

Miguel Fernandes

DATA SCIENTIST WITH THE GOAL TO EMPOWER PEOPLE THROUGH KNOWLEDGE



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Date Of Birth

03 January 1985

LinkedIn

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AWARDS

Hans-Grisebach Award 2014

University of Freiburg

Outstanding dissertation in the field of biochemistry and molecular biology

CERTIFICATIONS

Machine Learning with

Python

Coursera

April 2020

Databases and SQL for Data

Science with Python

May 2021

Coursera

LANGUAGES

Portuguese

English

Native

Fluent

German Fluent French Basic

HOBBIES

Reading, Football, Martial Arts, Biking, Cooking

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

EXPERIENCED DATA SCIENTIST FASCINATED BY THE ANALYSIS OF COMPLEX DATASETS TO GAIN VALUABLE INSIGHTS AND IMPROVE DECISION-MAKING

- Capable of gaining actionable knowledge and learning new methods.
- Committed team player with strong leadership skills, who thrives on cross-functional teams.
- Natural communicator capable of distilling complex information to crucial points and presenting to broad audiences.

SKILLS

Python Bash

ImageJ/FIJI AI

Git Life sciences

Computer Vision Molecular Biology

PROFESSIONAL EXPERIENCE

DZNE (Deutsches Zentrum für Neurodegenerative

Erkrankungen)

Visualization

(March 2021 - Present)

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

 Managing a team of Data Scientists (implementing the strategy for the team, communication, budget management)

Machine learning

- **Data Science** (artificial Intelligence, deep learning, machine learning, statistical analysis)
- Drug development (image-based profiling with CellProfiler)
- Development of machine learning algorithms for predicting drug activity, toxicity, or mechanism of action (high-content screening)
- Software Development for image analysis (Python, OpenCV, ImageJ/Fiji macros)
- Consulting and teaching of data analysis and visualization techniques (e. g. Matplotlib, Seaborn)
- Complex data analysis supporting **Research and Development** projects

Max Planck Institute of Neurobiology

(September 2013 - February 2021)

Researcher/Data Scientist

- Analysis and visualization of complex datasets
- Employment and development of diverse machine learning tools and analysis of unstructured datasets (supervised and unsupervised learning algorithms)
- Establishment and maintenance of advanced imaging technologies
- High-resolution object tracking using computer vision (e.g. OpenCV)
- Analysis of 3D/4D biological data (Python, Bash, CMTK, ANTs, and Image J Macro scripts)

EDUCATION

University of Freiburg

PhD Neuroscience, Biology

(April 2009 - August 2013)

- Construction of behavioral setups and analysis of imaging and timeseries data.
- Development of molecular and transgenic tools for neural circuit dissection
- Confocal imaging of in vivo and in vitro brain samples
- Development of Immunohistochemistry and Fluorescent in situ
 Hybridization techniques

University of Porto
Licentiate (Masters equivalent) Biology

(September 2003 - September 2008)