

# Florian Wilhelm

Principal Data Scientist

Cologne, Germany

✉ [Florian.Wilhelm@gmail.com](mailto:Florian.Wilhelm@gmail.com)



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## Personal Information

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

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## Work Experience

- 04/2016 – today **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:
- building a recommendation engine and user preference service for a large 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 and replenishment for a consumer packaged goods company as project leader. Development of new methods to handle out-of-stock situations,
  - forecasts of the production costs with respect to the commodity market for a large manufacturing company as project leader,
  - optimizations of the algorithms for trade promotion management in an integrated platform for the consumer goods industry,
  - forecasts of price developments and market trends 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).**
- Head of the Research Lab for Application and Innovation at the Institute of Applied and Numerical Mathematics at KIT as Postdoc since 02/2012.
  - Work on the BMBF-funded *Scalable Earth-System-Models for High Productivity Climate Simulations* (ScaleS) project und supervision of the KIT student team for the *Student Cluster Challenge 2012* on the *International Supercomputing Conference* in Hamburg as research assistant.
  - Project management and supervision of students.
- 08/2005 – 09/2008 **Temporary Worker, Siemens AG, Karlsruhe, Germany.**
- Several positions during my studies:
- planning and execution of the migration of the integration department to VMware LabManager for 4 months,
  - modelling of work processes with event-driven process chains for 4 weeks,
- 06/2000 – 08/2004 **Temporary Worker, SAP AG, Walldorf, Germany.**
- Several positions during my studies:
- management of a build&distribution system of software milestones for 4 weeks,
  - programming scripts to support the build&integration team for 8 weeks,
  - programming of an unattended installation tool to set up new developer PCs for 6 weeks,
  - support of the beta testing team for 2 weeks,

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## 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.**

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## Language Skills

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|---------|------------------------|
| Germany | <b>mother tongue</b>   |
| English | <b>business fluent</b> |
| French  | <b>basic knowledge</b> |
| Swedish | <b>basic knowledge</b> |

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## IT Skills

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| Programming         | Python, R, SQL, Java, C, C++, C#   |
| Operating Systems   | Linux (LPI Level 1 & NCLA certified), Unix, Mac OS, Windows  |
| Scientific Software | L <sup>A</sup> T <sub>E</sub> X, NumPy, SciPy, Pandas, Scikit-learn, Matplotlib, Matlab, MPI, OpenMP |
| Office Software     | Word, Excel, Powerpoint, Visio, OpenOffice   |
| Miscellaneous       | Git, Agile Software Development  |



Köln, 2018/08/18