

# 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  
|  
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  
|  
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](https://amitjavilaventura.github.io)

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

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

## SKILLS

### Omics data analysis:

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

### Programming/scripting:

R/Shiny  
Python

### Workflow management

Snakemake

### Environment management

Conda

### Code repositories:

GitHub  
GitLab

### Operating systems:

MS Windows  
MAC OS  
Ubuntu

### Offimatics:

MS Office  
OpenOffice

### Languages:

Catalan  
Spanish  
English  
Italian

07/2019   10/2019	<b>Bioinformatician</b> <i>Istituto Europeo di Oncologia</i> <b>Pasini's lab</b> 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	<b>Research Assistant</b> <i>Instituto de Biomedicina de Sevilla</i> <b>Gene expression lab</b> Analysis of MNase-seq data from Ccr4-mutant yeast.	📍 Seville, Spain
09/2017   07/2018	<b>Master's thesis student</b> <i>Instituto de Biomedicina de Sevilla</i> <b>Gene expression lab.</b> 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"> <li>• Supervisors: Dr. Sebastián Chávez de Diego and Dr. Gabriel Gutierrez Pozo.</li> <li>• MSc degree in Molecular Genetics and Biotechnology.</li> </ul>	📍 Seville, Spain
07/2017   09/2017	<b>Research internship student</b> <i>Institut d'Investigació Biomèdica de Girona</i> <b>Unit of Diabetes, Endocrinology and Nutrition</b> Identification of new factors (genetic and bacterial) related to adipose tissue physiology and obesity.	📍 Girona, Spain
01/2017   06/2017	<b>Bachelor's thesis student</b> <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"> <li>• Supervisor: Prof. Jesús García-Gil.</li> <li>• BSc degree in Biotecnology.</li> </ul>	📍 Girona, Spain
09/2016   06/2017	<b>Internship student</b> <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  
|  
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  
|  
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  
|  
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.

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