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.

References available upon request.

🖥 EXPERIENCE

07/2019
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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
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10/2018

Research Assistant

Instituto de Biomedicina de Sevilla 📍 Seville, Spain

Gene expression lab
Analysis of MNase-seq data from Ccr4-mutant yeast.

09/2017
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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
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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
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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.

CONTACT

🏠 Girona (Spain) - Milan (Italy)
✉ adria.mitjavila94@gmail.com
🔗 amitjavilaventura.github.io
🐙 /amitjavilaventura
/amitjavilaventura

SKILLS

Omics data analysis:

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

Programming/scripting:

R/Bioconductor
Bash
Python

Other:

Snakemake
Conda
Docker
Git

Languages:

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

Build with pagedown, code here
Last updated on 2021-04-15

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.

🎓 EDUCATION

2018
|
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.*

📖 PUBLICATIONS

Full list of publications in my ORCID profile

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.

DEVELOPMENT

chromHMMviewR:

Visualize outputs from ChromHMM in R.

DPomics (*ongoing*):

Omics visualization.

DNAme:

Convert your name to a DNA sequence.

ATAC−seq snakemake (*ongoing*):

Pipeline for ATAC-seq data.

ADDITIONAL EDUCATION

IELTS Academic Exam:

Overall grade: 7.5

DataCamp courses:

Introduction to Git
Introduction to Bash scripting
Introduction to Python
Intermediate Python
Data manipulation with `dplyr`
Data visualization with `ggplot2` (I)
Introduction to the Tidyverse
Writing efficient R code
Machine learning for everyone

ORGANIZATIONS

ASBTEC:

Board member (2019 - Present)
Collaborator (2018 - Present)
Member (2017 - Present)

SCB:

Member (2018 - Present)

HONORS & AWARDS

Elite sportsman:

Federación Española de Remo
2015 - 2021

World Rowing U23 Champion:

BLM2x
Rotterdam, Netherlands.
2016