project management
- motivating & professional supervision of student assistants (3)
- successful execution of the event week (8 workshops per year)
- precise financial controlling
- proactive & successful recruitment of highly qualified external lecturers

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

Additional training

Methods

Summer & winter schools

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

Didactics

In-house workshops

Intercultural communication, Conflict competence I + II, Certificate of competence in higher education

Project management & administration

In-house workshops

Multi-project-management, Understanding project evaluations, SAP

Project experience

Throughout my career, I have developed comprehensive skills in **data-driven analysis**, **data management**, and **implementation of data-driven solutions**. In various projects, I have demonstrated my ability to **process complex datasets**, **apply advanced statistical models**, and generate **relevant insights**. **By applying statistical models and predictive analyses**, I was able to translate data into actionable insights that contributed to process optimization and **supported data-driven decision-making**. My experience has equipped me to **ensure data quality**, **maintain data integrity**, and effectively manage large datasets.

Additionally, I am skilled in **implementing data strategies**, efficiently managing resources, and fostering **clear, effective communication** within teams to achieve project goals. As a **project leader**, I have mentored and guided team members, strengthened collaboration, and ensured that high-quality results were delivered even under pressure.

Below you find some projects:

- Data manipulation & visualization with tidyverse: Led course on **data manipulation** and **visualization** using tidyverse, enabling students to work effectively with large datasets and create compelling visual narratives.
- Teaching R: **Developed** and taught courses on **introductory data manipulation** and **analysis** using R, accompanying **Git**, equipping students with foundational data science skill.
- PhD project: Applied **Bayesian models** for multilevel analysis across regions, accurately modeling **hierarchical data structures** and capturing regional variations.
- Children in a German state parliament: Lasting learning experiences of primary schoolchildren: Conducted **quantitative data collection** (panel study) and analysis to **assess long-term learning outcomes** in primary schoolchildren.
- How to prepare teachers to teach civic education?: Analyzed **quantitative and qualitative data** to evaluate the effectiveness of teacher training programs in civic education.