

Miguel Fernandes

DATA SCIENTIST WITH THE GOAL TO EMPOWER PEOPLE THROUGH KNOWLEDGE



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Date Of Birth

03 January 1985

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SKILLS

Python	Bash
ImageJ/FIJI	AI
Git	Life sciences
Visualization	Machine learning
Computer Vision	Molecular Biology

AWARDS

Hans-Grisebach Award 2014 University of Freiburg

Outstanding dissertation in the field of biochemistry and molecular biology

CERTIFICATIONS

Machine Learning with	انه م ۸
Disthesia	April
Python	2020
Coursera	

Databases and SQL for Data
Science with Python
Coursera

May
2021

EXPERIENCED DATA SCIENTIST FASCINATED BY THE ANALYSIS OF COMPLEX DATASETS TO GAIN VALUABLE INSIGHTS

- Capable of gaining actionable knowledge and learn new methods.
- Committed team player with strong leadership skills, who thrives on crossfunctional teams.
- Natural communicator with a strong ability to distill complex information to crucial points and present to broad audiences.

PROFESSIONAL EXPERIENCE

DZNE (Deutsches Zentrum für Neurodegenerative Erkrankungen)

(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)
- Data Science (artificial Intelligence, deep learning, machine learning, statistical analysis)
- Drug development (image-based profiling for lead compounds discovery with CellProfiler)
- Development of machine learning algorithms for predicting drug activity, toxicity, or mechanism of action (high-throughput screening data analysis)
- Software Development (Python, Image]/Fiji macros for image analysis)
- Consulting and teaching of data analysis and visualization techniques
- Quantitative Microscopy (automated object detection in microscopy images)

Max Planck Institute of Neurobiology

(October 2013 - February 2021)

Researcher/Data Scientist

- Development of computational approaches (analysis and visualization of transcriptomics datasets
- Employment and development of diverse machine learning algorithms to imaging and unstructured numeric data (supervised and unsupervised learning algorithms)
- Establishment and maintenance of advanced imaging technologies for neuronal activity recording and manipulation
- High-resolution behavioral tracking (video recording and object tracking using computer vision, e.g. OpenCV)
- Analysis of 3D/4D biological data (Bash, CMTK, ANTs, and Image J Macro scripts)

EDUCATION

University of Freiburg

PhD Neuroscience, Biology

(April 2009 - August 2013)

- Confocal imaging of in vivo and in vitro brain samples
- Development of molecular and transgenetic tools for neural circuit dissection Pharmacogenetic ablation of cells, large genomic and RNA data analysis, DNA/RNA handling, PCR, and molecular cloning.
- Construction of behavioral setups and analysis of imaging and time-series data.
- Immunohistochemistry and Fluorescent in situ Hybridization techniques

University of Porto
Licentiate (Masters equivalent) Biology

(October 2003 - October 2008)

LANGUAGES

Portuguese Native	English Fluent
German	French
Fluent	Basic

HOBBIES

Reading, Football, Martial Arts, Biking, Cooking

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