

# JOSCHKA SCHWARZ

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🐙 [github.com/jwarz/ds](https://github.com/jwarz/ds)



5 years' experience working with data. Expertise in quantitative modeling, growing people and making data-driven decisions. Currently working as a **Research Associate (Ph.D. Candidate)** at the intersection of computer science, statistics and the social sciences as member of both the **Entrepreneurship & Data Science** groups.

I am looking for a position where I can use the skills that I have developed during my years in practice and academia to lead projects in the frame of digitalisation. As **Technical Data Application Owner** at Airbus, I would be able to leverage my experience in teaching and applying data-driven techniques and would be able to solve the problems I most enjoy working on (technologies used mostly: **R, SQL and Python**).

## Industry Experience

**Hamburg University of Technology**, Hamburg, Germany

**06/2018 - Present**

*Program Manager / Research Associate (Institute of Entrepreneurship)*

Conducting collaborative research, teaching students, managing industry projects while pursuing independent research and further academic and data science related qualifications.

- Lead of B2B/B2C industry innovation projects (focus: digital transformation, big data analytics)
- Designed and conducted multiple lecture units and exams in entrepreneurship and data science
- Developed and implemented a *Digital Teaching and Learning Ecosystem* to teach classes remotely
- Supervised student theses, projects and internships
- Presented at international conferences and about to publish in related journals

**Lufthansa Technik AG**, Miami, USA & Hamburg, Germany

**04/2017 - 03/2018**

*Master's Degree Candidate (dept.: Closed Loop Supply Chain Management)*

Created a custom AI-based solution for reducing cost & response time (in collaboration with IBM Watson).

- Communicated with stakeholders to define project parameters and keep them up to date on project status
- Optimized use of resources to complete projects ahead of deadline and under budget
- Designated resources, assigned tasks and monitored performance for each part of the project

**Horváth & Partners Management Consultants**, Frankfurt on the Main, Germany

**10/2016 - 02/2017**

*Management Consulting, intern (dept.: Transportation, Travel & Logistics)*

Worked as a PMO manager on a project for the development of new location concepts of a large European railroad company, replacing the entire existing infrastructure of this major corporate.

- Operational execution of PMO activities (reporting, budget tracking, preparation and follow-up of meetings)
- Assistance in establishing the project structure
- Preparation of profitability calculations and capacity / utilization analyses for the individual sites

**AUDI AG**, Neckarsulm, Germany

**09/2013 - 12/2013**

*Process Optimization, intern (dept.: Body Construction A6/A4)*

As coordinator of the Lean Manufacturing Team, I was responsible to help people to understand the Lean Management philosophy and the operational excellence approach of AUDI (Audi Production System, APS).

- Training and coaching of lean methods with focus on problem solving, logistics and process synchronisation
- Preparation, implementation and moderation of shopfloor management projects in direct and indirect areas
- Optimizing various processes via process mapping and value stream analysis

**Fraunhofer institutes (ILT & IPT), Aachen, Germany**  
*Student assistants*

**2013 - 2016**

**L'Arche Greater Vancouver, Vancouver, Canada**  
*(Live in) Care Assistant (Alternative mandatory community service)*

**08/2010 - 08/2011**



## Teaching Experience

### Data Science

**10/2019 - Present**

Designer & Instructor of multiple business oriented Data Science and Machine Learning courses:

- Data Science certificate program
- Business Data Science Basics
- Business Decisions with Machine Learning
- Building Business Data Products

### Entrepreneurship & Innovation

**10/2018 - Present**

Teaching students skills needed to build a technology startup from the ground up in varying classes:

- Startup Engineering
- Technology Entrepreneurship
- Sustainable Entrepreneurship
- Creation of Business Opportunities



## Education

**RMIT University Melbourne, Melbourne, Australia**  
*Visiting Research Scholar*

**01/2023 - 03/2023**

**Hamburg University of Technology, Hamburg, Germany**  
*Ph.D. Thesis in Innovation Management & Entrepreneurship Science*

**06/2018 - Present**

Quantitative dissertation (using SQL, R, Python) on the influence of social, structural and reputational effects on entrepreneurial success.

- Creation of various databases by scraping different data providers and collaborative platforms
- Natural language processing on linkedin and startup databases to extract features for network analysis
- Machine Learning and statistical analysis on large (> 5 billion records) github and stackoverflow datasets

**Maastricht University, Maastricht, Netherlands**  
*Visiting Research Scholar*

**02/2016 - 06/2016**

**Polytechnic University of Valencia, Valencia, Spain**  
*Visiting Research Scholar*

**02/2014 - 06/2014**

**RWTH Aachen University, Aachen, Germany**  
*B.Sc. & M.Sc. in Business Administration & Engineering*

**09/2011 - 03/2018**



## Professional Development (Certification)

**Business Science University, remote**

**06/2019 - Present**

Applying enterprise-grade end-to-end projects (business & finance) using machine learning and web apps.

- Business Analysis (Data Science Foundations)
- Data Science for Business (Predictive Dashboards)
- Shiny Web Applications (ML & Business Consulting)
- Advanced Web App Development with AWS

**DataCamp, remote**

**06/2019 - Present**

Foundations of data science including statistics, inference, computer science, predictive analytics, machine learning and other technologies to gain insights from big data (using R, Python and SQL).

- Data Analyst with R (19 Courses)
- Data Scientist with R (22 Courses)
- Machine Learning Scientist with R (15 Courses)
- Statistician with R (27 Courses)