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.

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

2018 | Present **MSc in Bioinformatics and Biostatistics**

Universitat Oberta de Catalunya

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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 <u>Saccharomyces cerevisiae genome and its effects in transcription.*</u>

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 mucosaassociated microbiota in colorectal cancer patients submitted to a lateral ileostomy.



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-seg data from Ccr4-mutant yeast.



CONTACT

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SKILLS

Omics data analysis:

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

Programming/scripting:

R/Shiny Python

Git:

GitHub GitLab

Other

Snakemake Conda Docker

Languages:

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

Research 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 Biotecnology.

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.



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.



ORGANIZATIONS



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 difussion of the research to the society.



ASBTEC

Catalan Biotechnologists Association (ASBTEC)

The Catalan Biotechnologists Associacition (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 symposioums 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.



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.

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