Alba Refoyo-Martínez

Driven by curiosity and a strong sense of organization, I develop reproducible pipelines, create containerised environments, and apply advanced modelling to tackle challenges in omics and health data. With 6+ years of bioinformatics expertise, I focus on meaningful insights through efficiency, reproducibility, and FAIR principles. I'm seeking an inspiring role where I can contribute meaningfully while continuing to grow, innovate, and challenge myself.

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SKILLS

- Bioinformatics workflows & pipeline development
- Data analysis & visualization
- Data management
- Omics data integration
- Collaboration in cross-disciplinary groups
- Cloud computing & containerization

EXPERTISE

- Python & R
- Docker & Conda
- Snakemake & Nextflow
- nf-core
- Git & GitHub
- Shiny

PERSONAL QUALITIES

- Motivated by challenges
- Proactive learner
- Highly organized
- Analytical
- Independent
- Decision-making
- Positive

LANGUAGES

- English: proficiency
- Spanish: native
- Danish: beginner

VOLUNTEERING

- Conference chair, Evolutionary and Population Genetics in Denmark – EPIC 2023
- Conference organizer, Evolutionary and Population Genetics in Denmark – EPIC 2022
- Member, Globe PhD Committee

EXPERIENCE

University of Copenhagen

Data scientist
Section for Health Data Science and AI, Public Health Feb 2024 - Present

- Developed and deployed containerised training modules on Danish HPC systems for omics data
- Designed toolkits for efficient research data management (RDM)
- Optimised workflows for large-scale omics pipelines
- Delivered workshops on containerisation, HPC, scalable and reproducible workflows, and data science practices
- Maintained version-controlled GitHub repositories and managed project documentation using Quarto

Postdoctoral researcher
Section for Molecular Ecology and Evolution, Globe Institute Nov 2022 – Jan 2024

- Developed and optimised computational pipelines for processing omics data
- Implemented novel computational tools tailored to specific research inquiries
- Conducted genetic modelling in collaboration with Variant Bio to explore genetic variation and disease mechanisms.

PhD student
Lundbeck Foundation Geogenetics Centre, Globe Institute Oct 2019 - Oct 2022
Department of Integrative Biology at University of California, Berkeley Sep 2022 - Oct 2022

- Developed computational pipelines for genomic data analysis
- Utilised whole-genome sequence data to predict genetic disease risk
- Performed data visualization of complex time-series genomic data

Graduate researcher Apr 2018 - Sep 2019

- Developed R-based software to identify genetic selection signatures in next-generation sequencing (NGS) data

EDUCATION

Doctor in Philosophy (DPhil), Bioinformatics — ***University of Copenhagen*** **2019-2022**
Change of research environment — *University of California, Berkeley* Sep. 2022

Master of Science (MSc) in Bioinformatics — ***University of Copenhagen*** **2017-2019**
Elective student — *Copenhagen Business School*

Bachelor of Science (BSc) in Health Biology — ***Universidad de Alcalá*** **2013-2017**
Erasmus program — *Vrije Universiteit Brussel* 2016-2017

SCIENCE COMMUNICATION

I have contributed to numerous high-impact publications and developed my communication skills by presenting at global conferences. Check **My Google Scholar** to see the list of publications.