



# Miguel Fernandes

Data Scientist with the goal to empower people through knowledge

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in amgfernandes

## SKILLS

Python	AI
Git	Life sciences
Machine learning	SQL

## LANGUAGES

Portuguese	English
German	French

## AWARDS

Hans-Grisebach  
Award 2014  
University of  
Freiburg  
Outstanding  
dissertation in  
the field of  
biochemistry  
and molecular  
biology

## WORK EXPERIENCE

### BetterDoc

(October 16, 2022 - Present)

Senior Data Scientist

Developing data-driven approaches to help every patient to get the best possible treatment:

- Data Science (Python, SQL)
- Data Visualization
- Statistical Data Analysis
- Improvement of data quality and data sources
- Automation of workflows (AI, Machine learning)

### DZNE (Deutsches Zentrum für Neurodegenerative Erkrankungen)

(March 01, 2021 - September 30, 2022)

Head of the Image and Data Analysis Facility  
(IDAF)/Data Scientist

- Managing a team of Data Scientists
- Data Science (artificial Intelligence, deep learning, machine learning, statistical analysis)
- Development of machine learning algorithms for predicting drug activity, toxicity, or mechanism of action (high-content screening)
- Consulting and teaching data analysis and visualization techniques

### Max Planck Institute of Neurobiology

(September 01, 2013 - February 28, 2021)

Researcher/Data Scientist

- Analysis and visualization of complex datasets
- Employment and development of diverse **machine learning** tools (supervised and unsupervised learning algorithms)

## EDUCATION

### University of Freiburg

(April 01, 2009 - August 31, 2013)

PhD, Neuroscience, Biology

- Data analysis of imaging and time-series data
- Development of molecular and transgenic tools for neural circuit dissection
- Confocal imaging of *in vivo* and *in vitro* brain samples

## INTERESTS

Reading, Football, Martial Arts,  
Biking, Cooking

Collaborator Open Neuroscience:  
<https://open-neuroscience.com/>

## CERTIFICATIONS

Machine Learning with  
Python  
Coursera

(April 14,  
2020)

Databases and SQL for Data  
Science with Python  
Coursera

(May 01,  
2021)