

Camila Guerrero De Blois

Biomedical scientist and computational biologist looking to join an applied bioinformatics team
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Professional Summary

I am a **strategic, fast-learner, and team leader** biomedical scientist and bioinformatician with over **4 years** of experience in **cancer translational research**. My scientific career has been dedicated to **applying computational, statistical, and analytical methods** to understand **biological and clinical data** and translate these findings into **personalized treatment strategies** for oncological patients.

I am passionate about bridging the gap between laboratory bench discoveries and patient care using **big data, multi-omics and AI** and aspire to work in a **collaborative research environment** that fosters leadership, communication and innovation to advance our understanding of human diseases.

Work history

Postdoctoral researcher and bioinformatician

06/2024 – Current

Cancer Center Clínica Universidad de Navarra – CIMA

- Coordinating high-impact projects involving NGS experiments (RNAseq, scRNAseq, targeted sequencing and WES) effectively aligning over 600 patient samples with cross-functional team priorities

PhD researcher in bioinformatics and translational research

10/2020 – 06/2024

Cancer Center Clínica Universidad de Navarra

- Recipient of a **predoctoral fellowship grant** from the Spanish Institute of Health Carlos III (PFIS) for a total of 119.567€
- **Over 6 publications** in top hematology and oncology journals (+3 under review)
- **6 oral presentations** and **4 awards** in competitive national and international conferences
- **Strategically led a multi-omics bioinformatics project** involving the analysis of over **700** patients' samples to enhance the understanding of myeloma's pathobiology and resistance mechanisms
- **Optimized pipelines** for automated transcriptomics and genomics data analysis (RNAseq, scRNAseq, WES), cutting costs and processing time by over 50%, demonstrating a solution-oriented approach and ability to see the bigger picture
- **Developed a machine learning model** integrating clinical, genetics, and tumor immune microenvironment data achieving >70% accuracy in predicting undetectable MRD and **deployed** an open-access diagnostic calculator widely used in clinical settings
- **Collaborated** effectively in a cross-functional COVID-19 research team to identify immune biomarkers predicting vaccine efficacy in hematological patients, showcasing **flexibility, a "can do" attitude, and excellent teamwork**
- **Applied** Fine-Gray statistical analysis to develop a predictive model for MRD resurgence and progressive disease in myeloma, identifying three key risk factors and guiding informed strategic decision-making
- **Engineered a mathematical model** to classify myeloma patients with an MGUS-like phenotype, improving clinical outcome predictions, and facilitated its use through an open-access tool utilized by over 20 clinicians, reflecting innovation and openness to new ideas.

Education

Universidad de Navarra	PhD, Applied biomedicine and bioinformatics, cum laude	2020 – 2024
Universidad de Navarra	MsC, Biomedical Research	2019 – 2020
Universidad de Navarra	BASc, Biochemistry	2015 – 2019

Certifications

- Machine Learning Foundations: A Case Study (University of Washington, [W5WYTPPMR5SS](#); 18h)
- Machine Learning: Classification (University of Washington, [PHYSDTMDYLX2](#); 18h)
- Foundations: Data, Data, Everywhere (Google, [47CK5ZX86N6K](#); 18h)
- Prepare Data for Exploration (Google, [4PR2ES2T26PM](#); 25h)
- Ask Questions to Make Data-Driven Decisions (Google, [Z9HTKSUQM6L3](#); 21h)

Skills

- **Programming:** R, Unix/Bash command line, Python. Beginner SQL
- **Omics:** pipeline development using Snakemake and Nextflow, genomics (WES), transcriptomics (bulk and single cell – 10X genomics), bioinformatics libraries (DESeq2, Seurat, R stats, etc.)
- **Machine learning and biostatistics:** classification, regression, PCA, survival and landmark analyses, Python scikit-learn
- **Data analytics:** advanced data visualization in R (ggplot2), clinical trials data management and analytics
- **Scientific communications:** excellent public speaking and writing skills

Languages: Spanish: Native | English: Fluent; Cambridge C2-CPE Proficient level (Score: 221/230)

Soft skills: Problem-solving | Critical thinking | Time-management | Leadership | Curiosity