



DIANA FERREIRA

PhD IN BIOMEDICAL ENGINEERING

PROFILE

Name: Diana Lisandra Azevedo Ferreira

Birth Date: 16/06/1995

Nationality: Portuguese

ORCID: 0000-0003-2326-2153

“An ambitious and dedicated Biomedical Engineering with a huge interest and enthusiasm for informatics and computer science.

SOFT SKILLS

- Autonomy;
- Resilience;
- Assertivity;
- Cooperation and teamwork;
- Problem-solving and decision-making;
- Organization;
- Time management;
- Responsibility;
- Dedication;
- Flexibility and potential for learning;
- Creative thought;
- Strategic planning.

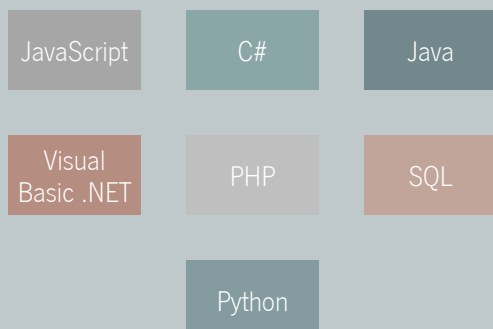
LANGUAGES

Portuguese ● ● ● ● ●

English ● ● ● ● ●

Francês ● ● ● ● ●

PROGRAMMING LANGUAGES



ACADEMIC JOURNEY

PhD in Biomedical Engineering

University of Minho, Campus de Gualtar, Braga

Feb 2019 – Oct 2024

Integrated Masters Degree in Biomedical Engineering

University of Minho, Campus de Gualtar, Braga

1st cycle

Set 2013 – Jul 2016

Graduation in Biomedical Engineering

2nd cycle

Set 2016 – Set 2018

Master in Medical Informatics



TECHNICAL SKILLS

Skills in terms of analysis, development, and implementation of **information systems**, particularly in a hospital environment, acquired during the master's dissertation which obtained a final grade of 19. The dissertation involved the construction of a dynamic and interactive platform that allows the consultation and management of the webservices' performance of the ULSdSA in order to monitor operations and study processes, improving operational performance. This platform not only enabled the acquisition of knowledge in front-end **web programming** (ReactJS, Hooks, Redux, JavaScript, HTML, CSS) and associated libraries (bootstrap, ant design, tailwind), but also in back-end (PHP, Node.js).

Knowledge of **software engineering**, specifically web application development and **system automation** (APIs, REST, and Webservices).

Skills in **knowledge discovery and extraction** and **data systems (analysis, processing, and exploitation)** related to decision support systems and **data science**, (analytical data processing, data warehouse, data mining, and business intelligence).

Interoperability knowledge in hospital settings and **Databases** (MySQL, Oracle, PostgreSQL, NoSQL).

Skills in **artificial intelligence** and related areas such as **machine learning** and **deep learning**.

Generic robotic knowledge (**framework ROS**) and experience in real-time data transmission (**MQTT, WebSockets, WebRTC**).

Experience with several tools and frameworks (eclipse, NetBeans, IntelliJ, Microsoft Visual Studio .NET, WebStorm, DataGrip, Weka, RapidMiner, Microsoft Power BI).

Familiarity with various text editors (Atom, Sublime Text e Notepad++) and mastery of *software* Microsoft Office (Word, Excel, Power Point).



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DIANA FERREIRA

MASTER IN BIOMEDICAL ENGINEERING

EVENTS

Additional Education

2024 – 2nd European Summer School on Artificial Intelligence (ESSAI) - National Centre for Scientific Research "Demokritos", Athens, Greece

2023 - 1st European Summer School on Artificial Intelligence (ESSAI) - University of Ljubljana, Slovenia

2017 – First Aid Course, Portugal

Course Trainer

2024 – 1st Edition openEHR Course, Science and Letters, Portugal

Event Organization

2023 – International Conferences: PAAMS, MIS4TEL, DCAI, BLOCKCHAIN, ISAmI, PACBB and DECON – University of Minho, Guimarães, Portugal

2021 - AISCOVID19 - 2nd EAI International Conference on AI-assisted Solutions for COVID-19 and Biomedical Applications in Smart-Cities – Cyberspace

Conference Participation

2021 – Online Conference Presentation in AHFE - 12th International Conference on Applied Human Factors and Ergonomics - New York, USA

2021 – Online Conference Presentation in ICADS 2021 - The 2021 International Conference on Advances in Digital Science - Salvador, Brasil

2019 – On-site Conference Presentation in WorldCist'19 - 7th World Conference on Information Systems and Technologies - La Toja, Galicia, Spain

EXTRACURRICULAR ACTIVITIES

2021 – Biomedical Engineering PhD student representative on the course committee

2017/2021 – Volunteer at the Association for the Defense of Animals and the Environment of Vila Verde (ADAADV)



WORK EXPERIENCE

Research Grant

2024/ongoing – Be.Neutral - Agenda de Mobilidade para a neutralidade carbónica nas cidades

2021/2024 – Research grant from the Foundation for Science and Technology (FCT)

2020/2021 – Easy Ride: Experience is Everything
Bosch Car Multimedia - BOSCH AND UMINHO PARTNERSHIP

2019 – DRIVES: Development and Research on Innovative Vocational Education Skills

2018 – iFACTORY: New industrialization capacities
Bosch Innovative Car HMI - BOSCH AND UMINHO PARTNERSHIP

Invited Assistant Professor

2022, 2023, and 2024 – Databases – University of Minho
Graduation and Masters in Informatics Engineering

2020 – Learning and Knowledge Extraction Systems – University of Minho
Graduation and Masters in Biomedical Engineering

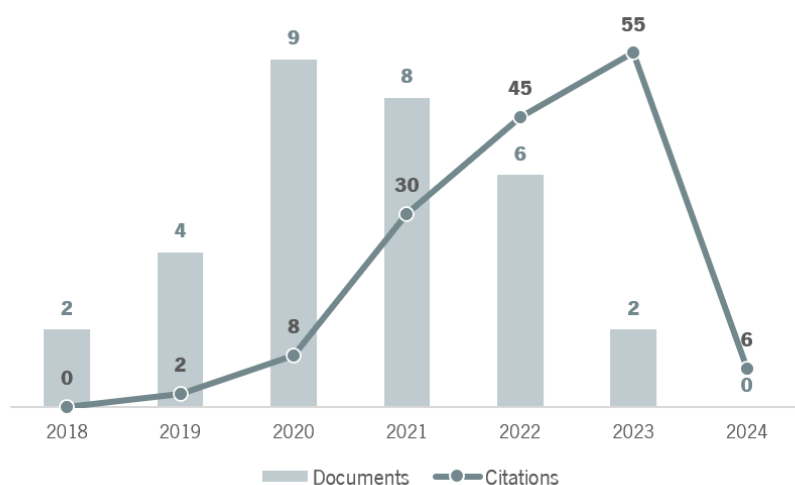
2020 – Development of Hybrid Applications for Mobile Devices – Polytechnic Institute of Cávado and Ave (IPCA)
Mobile Development Training

Member of ALGORITMI center – Knowledge Engineering Group (KEG)

2018 – ongoing – School of Engineering, University of Minho, Gualtar, Braga



SCIENTIFIC PUBLICATIONS



The full list of publications can be found at:

<https://www.scopus.com/authid/detail.uri?authorId=55759511521>



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