# ADRIÀ MITJAVILA VENTURA

Bioinformatician at *Istituto Europeo di Oncologia* | 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.

## 🖥 EXPERIENCE

**07/2019 | Present**

### Bioinformatician
*Istituto Europeo di Oncologia*  📍 Milan, Italy

• Analysis and integration of RNA-seq, ChIP-seq and ATAC-seq data.
• Development of an ATAC-seq pipeline for Snakemake.

**09/2017 | 10/2018**

### Master's thesis student & Research assistant
*Instituto de Biomedicina de Sevilla*  📍 Seville, Spain

• Analysis of MNase-seq data.
• Performance and analysis of MNase-qPCR experiments.

**09/2016 | 06/2017**

### Internship & Bachelor's thesis student
*Microbial. Sistemes i aplicacions analítiques, S.L.*  📍 Girona, Spain

• qPCR of intestinal biopsies to detect/quantify bacterial genres.
• Statistical analysis of high-throughput sequencing data to quantify bacteria species.

## 🎓 EDUCATION

**2018 | Present**

### MSc in Bioinformatics and Biostatistics
Universitat Oberta de Catalunya  📍 Online

**2017 | 2018**

### MSc in Molecular Genetics and Biotechnology
Universidad de Sevilla  📍 Seville, Spain

• 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

• 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.

## CONTACT

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## SKILLS

**Omics data analysis:**

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

**Programming/scripting:**

R/Bioconductor
Python
Bash

**Other (informatics):**

Snakemake
Conda
Docker
Git

**Experimental:**

DNA extraction…
Electrophoresis
Western blot
MNase-digestion
Bacterial/yeast culture

**Languages:**

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