

# ADRIÀ MITJAVILA VENTURA

Bioinformatician at *Institut Josep Carreras* | 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. See more about me on [my website](#).



## EXPERIENCE

- 08/2021  
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Present
- Bioinformatician**  
*Institut Josep Carreras, Vavouri's lab* 📍 Badalona, Spain
- Study of PIWI-interacting RNAs (piRNAs), their biogenesis mechanisms and their conservation across species.
- 07/2019  
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07/2021
- 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.
- 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. Sistemas 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.



## 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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🆔 0000-0002-0337-1929  
📱 [biobit.netlify.app](https://biobit.netlify.app)

## SKILLS

### Bioinformatics:

Microarray, (small) RNA- / ChIP- / ATAC- / MNase-seq

### Informatics:

R/Bioconductor, R Markdown, Shiny, Bash, Snakemake, Python, Git, HPC, Conda, Docker, Singularity

### Experimental:

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

### Languages:

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

## CODE

[chromHMMviewR](#)  
[plotmics](#)  
[MYomics](#) (ongoing)  
[ATAC-seq snakemake](#) (ongoing)  
More on [my GitHub profile](#)

References available upon request.  
Build with [pagedown](#), code [here](#).  
Last updated on 2021-10-06.