

ADRIÀ MITJAVILA VENTURA

Bioinformatician at *Istituto Europeo di Oncologia*.

Former biotechnologist who is living between computers and pursuing a PhD in Computational Biology. My interests are mostly related to Molecular Genetics, Signal Transduction and Epigenetics.

I am said to be a motivated, ambitious man. Furthermore, I can work individually as well as in a team and I believe myself capable of leading a little group of professional people.

On the other hand, I have been an elite rower, combining my academic career with high-level training and competitions and achieving excellent results at both, Spanish and international level.



EDUCATION

2019
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Present

PhD in Computational Biology

Scuola Europea di Medicina Molecolare

📍 Milan, Italy

- Supervisor: Dr. Diego Pasini.

2018
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Present

MSc in Bioinformatics and Biostatistics

Universitat Oberta de Catalunya

📍 Online

2017
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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
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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.*



EXPERIENCE

10/2019
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Present

PhD student in Computational Biology

Istituto Europeo di Oncologia

📍 Milan, Italy

Pasini's lab

Analysis of omics data analysis (RNA-seq, ChIP-seq, ATAC-seq) | Development of an ATACseq pipeline for Snakemake.

- Scuola Europea di Medicina Molecolare & Università degli studi di Milano
- SEMM PhD fellowship

CONTACT

🏠 Girona (Spain) - Milan (Italy)

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🔗 amitjavilaventura.github.io

🌐 [/amitjavilaventura](https://github.com/amitjavilaventura)

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SKILLS

Omics data analysis:

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

Programming/scripting:

R/Shiny
Python

Workflow management

Snakemake

Environment management

Conda
Docker

Code repositories:

GitHub
GitLab

Operating systems:

MS Windows
MAC OS
Ubuntu

Offimatics:

MS Office
OpenOffice

Languages:

Catalan
Spanish
English
Italian

07/2019 10/2019	Bioinformatician <i>Istituto Europeo di Oncologia</i> Pasini's lab Analysis of omics data analysis (RNA-seq, ChIP-seq, ATAC-seq) Comparison of different ATAC-seq peak callers. Development of an ATACseq pipeline for Snakemake.	Milan, Italy
07/2018 10/2018	Research Assistant <i>Instituto de Biomedicina de Sevilla</i> Gene expression lab Analysis of MNase-seq data from Ccr4-mutant yeast.	Seville, Spain
09/2017 07/2018	Master's thesis student <i>Instituto de Biomedicina de Sevilla</i> Gene expression lab. Analysis of MNase-seq data from Xrn1-mutant yeast Performing MNase-qPCR experiments, including MNase DNA digestion, primer desing, qPCRs and analysis. <ul style="list-style-type: none"> Supervisors: Dr. Sebastián Chávez de Diego and Dr. Gabriel Gutierrez Pozo. MSc degree in Molecular Genetics and Biotechnology. 	Seville, Spain
07/2017 09/2017	Research internship student <i>Institut d'Investigació Biomèdica de Girona</i> Unit of Diabetes, Endocrinology and Nutrition Identification of new factors (genetic and bacterial) related to adipose tissue physiology and obesity.	Girona, Spain
01/2017 06/2017	Bachelor's thesis student <i>Microbial. Sistemes i aplicacions analítiques, S.L.</i> 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. <ul style="list-style-type: none"> Supervisor: Prof. Jesús García-Gil. BSc degree in Biotecnology. 	Girona, Spain
09/2016 06/2017	Internship student <i>Microbial. Sistemes i aplicacions analítiques, S.L.</i> Microbiological and molecular analyses of food and water samples to search for pathogens and perform food forensics.	Girona, Spain



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).



ORGANIZATIONS

2018
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Present

SCB

Catalan Society of Biology

The Catalan Society of Biology ([SCB](#)) it is a branch of the Institute of Catalan Studies ([IEC](#)) that searches to bring professionals and students of the life sciences together in order to allow the exchange of ideas and the diffusion of the research to the society.

2017
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Present

ASBTEC

Catalan Biotechnologists Association ([ASBTEC](#))

The Catalan Biotechnologists Association ([ASBTEC](#)) is a non-profit association that works to promote Biotechnology within society and wants to be the link between the academia and the industry. To do so, it is organizing several workshops and symposiums with topics that range from divulgation to academic research or entrepreneurship.

- Board member (2019 - Present) | Supervisor of the communication team and responsible of social networks.
- Active member (2018 - Present) | Responsible of Instagram and Facebook social networks.



HONORS & AWARDS

10/2019
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Present

SEMM PhD Fellowship

Scuola Europea di Medicina Molecolare - European School of Molecular Medicine

📍 Milan, Italy

Fellowship to pursue their PhD program in Systems Medicine (curriculum of Computational Biology)

2015
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2021

Elite Rower

Federación Española de Remo - Spanish Rowing Federation

I have been granted the category of high-level athlete in Spain, first in 2015 for finishing at 6th place at the World Rowing Under-23 Championship and once more in 2016 for becoming World Rowing Under-23 Champion. See my sports curriculum [here](#) and my *WorldRowing* athlete page [here](#).

2016

World Rowing U23 Champion

FISA - WorldRowing

📍 Rotterdam, Netherlands.

1st place at the World Rowing Under-23 Championship in the category of lightweight double scull (*BLM2x*)