

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/ β 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
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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
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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

2018
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Present

MSc in Bioinformatics and Biostatistics

Universitat Oberta de Catalunya

📍 Online

Master's thesis: *Analysis of the variation in piRNA expression across three Mus species.*

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
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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

🏠 Girona (Spain)

✉ adria.mitjavila94@gmail.com

🌐 amitjavilaventura.github.io

🔗 [/amitjavilaventura](https://amitjavilaventura.netlify.app)

🆔 0000-0002-0337-1929

📱 biobit.netlify.app

SKILLS

Bioinformatics:

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

Informatics:

R/Bioconductor, RMarkdown, 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 2022-01-19.