

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/ β 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
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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 across three Mus species* (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 across Saccharomyces cerevisiae genome and its effects in transcription* (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 in colorectal cancer patients submitted to a lateral ileostomy* (thesis grade: 9.4/10)



PUBLICATIONS

- Journal article
- 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

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☎ 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 (Native), 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)