# JOSCHKA SCHWARZ 🔵🟡

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7 years' experience working with data. Expertise in quant. 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 AI and Machine Learning, applying skills from academia and practice. As **Project Manager (AI/ML)** at Vattenfall, I am particularly drawn to the development as well as conceptual and strategic advancement of Conversational AI models. (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)*

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

- Provided consulting services, offering expertise in entrepreneurship and data science strategies
- Lead 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, 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)*

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 direct and indirect operational areas
- Enhanced processes through detailed process mapping and value stream analysis

**L'Arche Greater Vancouver,** Vancouver, Canada          **08/2010 - 08/2011**
*(Live in) Care Assistant (Alternative mandatory community service)*

## 🔳 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 predictive modeling, statistical techniques and 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 Entrepreunrship
- Sustainable Entrepreunrship
- Creation of Business Opportunities

## 🎓 Education

**RMIT University Melbourne,** Melbourne, Australia                  **01/2023 - 03/2023**
*Visiting Research Scholar*

**Hamburg University of Technology,** Hamburg, Germany               **06/2018 - Present**
*Ph.D. Thesis in Innovation Management & Entrepreneurship Science*

Quantitative dissertation (using SQL, R, Python) on the influence of social, structural and reputational effects on entrepreuneurial 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 data points
- Developed forecasting models using time-series analysis and predictive analytics to project 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                   **02/2016 - 06/2016**
**Polytechnic University of Valencia,** Valencia, Spain              **02/2014 - 06/2014**
*Visiting Research Scholar*

**RWTH Aachen University,** Aachen, Germany                          **09/2011 - 03/2018**
*B.Sc. & M.Sc. in Business Administration & Engineering*

## 📄 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)
- Data Science for Business (Dashboards)
- Shiny Web Applications
- Advanced Web App Development with AWS

**DataCamp,** remote                                                 **06/2019 - Present**

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

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