ENRIQUE (QUIQUE) VIDAL

From physics and statistics to bioinformatics and genomics through epidemiology. Data scientist helping to ask and answer questions quantitatively. R'ing all the way from data processing to modeling and visualizing. Non-stoplearner

EDUCATION

Universidad Autónoma de Madrid 2011

PhD. in Epidemiology Madrid, Spain

Anisotropic models to study cancer mortality around poullutant sources

Universitat de València 2006

2019

Now

2015

2015

2012

2011

2011

2009

♥ Valencia, Spain Degree in Statistics

Universitat de València 2005

Degree in Physics ♥ Valencia, Spain

CONSULTING EXPERIENCE

Statistics and bioinformatics

Parcelona, Spain Ferrer Corporate

• Multiclass classifier for prediction • Implementation of a workflow for of tumor origin mutation detection

■ RESEARCH EXPERIENCE

Postdoctoral Researcher

Center for Genomic Regulation (CRG) Parcelona, Spain

Acting as head of computational biology for the 4DGenome Unit:

· Implemented a reproducible workflow for genome structure samples

- Developed a bias-correction
- method for genome structure data
- Visualization tools based on shiny
- · Context-specific analysis for the study of the dynamics of genome structure

Bellvitge Biomedical Research Institute (IDIBELL) Parcelona, Spain

· Integrative analysis of epigenomic data

Postdoctoral Researcher

Postdoctoral Researcher 2012

> Principe Felipe Research Center (CIPF) **♥** Valencia, Spain

• Implementation of the platform to analyze exomes for rare diseases (CIBERER-BIER)

Bioinformatician / Biostatistician

♥ Valencia, Spain Principe Felipe Research Center (CIPF)

 Network analysis and multilevel modeling in the context of signaling pathways

CONTACT INFO

github.com/qenvio

Thesis text and slides (in Spanish)

SKILLS

R Bash SQL

Python

dryhic R package

for genome structure data. It includes OneD bias correction method using GAMs

Last updated on 2019-09-16.

2009 2006	■ Biostatistician National Center for Epidemiology • Analysis of mortality time-trends • Disease mapping (spatio-temporal smoothing) • Assement of risk factors associated with pollution	
	TEACHING EXPERIENCE	
2017 2016	■ Biostatistics, Epidemiology and Public Health Instructor	Medical degree
2011	■ Basic Epidemiology Coordinator and instructor Valencian School for Health Studies (EVES) ■ Valencia, Spain	Professional training
2009 2008	■ Biostatistcis and Epidemiology Instructor	M.S. Public Health
2009 2008	● Statistical analysis with R (2 editions) Coordinator and Instructor Carlos III Institute of Health (ISCIII) ● Madrid, Spain	Professional training
	SELECTED TALKS	
2019	● Simple statistical models for complex 3D genome data Statistical Methods for Post Genomic Data ● Barcelona, Spain	Slides
2019	OneD: increasing reproducibility of Hi-C samples with abnormal karyotypes Keystone Symposia: Chromatin Architecture and Chromosome Organization; ISCB Next Generation Sequencing Conference → Whistler, British Columbia, Canada Awarded with "Outstanding presentation prize"	Poster
2008	■ Segmented Poisson models The R User Conference	Slides
	SELECTED PUBLICATIONS	
First autho	or publications in peer-reviewed journals	
2019	 Hormone-control regions mediate steroid receptor– dependent genome organization doi.org/10.1101/gr.243824.118 ◆ Genome Research 	Full list of publications accesible here
2018	 Transcription factors orchestrate dynamic interplay between genome topology and gene regulation during cell reprogramming doi.org/10.1038/s41588-017-0030-7 ♥ Nature Genetics 	TICIC

2018	•	OneD: increasing reproducibility of Hi-C samples with abnormal karyotypes	
		doi.org/10.1093/nar/gky064	Nucleic Acids Research
2017		Copy number rather than epigenetic alterations are the major dictator of imprinted methylation in tumors doi.org/10.1038/s41467-017-00639-9 ◆ Nature Communications	
2017		A DNA methylation map of human cancer at single base- pair resolution	
		doi.org/10.1038/onc.2017.176	♥ Oncogene