Marcel Gehrke
DATA SCIENTIST

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Personal Profile

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A motivated and responsible young professional seeking a Ph.D. position within the RTG 'Regional Disparities & Economic Policy', which allows him to combine the joy for data analysis and the hands-on experience he gained in private sector with his passion for society related, evidence based science. Able to take responsibility and deliver results - which are reproducible and comprehensibly to others - by himself and also a well familiar team player.

Relevant Work Experience

ARAG SE   *Düsseldorf, Germany*
DATA SCIENTIST   *Apr. 2018 - Present*
- Providing data-driven and evidence based solutions to organization-wide problems using state of the art algorithms and modelling techniques.
- Taking responsibility for whole project lifecycles.
- Reporting results and recommendations for actions via presentations, interactive html-documents and web-applications.
- Important internal clients are board members, sales strategy executives as well as the product development department.

Deloitte   *Düsseldorf, Germany*
DATA ANALYST   *Oct. 2017 - Apr. 2018*
- Member of a highly interdisciplinary and international project team inside the 'Segregation of Duties' Division of one of Europes biggest banks.
- Focus on conveying between IT and business stakeholders around the world to ensure the fulfillment of regulatory requirements.

Institute for Advanced Studies in the Humanities (KWI)   *Essen, Germany*
RESEARCH ANALYST   *Oct. 2016 - Jun. 2017*
- Research within the project 'FinShare' ('Citizen Participation within the Share Economy using the example of financial markets', funded by the German Ministry of Justice and Consumer Protection.
- Supporting the organization of the projects closing conference.
- Accompanying expert interviews.
- Collaborative writing of the proposal for a follow up project.

GESIS – Leibniz Institute for the Social Sciences   *Cologne, Germany*
STUDENT ASSISTANT   *Feb. 2016 - Feb. 2017*
- Assisting the team 'Data Linking and Data Security', including the Secure Data Center.
- Supporting research projects regarding: ubiquitous computing, georeferencing of survey data and the Qualitative Election Study of Britain.

Innofact AG   *Düsseldorf, Germany*
INTERNSHIP   *Mar. 2015 - May 2015*
- Supporting the online market research institute conducting quantitative analyses and reporting them to clients.

Education

University of Duisburg-Essen   *Duisburg, Germany*
MASTER OF ARTS IN SOCIOLOGY (HONS)   *Oct. 2015 - Oct. 2017*
- Major subject: advanced empirical social research.
- Thesis: 'Statistics 4.0? The potential use of new classification algorithms for empirical social research.'
- Research Internship within a project dealing with the longitudinal simulation of third generations migrants job prestige by using dynamic microsimulations.
- Relevant courses: multivariate data analytics, longitudinal data analytics, advanced regression analysis, research theory, models with latent variables, Machine Learning with R, network analysis, survey design, English for sociologists.

University of Duisburg-Essen   *Duisburg, Germany*
BACHELOR OF ARTS IN SOCIOLOGY   *Oct. 2011 - Oct. 2015*
- Major subject: advanced methods in social research.
- Thesis: 'Anti-Muslim Racism - A New Phenomenon?'
- Relevant courses: communication of research results in public, social structure analysis, quantitative and qualitative research methods, statistics.

Academic Experience

Talks

Digitization, Data Analytics & New Work: A playground for Sociologists?
Nov. 2018

Duisburg Career Days For Sociologists, University of Duisburg-Essen

Crowdfunding, Intermediaries and Responsible Consumers: Towards a Sociological Analysis of Digital Financial Markets.
Jul. 2017

Sociological Colloquium, University of Duisburg-Essen, with Project Lead and KWI-Fellow Patrick Linnebach

Paper

Anti-Muslim Racism – A New Phenomenon?
Apr. 2017

Duisburger Beiträge zur Soziologischen Forschung, DOi: 10.6104/DBSF-2017-02

Teaching

University of Duisburg-Essen
Essen, Germany

Tutor and assignment correction – Lecture: 'Statistics and methodology of the social sciences'.
Apr. 2017 - Jul. 2017

University of Duisburg-Essen
Duisburg, Germany

Tutor and exam correction – Lecture: 'Foundations of Sociology'.
Oct. 2015 - Jan. 2016

Tools

R

Statistical Programming Language

- Able to use R for the whole data analytics lifecycle: procuring data, parsing, cleaning, analyzing, reporting.
- Extensive knowledge of widely used packages and frameworks e.g. caret, mlr3, ggplot2, tidyverse, markdown.
- Experience in parametric and non-parametric modelling with R.
- Build tailormade dashboards and shiny applications.

Git (Github & Bitbucket)

Versions Control System

- Git allows its users to track changes in source code, datasets and other files to support colloborative work among multiple people.

SQL

Database Language

- Experience in using SQL to extract data from Postgres and Microsoft SQL databases.

Python

Programming Language

- Basic knowledge of using Python for the data science lifecycle (see R), as well as buildung neural networks.

STATA

Statistical Software

- Calculating random- and mixed-effects models at university.

LISREL

Statistical Software

- Structural-Equation-Modelling.

SPSS

Statistical Software

- Descriptive data analysis, data cleaning, regression modelling.

Other

Tools used in various contexts

- HP ALM - Application Development and Testing
- Typo 3 - Content Management System
- Microsoft Office Tools - e.g. Excel, Word, PowerPoint and SharePoint

Trainings, Conferences and other

Planning and starting projects in a purposeful manner.　　　　　　*Jan. 2020*

Two-day company-internal course

- Dealing with the conceptual foundations which are important to the succesful execution of projects.

Masterplan: Foundations of Digitization　　　　　　*Dec. 2019 - Jan. 2020*

About 12 hours interactive learning

- Self-paced online courses on various topics.

Winning the Mercedes‑Benz #MoveSafety Hackathon.　　　　　　*Dec. 2019*

Two-day hackathon in Potsdam, Germany

- Together with a colleague from ARAG and students of the Potsdam based XU University, a clickdummy, which adapts the concept of providing safe walks home for vulnerable people was developed with the help of Design Thinking methods. The following pitch was won against three competitors (T-Systems, Daimler- and Mercedes-Benz Incubators).

Solvency II　　　　　　*Dec. 2019*

E-Learning

- Extensive European insurance regulation law.

Open-Data-Science-Conference　　　　　　*Nov. 2019*

Three Conference days in London

- Attending talks and workshops to learn about and apply state of the art data analytics methods, model explainability and ethics in AI.

Insurance in Action　　　　　　*Nov. 2019*

Two-day Company-internal workshop

- Dealing with the foundations of insurance specific topics like regulation, pricing and reserving.

How insurers can make intelligent use of their data (advanced course)　　　　　　*Oct. 2018*

Two-day at the Academy of Science, Economics and Technology, University of Ulm, Germany

- Workshop about advanced machine learning methods used in insurance contexts.

Scholarship

Scholarship of the German Ministry for Education and Research　　　　　　*Oct. 2016 - Oct. 2017*

Granted for high-achieving and committed students.

Community Service and Schooling

St. Vinzenz Hospital for Mental Health　　　　　　*Rhede, Germany*

Community Service　　　　　　*Aug. 2010 - Mar. 2011*

Euregio Gymnasium　　　　　　*Bocholt, Germany*

Abitur　　　　　　*Aug. 2001 - Jul. 2010*