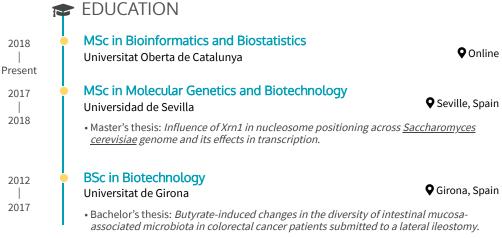# ADRIÀ MITJAVILA VENTURA

Bioinformatician at *Istituto Europeo di Oncologia* | MSc

Biotechnologist living around computers, interested in data analysis to support experimental research as well as in pure (bio)computational experiments and in software/pipeline development.

💻 EXPERIENCE

Bioinformatician
Istituto Europeo di Oncologia, Pasini's lab
📍 Milan, Italy
07/2019 | Present

- Analysis and integration of RNA-seq, ChIP-seq and ATAC-seq data.
- Development of a Snakemake pipeline for ATAC-seq.

Master's thesis student & Research assistant
Instituto de Biomedicina de Sevilla, Gene expression lab
📍 Seville, Spain
09/2017 | 10/2018

- Analysis of MNase-seq data.
- Performance and analysis of MNase-qPCR experiments.

Internship & Bachelor's thesis student
Microbial. Sistemes i aplicacions analítiques, S.L.
📍 Girona, Spain
09/2016 | 06/2017

- qPCR of intestinal biopsies to detect/quantify bacterial genres.
- Statistical analysis of high-throughput sequencing data to quantify bacteria species.

🎓 EDUCATION

MSc in Bioinformatics and Biostatistics
Universitat Oberta de Catalunya
📍 Online
2018 | Present

MSc in Molecular Genetics and Biotechnology
Universidad de Sevilla
📍 Seville, Spain
2017 | 2018

- Master's thesis: *Influence of Xrn1 in nucleosome positioning across Saccharomyces cerevisiae genome and its effects in transcription.*

BSc in Biotechnology
Universitat de Girona
📍 Girona, Spain
2012 | 2017

- Bachelor's thesis: *Butyrate-induced changes in the diversity of intestinal mucosa-associated microbiota in colorectal cancer patients submitted to a lateral ileostomy.*

📖 PUBLICATIONS

2020

Xrn1 influence on gene transcription results from the combination of general effects on elongating RNA pol II and gene-specific chromatin configuration
Begley V *et al*. RNA Biology. DOI: 10.1080/15476286.2020.1845504.

CONTACT

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SKILLS

Omics data analysis:

Microarray, RNA-/ChIP-/ATAC-/MNase-seq

Programming/scripting:

R/Bioconductor, Python, Bash

Other (informatics):

R Markdown, Snakemake, Conda, Docker, Git

Experimental:

(RT-)(q)PCR, primer design, electrophoresis, WB, MNase-digestion, bacterial culture

Languages:

Catalan (Native), Spanish (Native), English (C1 - IELTS 7.5), Italian (Basic)

DEVELOPMENT

chromHMMviewR

DPomics (*ongoing*)

ATAC-seq snakemake (*ongoing*)

More on my GitHub profile