DR TIM MÜLLER

SENIOR DATA ANALYTICS LEAD

CONTACT

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CORE SKILLS

- Project Management & Leadership
- Policy Advice & Stakeholder Management
- Quantitative Methods & Experiments (Causal Inference, A/B Testing)
- Applied Social Research

TECHNICAL SKILLS

- Python (Pandas, NumPy, Scikit-Learn), R, Stata
- SQL (PostgreSQL, MySQL), MongoDB
- ETL & Cloud (AWS, Azure, GCP)
- Data Viz: Tableau, Looker Studio

LANGUAGES

- German (Native)
- English (Fluent)
- Swedish (Basic)

PROFILE

I am a senior data analytics professional with a PhD in quantitative sociology, focused on using complex data to support pragmatic decision-making. I combine the statistical depth of a researcher with technical pragmatism, using Python and SQL to structure messy inputs and build reproducible analytical workflows. Throughout my career, I have led applied research teams and managed large-scale evaluation projects spanning migration, political attitudes, and healthcare. I help organisations translate ambiguous questions and unstructured data into clear, practical guidance. I thrive in roles that require analytical rigour, structured problem-solving, and the ability to connect technical complexity with real organisational decision-making.

WORK EXPERIENCE

IGES Institut GmbH — SINCE 07/2025
Project Lead (Evaluation & Health Care Design)

- Coordinated analytical packages for two national studies and co-led workshops, aligning with clients (GKV-SV) and stakeholders (MD Bund).
- Secured ca. €250k funding with a methodological tender, developing study concepts and a Python scraping prototype.
- Designed survey instruments for care homes and auditors, establishing a vignette-based item concept to assess inter-rater reliability.
- Contributed to methodological strategy via exploratory R analyses (shrinkage, bias tests); modelled drivers of rising long-term care prevalence using simulations (incidence-duration-model).

Freelance Data Analyst — 07/2024-06/2025

- Specialised in Machine Learning and data engineering (Python: NumPy, Pandas, Scikit-Learn, TensorFlow/Keras; PostgreSQL, MongoDB), focusing on applied analytics solutions.
- Built scalable ETL pipelines and worked with cloud-based data processing (AWS, Azure, GCP) to enable efficient data workflows.
- Developed interactive dashboards and analytics (Tableau, Looker Studio) to support insights and data-driven decision-making.

Humboldt University of Berlin, — 07/2019- 06/2024
Berlin Institute for Integration & Migration Research
Data Analytics Lead (Research Group Leader)

- Led two research groups on radicalisation in adolescence and migration & welfare (10 team members), managing €1.5 million in funding, budgets, and advising policymakers.
- Developed prevention methods (online experiments, video), modelled migration flows and fiscal impacts (GETTSIM/Python), and conducted media analyses (R).
- Presented research to policymakers, stakeholders, and the public.

Principal Data Analyst (Postdoc) — 01/2017 - 06/2019

- Developed concepts for labour market integration of refugees and evaluated language courses.
- Conducted advanced statistical analyses (IV, DiD, Fixed Effects) to assess integration outcomes.
- Advised policymakers as part of Germany's National Integration Plan (NAP-I) and presented findings to academic and public audiences.

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Expert Council on Integration and Migration, Research Unit — 01/2016 - 04/2017

Senior Project Manager, Data (Postdoc)

- Developed and validated an intervention to improve academic performance of adolescents with a migration background (800 students, 14 schools).
- Led research design, funding, fieldwork, personnel; analysed data (ANOVA, multilevel models) and visualised results (Stata, R, Excel).
- Presented findings to public audiences, trained teachers, and authored publications and reports.

Humboldt University of Berlin, Berlin Institute for Integration & Migration Research — 11/2015 - 12/2016

Senior Project Manager, Data (Postdoc)

- Examined teacher influence on academic success of adolescents with a migration background and regional attitudes of teachers.
- Coordinated the project, served as acting leader, secured third-party funding, and conducted independent analyses (Stata, R, Excel).
- Communicated results, trained teachers, advised policymakers, and authored publications and reports.

Institute for Futures Studies, Stockholm & Institute for Analytical Sociology, Linköping University — 05/2013 - 10/2015

Data Analyst (Postdoc)

- Modelled and analysed migration patterns in urban areas and political attitudes; developed guidelines to reduce socio-spatial segregation.
- Conducted large-scale data analyses (population register, N=9M) using advanced methods (SQL, Python, Stata, R, ERGM).
- Designed experiments and A/B tests for surveys; authored publications and presented findings.

Humboldt University of Berlin, Institute of Social Sciences — 06/2012 - 04/2013

Project Manager, Data Analyst (Postdoc)

- Analysed public attitudes toward migration and integration (national and regional).
- Led quantitative data analysis and survey design (N=8,000), including experiments to avoid social desirability bias.
- Secured third-party funding and presented findings to the public and media.

EDUCATION

University of Oxford, Nuffield College — 10/2008 - 08/2013
Doctor of Philosophy (PhD) in Sociology.

University of Mannheim — 10/2003 - 06/2008
Diploma (equiv. MA) in Social Sciences, focus on Sociology, Social Psychology, Research Methods.