

Miguel Fernandes

DATA SCIENTIST WITH THE GOAL TO EMPOWER PEOPLE THROUGH KNOWLEDGE



Address

Neckarstr. 36 53175, Bonn

Phone Number 0049-1523-7014457

Website

https://www.neuroeduai.com/

Email Address

amgfernandes@protonmail.com

Date Of Birth

03 January 1985

LinkedIn

amgfernandes

AWARDS

Hans-Grisebach Award 2014 University of Freiburg

Outstanding dissertation in the field of biochemistry and molecular biology

CERTIFICATIONS

Machine Learning with Python

April 2020

Coursera

Databases and SQL for Data

Science with Python

May 2021

Coursera

LANGUAGES

Portuguese Native

English

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

Presentation Problem-solving

Python Bash Al Git

Life sciences Visualization

Machine learning Molecular Biology

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 to stakeholders, budget management)
- **Data Science** (artificial Intelligence, deep learning, machine learning, statistical analysis)
- Software Development for data analysis (Python, NumPy, Pandas, Scikit-learn, OpenCV)
- 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 (e. g. Matplotlib, Seaborn)
- Complex data analysis supporting **Research and Development** projects

Max Planck Institute of Neurobiology

Researcher/Data Scientist

(September 2013 - February 2021)

- Analysis and visualization of complex datasets (Python, Python, NumPy, Pandas, Scikit-learn, Seaborn)
- 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)