

# ADRIÀ MITJAVILA VENTURA

Bioinformatician at *Istituto Europeo di Oncologia*

Biotechnologist living around computers. Interested in data analysis to support experimental research as well as in pure computational experiments and in software/pipeline development.

References available upon request.



## EXPERIENCE

- 07/2019  
|  
Present
- Bioinformatician**  
*Istituto Europeo di Oncologia* 📍 Milan, Italy
- Pasini's lab**  
Analysis of omics data analysis (RNA-seq, ChIP-seq, ATAC-seq) | Comparison of different ATAC-seq peak callers. | Development of an ATAC-seq pipeline for Snakemake.
- 07/2018  
|  
10/2018
- Research Assistant**  
*Instituto de Biomedicina de Sevilla* 📍 Seville, Spain
- Gene expression lab**  
Analysis of MNase-seq data from Ccr4-mutant yeast.
- 09/2017  
|  
07/2018
- Master's thesis student**  
*Instituto de Biomedicina de Sevilla* 📍 Seville, Spain
- Gene expression lab**  
Analysis of MNase-seq data from Xrn1-mutant yeast | MNase-qPCR experiments, including MNase DNA digestion, primer desing, qPCRs and analysis.
- Supervisors: Dr. Sebastián Chávez de Diego and Dr. Gabriel Gutierrez Pozo.
  - MSc degree in Molecular Genetics and Biotechnology.
- 07/2017  
|  
09/2017
- Internship student**  
*Institut d'Investigació Biomèdica de Girona* 📍 Girona, Spain
- Unit of Diabetes, Endocrinology and Nutrition**  
Identification of new factors (genetic and bacterial) related to adipose tissue physiology and obesity.
- 01/2017  
|  
06/2017
- Bachelor's thesis student**  
*Microbial. Sistemes i aplicacions analítiques, S.L.* 📍 Girona, Spain
- DNA extraction of intestinal mucosa biopsies | qPCR experiments to detect clusters and families of bacteria | NGS data analysis to quantify bacterial genders in intestinal biopsies.
- Supervisor: Prof. Jesús García-Gil.
  - BSc degree in Biotechnology.
- 09/2016  
|  
06/2017
- Internship student**  
*Microbial. Sistemes i aplicacions analítiques, S.L.* 📍 Girona, Spain
- Microbiological and molecular analyses of food and water samples to search for pathogens and perform food forensics.



## EDUCATION

- 2018  
|  
Present
- MSc in Bioinformatics and Biostatistics**  
*Universitat Oberta de Catalunya* 📍 Online

## CONTACT

🏠 Girona (Spain) - Milan (Italy)  
@ [adria.mitjavila94@gmail.com](mailto:adria.mitjavila94@gmail.com)  
🌐 [amitjavilaventura.github.io](https://amitjavilaventura.github.io)  
🔗 [/amitjavilaventura](https://github.com/amitjavilaventura)  
🆔 0000-0002-0337-1929  
📱 BioBit  
📄 1-page resume

## SKILLS

### Omics data analysis:

Microarray, RNA-seq, ChIP-seq, ATAC-seq, MNase-seq

### Programming/scripting:

R/Bioconductor, Bash, Python

### Other:

Snakemake, Conda, Docker, Git

### Experimental:

(q)PCR, electrophoresis, molecular cloning, Western blot, MNase-digestion, bacterial/yeast culture

### Languages:

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

2017  
|  
2018

## MSc in Molecular Genetics and Biotechnology

Universidad de Sevilla

📍 Seville, Spain

- Specialization on Molecular Biology R&D
- Master's thesis: *Influence of Xrn1 in nucleosome positioning across Saccharomyces cerevisiae genome and its effects in transcription.*

2012  
|  
2017

## BSc in Biotechnology

Universitat de Girona

📍 Girona, Spain

- Specialization in Cellular & Molecular Biotechnology.
- Bachelor's thesis: *Butyrate-induced changes in the diversity of intestinal mucosa-associated microbiota in colorectal cancer patients submitted to a lateral ileostomy.*



## 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).

## DEVELOPMENT

### chromHMMviewR:

Visualize outputs from ChromHMM in R.

### DPomics (ongoing):

Shiny app for omics visualization.

### DName:

Shiny app to convert your name to a DNA sequence.

### ATAC-seq snakemake (ongoing):

Snakemake pipeline for ATAC-seq data.

## ORGANIZATIONS

### ASBTEC:

Board member (2019 - Present)  
Collaborator (2018 - Present)  
Member (2017 - Present)

### SCB:

Member (2018 - Present)

## HONORS & AWARDS

### Elite sportsman:

*Federación Española de Remo*  
2015 - 2021

### World Rowing U23 Champion:

BLM2x  
Rotterdam, Netherlands.  
2016