Curriculum Vitae Philipp Wolf

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Personal Information

Date of birth **06.01.1989** Nationality **german** Birthplace **Frankfurt am Main**

Current Position

Data Scientist, Senior Consultant *Record Evolution GmbH*

Education

Master's Degree Theoretical Physics, Goethe Universität

Overall Grade "very good" (1.3) Bachelor's Degree Physics,

Goethe Universität Overall Grade "good" (1.8)

Abitur, Altkönigschule *Overall Grade 2.0*

Project Experience

- Development of a desktop application based on web technologies (electron.js, Vue.js, d3.js, HTML canvas) to control high-precision optical point sensors, which allow non-contact measurement of layer thickness and topography.
- Planning and implementation of a framework in R, which monitors & logs executions of R analyses (credit risk), in order to produce traceable results. This includes saving the results in a generalized output format, as well as keeping track of the current code basis (Git Hash) and storing the input parameters.

Frankfurt am Main since 10/2015

Frankfurt am Main 09/2012 - 04/2015

Frankfurt am Main 10/2009 - 09/2012

Kronberg 1999 - 2008

- Project lead (4 colleagues) for the implementation of a HMI (Human Machine Interface) prototype using web technologies (Vue.js), which was shown at IAA 2019.
- Creating an end-to-end architecture for gathering, cleaning and analysing sensor data in order to build a predictive model (CNN) for specific noise signatures.
- Construction of a prototype for a blockchain based data marketplace (Ethereum & crossbar XBR). Implementation of an decentralized App (Dapp) using React.js, which enables users to purchase & sell data on the marketplace.
- Platform for regular processing of mass data for validation of statistical methods (credit risk).

Knowledge Data Science & Statistics

- Linear and logistic regression models, classification, statistical tests
- Artificial (convolutional) Neural Networks, Gradient Boosting, Decision Trees
- Data preprocessing

Programming Languages & Technologies

- Python, asyncio, Numpy, Pandas, SciPy, scikit-learn, Jupyter, Keras/Tensorflow, Apache Airflow, Django
- R, Tidyverse
- SQL and PLSQL, PostgreSQL, MS SQL Server
- Git, Docker, Kubernetes
- Amazon AWS EC2, S3
- Javascript / Typescript, node.js, electron.js, Vue.js, React, Socket.io, Polymer, lithtml, d3.js
- crossbar.io (WAMP message router)

Languages

German mother tongue **English** very good knowledge

Publications

Lattice study of hybrid static potentials, Philipp Wolf, Marc Wagner *Talk given at a workshop for young scientists with research interests focused on physics at FAIR (Fairness 2014), September 21-27 2014, Vietri sul Mare, Italy. arXiv: 1410.7578*