Pablo Garcia-Nieto

Product Manager
Computational Biologist

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Profile

Computational biologist with +7 years of experience in omics research. Product manager with 3 years of experience delivering products for access and analysis of large-scale single-cell data. I can effectively lead teams to identify high value research workflows and drive the delivery of processes or products that accelerate them.

Employment

Chan Zuckerberg Initative

2024 — 2022 **Product Manager**

Defined, developed, and launched single-cell software products for computational biologists. Led a team of engineers and UXR to deliver a service to access and analyze the largest repository of single-cell data. Implemented AI-based integration of data.

2022 — 2020 **Computational Biologist**

Developed and prototyped algorithms for processing and analysis of single-cell data. Collaborated with engineers to bring the methods to production for 1000+ datasets (cellxgene.cziscience.com).

Research hihglights

For all publications see pablo-gar.github.io

Landscape of human somatic mutations

Developed computational methods to identify and analyze somatic mutations for 10,000+ samples from 500+ people. Garcia-Nieto et al. Genome Biology, 2019.

Carcinogen susceptibility in humans

Developed a sequencing technology to understand how DNA damage accumulates in the genome. Garcia-Nieto PE et. al. EMBO J. 2017

Education

2020 — 2015 **Stanford University**

Ph.D. in molecular and computational biology.

2013 — 2009 **National University of Mexico**

B.Sc. in genomics.

Key Skills

Computational Biology

- Strong statistics
- Python, R & shell
- AWS
- Git & Github
- Single-cell analysis
- Multi-assay genomic analysis
- Bio toolkits (Samtools, BCF tools etc)
- ML for bio (sklearn and PyTorch)

Product Management

- Agile and waterfall frameworks
- Value-based prioritization
- Risk management
- Product launches
- Market analysis
- Leading cross-functional teams