

# ADRIÀ MITJAVILA VENTURA

MSc | Bioinformatician at *Institut Josep Carreras*

Biotechnologist with training in Molecular Genetics and Bioinformatics. Interested in omics data analysis to study the mechanisms of gene regulation in mammals. See more about me on [my website](#).



## EXPERIENCE

08/2021  
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Present

### Bioinformatician

*Institut Josep Carreras*

📍 Badalona, Spain

Study of PIWI-interacting RNAs (piRNAs), their biogenesis and variation across species. | Development of a pipeline for processing small RNA-seq data focused to analyze piRNAs.

07/2019  
|  
07/2021

### Bioinformatician

*Istituto Europeo di Oncologia*

📍 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*

📍 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  
|  
2022

### MSc in Bioinformatics and Biostatistics

Universitat Oberta de Catalunya (UOC)

📍 Online

Overall grade: 8.94 | Master's thesis: *Analysis of the variation in piRNA expression across three Mus species* (thesis grade 9.7/10, with honours).

2017  
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2018

### MSc in Molecular Genetics and Biotechnology

Universidad de Sevilla (US)

📍 Seville, Spain

Overall grade: 9.33/10 | Master's thesis: *Influence of Xrn1 in nucleosome positioning across Saccharomyces cerevisiae genome and its effects in transcription* (thesis grade: 9.2/10).

2012  
|  
2017

### BSc in Biotechnology

Universitat de Girona (UdG)

📍 Girona, Spain

Overall grade: 8.12/10 | Bachelor's thesis: *Butyrate-induced changes in the diversity of intestinal mucosa-associated microbiota in colorectal cancer patients submitted to a lateral ileostomy* (thesis grade: 9.4/10)



## PUBLICATIONS

Begley *et al.* Xrn1 influence on gene transcription results from the combination of general effects on elongating RNA pol II and gene-specific chromatin configuration. *RNA Biology* 2020. doi: [10.1080/15476286.2020.1845504](https://doi.org/10.1080/15476286.2020.1845504)

## CONTACT

🏠 Girona (Spain)

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## 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

[ggmitji](#)

[plotmics](#)

[chromHMMviewer](#)

More on [my GitHub profile](#)

## AWARDS

Master's thesis (UOC) *with honours* (2022)

[Elite athlete](#) (2015-2021)

[2016 World Rowing U23 Champion](#)

References available upon request.  
Build with [pagedown](#), code [here](#).  
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