José María Pacheco Benítez

Data Analyst/Bioinformatician

Biotechnologist specializing in bioinformatics, data analysis, and AI consulting, with a proven track record in clinical applications and research, demonstrating decisiveness and versatility. Former Senior Laboratory Technician at the University of Brighton and Sussex Medical School, responsible for biosafety and managing the biobank of human cell tissues. Equipped with a multidisciplinary background, from clinical analysis to genomic medicine, pharmacogenetics, and nutrigenetics, and a strong orientation towards new technologies and emerging methodologies in science, research, and AI applications.

Contact

+34 692 83 60 50

jmpb.biotec@gmail.com

GitHub
LinkedIn
Jerez de la Frontera, Cádiz, Spain

Expertise

- Use of IA tools that span from content creation to business automation such as GPTs, ChatGPT, Gemini, Copilot, Copilot Studio, Midjourney, DALL·E, and Runway, Elevenlabs., VoiceFlow, Llama 3 and Make.

- Programming languages: Python, SQL, R and GNU/Linux.

- Bioinformatics tools and software: Ggplot2, QIIME2, SRAtools, Fastqc, Chimera, DADA2, PatchDock, PyDock, Hisat2, EdgeR, SnapGene and BLAST.

- Microsoft Office Pack and Power BI

- 3D Modeling – ADAS 3D, MicroDiom, and VTK files management.

- KNIME and related Python libraries such as NumPy, Panda, PySpark

- Anaconda, GitHub and Jupyter Labs

Language

English
Spanish

Experience

October 2024 – Present day
Ioncure Tech Pvt. Ltd - Remote

Bioinformatics Intern

- Analyzing Microbiome Bacteria and Fungi for Serotonin Interactions:
- Literature Search and Database Exploration. Gene Identification and Annotation
- Pathway Reconstruction. Cellular Signaling Analysis
- Structure Prediction and Molecular Docking

May 2024 – September 2024
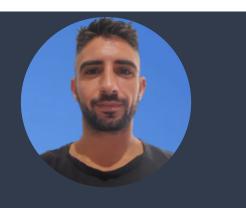INiBICA l Hospital Puerta del Mar, Cádiz.

Bioinformatics Intern, Cardiology Department

- 3D Modeling of the Left Atrial Appendage (LAA) using ADAS 3D and Python: Developed scripts for loading .vtk files, analyzing components, and feature-based grouping.
- ECG Signal Processing in Python: Created scripts for noise filtering, peak detection, and data visualization using libraries like NumPy, Pandas, SciPy, and Matplotlib, supporting medical diagnostics and research.

May 2023 – May 2024
Alifax Spain SL, Responsible for Andalucia and Extremadura

Microbiology Product Specialist

- Engaged with key opinion leaders (KOL) in the regions of Andalucia and Extremadura to build strong relationships and support product adoption.
- Installed and set up medical devices, including haematology and microbiology equipment, in various healthcare facilities.
- Provided comprehensive training to healthcare professionals and staff on the use and maintenance of medical devices, ensuring smooth operation and compliance with protocols.
- Oversaw studies, validation protocols, and case reports to ensure accuracy and adherence to industry standards.
- Acted as a liaison between the company and clients, addressing any technical issues and providing ongoing support to enhance customer satisfaction.

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Soft Skills

- Adaptability
- Teamwork
- Problem-solving
- Communication
- Proactivity
- Organization
- Resilience
- Attention to Detail
- Multitasking
- Time Management

October 2019 – April 2022
Brighton and Sussex Medical School (BSMS), Brighton
Senior Laboratory Technician

- Served as the Biosafety Officer and Lab Manager for Containment Level 2 (CL2) Microbiology and Tissue Culture Labs.
- Managed Human Tissue Authority (HTA) projects, including database oversight with Freezer Pro Software and SQL, as part of the Human Tissue Committee.
- Assisted in collecting and processing COVID-19 samples for a tissue bank, supporting immune response research; trained in venepuncture, PBMC preparation, and patient consent.
- Developed, reviewed, and audited laboratory documentation, including Codes of Practice, Risk Assessments, COSHH forms, and Standard Operating Procedures (SOPs).

December 2018 – September 2019
Brighton and Sussex Medical School (BSMS), Brighton
Tissue Culture Research Technician

- Provided training for new staff and students on Tissue Culture and lab practices
- Maintained and repaired lab equipment.
- Conducted mycoplasma tests and other experiments to ensure culture integrity
- Managed consumables and stock, ensuring availability and efficient resource allocation.

Education

September 2024 – November 2024
Expert Degree in Artificial Intelligence - Big School - Universidad Isabel I

October 2023 – On going
MSc Degree in Bioinformatics - International University of Valencia

October 2021 – August 2023
MSc Degree in Clinical Analysis. (9.89/10) - CEMP and Catholic University of Murcia

September 2021 – January 2022
Expert Degree in Genomic Medicine, Farmacogenetics and Nutrigenetics (9.11/10) - Genotipia and Catholic University of Murcia

October 2012 – March 2017
Degree in Biotechnology; specialty Biomedicine (7.41/10) - University of Cadiz

Certifications & Professional Development

Professional Certificate – Data Science - IBM. 06/2024 – 10/2024.

Power BI – IBM y Datahack School. 06/2024

MOOC Machine Learning and Big Data for Bioinformatics. Universidad de Granada. 06/2024

Professional Certificate – Google IT Automation with Python. Certified by Coursera and Google. 06/2023

Professional Certificate – Google Data Analysis. Certified by Coursera and Google. 05/2023

Professional Certificate – Google Information Technology Support. Certified by Coursera and Google. 05/2023

Cibersecurity course "Hackea tu futuro". The Valley Digital Business School and Barrabés. Certified by red.es 04/2023

Health and Safety advisor course. Certified by CEMP. 01/2023

Online course "Genomic in Rare Diseases". Certified by Genotipia and Illumina. 12/2021

ISTR Biosafety Level 1 Course – Novel and Dangerous Pathogens Training Microbiology Services – Public Health England. 17-21st May 2021.