

# 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

- 07/2019  
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Present
- Bioinformatician**  
*Istituto Europeo di Oncologia, Pasini's lab* 📍 Milan, Italy
- Study of Wnt/ $\beta$ catenin signaling pathway -and others- in the context of colorectal cancer and stem cell development.
  - Analysis and integration of RNA-seq, ChIP-seq and ATAC-seq data.
  - Development of a Snakemake pipeline for ATAC-seq.
- 09/2017  
|  
10/2018
- Master's thesis student & Research assistant**  
*Instituto de Biomedicina de Sevilla, Gene expression* 📍 Seville, Spain
- Study of Xrn1 and Ccr4 roles in yeast nucleosome architecture and gene transcription.
  - Analysis of MNase-seq data. Performance and analysis of MNase-qPCR experiments.
- 09/2016  
|  
06/2017
- Internship & Bachelor's thesis student**  
*Microbial. Sistemes i aplicacions analítiques, S.L.* 📍 Girona, Spain
- Microbiological and molecular analyses for pathogen detection and food forensics.
  - Study of butyrate effects on the ileal microbiota of colectomized colorectal cancer patients.
  - qPCR of intestinal biopsies to detect/quantify bacterial genders.
  - Statistical analysis of high-throughput sequencing data to quantify bacteria species.

## EDUCATION

- 2018  
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Present
- MSc in Bioinformatics and Biostatistics**  
*Universitat Oberta de Catalunya* 📍 Online
- 2017  
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2018
- MSc in Molecular Genetics and Biotechnology**  
*Universidad de Sevilla - Grade: 9.33/10* 📍 Seville, Spain
- Master's thesis: *Influence of Xrn1 in nucleosome positioning across Saccharomyces cerevisiae genome and its effects in transcription.* Grade: 9.2/10
- 2012  
|  
2017
- BSc in Biotechnology**  
*Universitat de Girona - Grade: 8.12/10* 📍 Girona, Spain
- Bachelor's thesis: *Butyrate-induced changes in the diversity of intestinal mucosa-associated microbiota in colorectal cancer patients submitted to a lateral ileostomy.* Grade: 9.4/10

## 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](https://doi.org/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, Git, HPC, Conda, Docker

### 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](#)

References available upon request.  
Build with [pagedown](#), code [here](#).  
Last updated on 2021-05-22.