

JOSCHKA SCHWARZ

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🌐 jschwarz.me



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

Seeking a role in the frame of analytics, applying skills from academia and practice. As **Project Manager (AI/ML)** at Vattenfall, I am particularly drawn to the challenge of managing large-scale data projects and using cutting-edge tools to further enhance your analytics. (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)

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Engaged in collaborative research, teaching and industry project management alongside pursuing independent research and advancing academic and data science qualifications.

- Provided startup consulting services, offering expertise in entrepreneurship and data science strategies
- Lead B2B/B2C industry innovation projects with a focus on digital transformation and big data analytics
- Pioneered the development of a *Digital Teaching and Learning Ecosystem* to facilitate remote classes
- Mentored student theses, projects and internships, fostering growth and professional development

Lufthansa Technik AG, Miami, USA & Hamburg, Germany

04/2017 - 03/2018

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

Developed a custom AI-driven solution, in partnership with IBM Watson, to streamline cost & response time.

- Liaised with stakeholders to delineate project scope and ensure ongoing updates on progress
- Strategically managed resources, delivering projects ahead of schedule and within budget
- Orchestrated resource allocation, task delegation, and performance monitoring throughout

Horváth & Partners Management Consultants, Frankfurt on the Main, Germany **10/2016 - 02/2017**

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

Managed PMO for a large-scale project developing new location concepts for a leading European railroad company, involving infrastructure overhaul.

- Led agile PMO operations including reporting, budget tracking and meeting facilitation
- Contributed to establishing the project's framework and processes for seamless execution
- Conducted profitability assessments and capacity analyses for each site, informing strategic decisions

AUDI AG, Neckarsulm, Germany

09/2013 - 12/2013

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

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As the Lean Manufacturing Team coordinator, I facilitated the adoption of Lean Management principles and operational excellence strategies at AUDI, focusing on the Audi Production System (APS).

- Taught lean methodologies, focusing on problem-solving, logistics, and process synchronization
- Planned and moderated shopfloor management projects across both direct and indirect operational areas
- Enhanced processes through detailed process mapping and value stream analysis

Teaching Experience

Data Science

10/2019 - Present

Designed and instructed a variety of business-oriented Data Science and Machine Learning courses, tailored to meet the specific needs and objectives of diverse organizations. These courses encompassed a range of topics, including data analysis, predictive modeling, statistical techniques and advanced ML algorithms:

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

Entrepreneurship & Innovation

10/2018 - Present

Instructing students in the essential skills necessary for launching a technology startup. These classes delve into various aspects crucial for building a successful startup, including ideation, market research, product development, marketing strategies, financial planning and entrepreneurial mindset cultivation:

- 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.

- Utilized web scraping techniques to gather large-scale datasets (> 5 bn records) from various sources
- Employed clustering algorithms and dimensionality reduction techniques to categorize similar data points
- Developed forecasting models using time-series analysis and predictive analytics to project future trends
- Applied natural language processing (NLP) techniques to extract insights from textual data sources
- Implemented machine learning algorithms for predictive modeling and classification tasks
- Utilized data visualization techniques to present findings in a clear and insightful manner
- Collaborated with interdisciplinary teams to leverage expertise and perspectives from diverse fields

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

Completed certification in implementing enterprise-grade end-to-end projects in business and finance, integrating machine learning methodologies and web applications:

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

Achieved certification in the various Data Science tracks, encompassing statistics, inference, predictive analytics, ML and other technologies essential for deriving insights from large datasets (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)