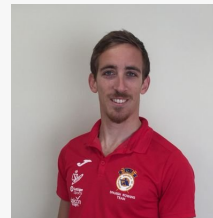# ADRIÀ MITJAVILA VENTURA

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 — Present

PhD in Computational Biology
Scuola Europea di Medicina Molecolare 📍 Milan, Italy

• Supervisor: Dr. Diego Pasini.

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

• 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
Analisis 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

✉ adria.mitjavila94@gmail.com

🔗 amitjavilaventura.github.io

 GitHub

 GitLab

SKILLS

Omics data analysis:

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

Programming:

R
Rmarkdown
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

Last updated on 2020-11-03

07/2019
|
10/2019

Bioinformatician

Istituto Europeo di Oncologia

📍 Milan, Italy

Pasini's lab
Analisis of omics data analysis (RNA-seq, ChIP-seq, ATAC-seq) | Comparison of different ATAC-seq peak callers. | Development of an ATACseq pipeline for Snakemake.

07/2018
|
10/2018

Research Assistant

Instituto de Biomedicina de Sevilla

📍 Seville, Spain

Gene expression lab
Analisis 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.
Analisis of MNase-seq data from Xrn1-mutant yeast | Performing 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

2018
|
Present

SCB
Catalan Society of Biology

📍 Catalunya

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.

2017
|
Present

ASBTEC
Catalan Biotechnologists Association (*ASBTEC*)

📍 Catalunya

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.

🎖 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

📍 Spain

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*)