



# DR TIM MÜLLER

LEAD DATA ANALYST AND SOCIAL RESEARCHER

## CONTACT

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## CORE SKILLS

- Quantitative Methods & Experiments (Causal Inference, A/B Testing)
- Project Management & Leadership
- Policy Advice & Stakeholder Management
- 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 combine over a decade of social research experience with expertise in quantitative analysis, data science, and data engineering (Python, R, SQL). Skilled in ETL pipelines, cloud-based data processing, and visualisation tools (Tableau, Looker Studio), I design analytics solutions that enable data-driven decisions. I have led national and international projects, securing funding and using methods like A/B testing and experiments to analyse behaviour. As a versatile problem solver, I turn complex data into actionable insights, lead interdisciplinary teams, and communicate results effectively to policymakers and stakeholders.



## WORK EXPERIENCE

### Freelance Data Analyst

SINCE 07/2024

- Specialising in Machine Learning and data engineering (Python: NumPy, Pandas, Scikit-Learn, TensorFlow/Keras; PostgreSQL, MongoDB), focusing on applied analytics solutions.
- Building scalable ETL pipelines and work with cloud-based data processing (AWS, Azure, GCP) to enable efficient data workflows.
- Developing 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.

### 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.

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**Humboldt University of Berlin,**

11/2015 - 12/2016

**Berlin Institute for Integration & Migration Research**

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 &**

05/2013 - 10/2015

**Institute for Analytical Sociology, Linköping**

**University**

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,**

06/2012 - 04/2013

**Institute of Social Sciences**

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.

**Anna-Sophianeum High School, Schöningen**

1995 - 2002

General University Entrance Qualification (Abitur).

## OTHER ENGAGEMENTS & INITIATIVES

**Committee Member, Humboldt University, BIM**

2019 - 2024

Represented mid-level academic staff and contributed to institutional development.

**Editorial board member, Hedgefox magazine**

2019 - 2024

Focus on migration and integration topics.

**Student representative, Nuffield College**

2008 - 2013

Participated in college governance.