

# Alba Refoyo-Martínez

## PERSONAL DETAILS

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Github:  
<https://github.com/albarema>

## SKILLS

- Statistical data analysis
- Data management
- Data visualization
- Project management in cross-disciplinary groups
- Bioinformatics
- Software development

## LANGUAGES

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

## EXPERTISE

- R
- Python
- Conda
- Docker & Singularity
- Snakemake & Nextflow
- Bash scripting
- Git & GitHub

## PERSONAL QUALITIES

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

## PROFILE

I am an experienced bioinformatician and data scientist with 6 years of expertise in managing international collaborative research projects, developing open-source, reproducible computational pipelines, and applying advanced mathematical modelling to large omics datasets.

My work focuses on omics and health data, leveraging statistical analysis, machine learning, and data visualization to derive meaningful insights. I specialize in building containerized environments, ensuring version control, and staying at the forefront of computational tools and best practices. I am committed to maintaining efficiency and reproducibility, while adhering to FAIR principles to foster collaboration and enable impactful research.

## EXPERIENCE

### University of Copenhagen

#### Data scientist

Feb 2024 - Present

- Developed and deployed containerised applications on HPC systems using omics data
- Designed toolkits for efficient research data management (RDM)
- Consulted with researchers to optimize workflows for omics pipelines
- Delivered workshops on containerization, HPC, scalable and reproducible workflows, and data science practices
- Maintained version-controlled GitHub repositories and Github Pages using Quarto

#### Postdoctoral researcher

Nov 2022 – Jan 2024

- Optimised computational pipelines for processing omics data
- Developed novel computational tools to specific research inquiries
- Conducted genetic modelling in collaboration with Variant Bio

#### 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
- Predicted genetic disease risk from whole-genome sequence data
- Performed data visualization of complex time-series genomic data

#### Master's student

Apr 2018 - Sep 2019

- Developed software in R to identify genetic selection using NGS data

## EDUCATION

#### Doctor in Philosophy (DPhil)

Change of research environment

University of Copenhagen

2019-2022

University of California, Berkeley

Sep. 2022

#### Master of Science (MSc) in Bioinformatics

Elective student

University of Copenhagen

2017-2019

Copenhagen Business School

#### Bachelor of Science (BSc) in Health Biology

Erasmus program

Universidad de Alcalá

2013-2017

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.

## VOLUNTEERING

- Conference chair (Evolutionary and Population Genetics in Denmark – EPIC 2023)
- Conference organizer (Evolutionary and Population Genetics in Denmark – EPIC 2022)
- Globe PhD Committee member organizing the GLOBE PhD Day 2022