

# Florian Wilhelm

Head of Data Science

Cologne, Germany

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## Personal Information

Date of Birth 23/11/1981  
Place of Birth Neustadt an der Weinstraße, Germany  
Marital status single  
Nationality german

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## Work Experience

- 02/2020 – today **Head of Data Science**, *inovex GmbH*, Cologne, Germany.  
Team lead and driver of the field of Data Science within inovex. Tasks:
- managing a heterogeneous team of Data/ML engineers and data scientists,
  - sparring partner and consultant in data science projects,
  - technical account manager and presales,
  - strategic expansion and further development of our data science business.
- 04/2016 – 01/2020 **Principal Data Scientist**, *inovex GmbH*, Cologne, Germany.  
Consultant for Data Science, mathematical modelling and Big Data maximizing the benefits of the digital transformation for our customers. Tasks:
- recommendation engine and user preference service for the e-commerce company mobile.de,
  - fraud and account takeover detection for a large e-commerce company,
  - learning to rank to improve search results of customers for a large e-commerce company,
  - research projects in OCR with deep learning, NLP interface for SQL, reinforcement learning and uncertainty quantification,
  - project lead, support of presales activities and supervisor for bachelor and master students.
- 11/2015 – 03/2016 **Senior Professional: Data Scientist**, *CSC Consulting GmbH*, Cologne, Germany.  
Consultant for advanced Data Science, Big Data and Analytics solutions:
- predictive maintenance for a component manufacturer of commercial vehicles,
  - training and coaching of new employees in the field of Data Science,
  - support of PreSales activities, i.e. presentations, customer events, preparation of offers and cost estimation.

- 12/2012 – 09/2015 **Senior Data Scientist, Blue Yonder, Karlsruhe, Germany.**  
 Predictive analytics and statistical modelling in Big Data projects:
- demand forecasts & replenishment for a consumer packaged goods company as project leader,
  - forecasts of the production costs for a large manufacturing company as project leader,
  - algorithms for trade promotion management for the consumer goods industry,
  - price & trend forecasts of raw materials for a large chemical producer,
  - demand forecasts for a global discount supermarket chain,
  - participation in the development of the Blue Yonder Forward Demand product,
  - tutor in the Data Science Academy,
  - contributions to open-source projects like Scikit-Learn, SciPy, PyScaffold and PyDSE.
- 03/2009 – 11/2012 **Research Assistant & Postdoc, Karlsruhe Institute of Technology (KIT).**  
 Work on a BMBF-funded project during PhD and Head of the Research Lab for Application and Innovation at the Institute of Applied and Numerical Mathematics at KIT as Postdoc since 02/2012.

## Education

- 03/2009 – 01/2012 **Graduation, KIT, Karlsruhe, Germany, Grade: 1.0 "magna cum laude".**  
 Graduation at the Karlsruhe Institute of Technology (KIT) in the field of numerical simulation and optimization of climate models on high-performance computer clusters.
- 10/2002 – 12/2008 **Dipl. Mathematics, University of Karlsruhe, Germany, Grade: 1.3.**  
 Studies with emphasis on numerical mathematics and computer science as subsidiary subject.
- 08/2006 – 07/2007 **Year abroad, University of Linköping, Sweden.**  
 One year abroad in Sweden with the Erasmus program.
- 09/2001 – 05/2002 **Basic Military Service, 1. PzArtLBtl 345, Kusel, Germany.**
- 08/1992 – 06/2001 **Abitur, Leibniz Gymnasium, Neustadt an der Weinstraße, Germany, Grade 1.8.**

## Language Skills

Germany	<b>mother tongue</b>
English	<b>business fluent</b>

## IT Skills

Programming	SQL ●●●●● Python ●●●●● NumPy/SciPy ●●●●● Pandas ●●●●● Scikit-learn ●●●●● Matplotlib/Seaborn ●●●●● PyTorch ●●●●● (Num)Pyro ●●●●● Cython ●●●●● Parallel Programming ●●●●● Databricks Spark ●●●●●
Operating Systems	Linux (LPI Level 1 & NCLA certified) ●●●●● MacOS ●●●●● Windows ●●●●●
Office Software	Word ●●●●● Excel ●●●●● Powerpoint ●●●●●
Miscellaneous	Git ●●●●● Agile Software Development ●●●●● L <sup>A</sup> T <sub>E</sub> X ●●●●●

Köln, 2021/10/23