

# 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

- 11/2022  
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Present
- PhD student in Bioinformatics**  
*Institut Josep Carreras & Institut Germans Trias i Pujol* 📍 Badalona, Spain  
Study of the role of transposable elements in the evolution of gene regulation in mammals.
- 08/2021  
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10/2022
- Bioinformatician**  
*Institut Josep Carreras* 📍 Badalona, Spain  
Analysis of small RNA-seq data to study Piwi-interacting RNAs (piRNAs), their biogenesis and the variation of piRNA-producing loci across species.
- 07/2019  
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07/2021
- Bioinformatician**  
*Istituto Europeo di Oncologia* 📍 Milan, Italy  
Analysis and integration of RNA-, ChIP- and ATAC-seq data to study the Wnt/ $\beta$ catenin signaling pathway -and others- in the context of colorectal cancer and stem cell development.
- 09/2017  
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10/2018
- Master's thesis student & Research assistant**  
*Instituto de Biomedicina de Sevilla* 📍 Seville, Spain  
Analysis of MNase-seq and MNase-qPCR data to study the role Xrn1 and Ccr4 in yeast nucleosome architecture and gene transcription.
- 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

- 2022  
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2025
- PhD in Bioinformatics**  
*Universitat Autònoma de Barcelona (UAB)* 📍 Barcelona, Spain
- 2018  
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2022
- MSc in Bioinformatics and Biostatistics**  
*Universitat Oberta de Catalunya (UOC)* 📍 Online  
Overall grade: 8.94/10 | Master's thesis: *Analysis of the variation in piRNA expression [...]* (thesis grade: 9.78/10, 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 [...]* (thesis grade: 9.2/10).
- 2012  
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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 [...]* (thesis grade: 9.4/10)



## PUBLICATIONS

Research  
article

- Xrn1 influence on gene transcription results from [...]**  
Begley *et al.*, *RNA Biology*, 2021

## CONTACT

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🌐 [amtjavilaventura.github.io](https://github.com/amtjavilaventura)  
🔗 [/amtjavilaventura](https://www.linkedin.com/company/amtjavilaventura)  
☎ 0000-0002-0337-1929

## 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 (Bilingual), English (C1 - IELTS 7.5), Italian (Basic)

## CODE

[ggmitji](#)  
[plotmics](#)  
[chromHMMviewR](#)  
More on [my GitHub profile](#)

## AWARDS

**INPhINIT Incoming PhD Fellowship** (La Caixa, 2022-2025)  
**Master's thesis, with honours** (UOC, 2022)  
**SEMM PhD Fellowship** (SEMM, 2019, declined)  
**Elite athlete** (BOE, 2015-2021)  
**World Rowing U23 Champion** (FISA, 2016)