

## Wolfgang Spindeler, PhD

Data Scientist at DeepL

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<https://github.com/wol-e>

### Professional Experience

#### DeepL (Cologne, Germany, Remote Position)

Since 04/2021	<b>Data Science Lead Data Analytics Platform</b> <ul style="list-style-type: none"><li>Scaling the Data Science Team from 1 to 8 people. Managing individual contributors by guiding their personal growth and providing feedback on their projects.</li><li>Leading the implementation and scalability of AB testing code, statistical models and metrics</li><li>Designing and implementing analytics and assignments logics for AB testing of Email campaigns</li><li>Kicking off Machine Learning projects for product optimizations (churn prediction, user segmentation, recommendations)</li><li>Kicking off Analytics around paid user growth (SEM and display campaigns)</li></ul>
10/2020 - 03/2021	<b>Senior Data Scientist Data Analytics Platform</b> <ul style="list-style-type: none"><li>Automation and modelling for AB testing (Python, SQL)</li><li>Definition and implementation of business and product metrics (e.g. revenue, traffic growth, user interaction metrics for AB testing)</li><li>Conceptualization and design of our infrastructure around submitting and scheduling data jobs, table design and visualizations.</li></ul>

#### trivago (Düsseldorf, Germany)

02/2020 - 09/2020	<b>Data Science Team Lead Marketplace</b> <ul style="list-style-type: none"><li>Team Lead for a data quality team with leadership of 2 Data Scientists</li><li>Development of Anomaly Detection algorithms (Spark, Pandas, fbprophet, Tensorflow, MLFlow)</li><li>Ownership of various data pipelines on Hadoop (Hive, PySpark, Oozie, Impala)</li></ul>
01/2017 - 01/2020	<b>Data Scientist Marketplace</b> <ul style="list-style-type: none"><li>Development of a Bayesian statistics library for A/B testing in Python</li><li>Development of a prototype for Bayesian A/B testing with R</li><li>Responsible Data Scientist for the customer facing tool `trivago Intelligence` (calculation and definition of customer metrics)</li><li>Implementation and maintenance of various ETL pipelines on Hadoop (Hive, Oozie, PySpark)</li></ul>
08/2016 - 12/2016	<b>Junior Data Analyst Sales</b> <ul style="list-style-type: none"><li>Automated reporting to customers and account managers (Hive, Oozie, R Shiny)</li><li>Various Business analyses (R, Apache Impala, MySQL)</li></ul>

<b>Intense AG (Cologne, Germany)</b>	
<b>02/2016 - 07/2016</b>	<b>Junior Technical Consultant</b> <ul style="list-style-type: none"> <li>Technical consulting and project management around SAP</li> </ul>
<b>University of Münster, Mathematical Institute (Münster, Germany)</b>	
<b>08/2010 - 06/2015</b>	<b>Research Assistant / Postdoctoral Researcher</b> <ul style="list-style-type: none"> <li>Research in pure mathematics with focus on Differential Geometry</li> <li>Teaching tutorial classes and supporting students on their Bachelor theses and Seminar papers</li> <li>Talks at mathematics conferences and workshops</li> </ul>
<b>2008 - 2010</b>	<b>Student assistant</b> <ul style="list-style-type: none"> <li>Leading tutorial classes for math students</li> </ul>
<b>Education</b>	
<b>07/2014</b>	<b>PhD in Mathematics at University of Münster</b> <ul style="list-style-type: none"> <li>Grade: 'Magna cum Laude'</li> <li>Field of research: Differential Geometry</li> </ul>
<b>07/2010</b>	<b>Diploma in Mathematics at University of Münster</b> <ul style="list-style-type: none"> <li>Grade: A ("sehr gut (1.2)")</li> <li>Minor: Economics</li> </ul>
<b>Data Science Skills and Tools</b>	
<b>Data Science concepts:</b>	<ul style="list-style-type: none"> <li>Data Exploration and Analysis (expert)</li> <li>classical Machine Learning (tree methods, regression, scikit-learn) (advanced)</li> <li>Design and Development of data pipelines (expert)</li> <li>Statistical modeling and analysis (advanced)</li> <li>Deep Learning (basics)</li> <li>Principles in Software Engineering (basics)</li> </ul>
<b>Familiar Tools:</b>	pandas, scikit-learn, tensorflow, pytorch, scipy, pymc3, jupyter, matplotlib, Hadoop, Hive, MySQL, bash, MLFlow, docker, conda, poetry
<b>Others</b>	
<b>Languages:</b>	German (native), English (fluent)
<b>Publications:</b>	For my list of mathematical publications you can refer to <a href="https://www.researchgate.net/scientific-contributions/Wolfgang-Spindeler-2088164834">https://www.researchgate.net/scientific-contributions/Wolfgang-Spindeler-2088164834</a>
<b>Interests:</b>	Chess, Piano, Running