



# Valentina Marchionni

## WORK EXPERIENCE

**SAPIENZA UNIVERSITY OF ROME** – ROME, ITALY

**INTERN** – 04/2024 – 03/2025

- Development of a computational pipeline to analyse circular RNAs in Autism Spectrum Disorder (ASD), focusing on the identification, quantification and characterisation of these RNA molecules starting from raw bulk RNA-seq data applying a multi-tool combinatorial approach.
- Optimized the bioinformatics analysis workflow, identifying differentially expressed circular RNAs and relevant biological pathways.
- Utilized tools such as cutadapt, Trim Galore, SortMeRNA for data cleaning, circi2, DCC and Circexplorer3 for circular RNAs detection and quantification.

**INTERNATIONAL SOCIETY FOR THE HISTORY OF THE NEUROSCIENCES (ISHN)** – ROME, ITALY

**CONTRIBUTION AS PART OF THE LOCAL ORGANIZATION COMMITTEE OF THE ANNUAL MEETING OF THE ISHN** – 03/2022 – 06/2022

- Assisted in the coordination of the annual meeting, enhancing organizational skills and teamwork.

**ROMA CAPITALE** – ROME, ITALY

**POLL WATCHER** – 09/2020 – CURRENT

- Responsible of observing the conduct of the election and voters at the polling station and counting the election ballots.

**UNIVERSITY OF TURIN – PATHOLOGICAL ANATOMY DEPARTMENT** – TURIN, ITALY

**INTERN AT MOLINETTE HOSPITAL (TO)** – 03/2022 – 06/2022

- Involved in the main experimental activities held in the pathological Anatomy laboratory such as Immunohistochemistry (IHC) and basic interpretation of experimental results.

## EDUCATION AND TRAINING

10/2022 – 03/2025 Rome, Italy

**BIOINFORMATICS (LM-6) MASTER'S DEGREE** University of Rome Tor Vergata

**Field of study** Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics |

**Final grade** 110/110 Cum Laude | **Level in EQF** EQF level 7 |

**Thesis** Functional role of circular RNAs in the molecular mechanisms underlying autism spectrum disorder

10/2018 – 10/2021 Rome, Italy

**BIOINFORMATICS (L-2) BACHELOR'S DEGREE** Sapienza University of Rome

**Field of study** Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics |

**Final grade** 110/110 Cum Laude | **Level in EQF** EQF level 6 |

**Thesis** A Bioinformatics analysis to reveal oncogenic gene signatures for Head and Neck Squamous cell carcinoma

## LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**



Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## SKILLS

Bioinformatic database | Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation | NGS data analysis tools | Python (computer programming) | Linux (Terminal Commands, Bash/Shell) | Basic Computer Networking | Meeting deadlines | Decision-making | Active listening | NCBI tools (Genbank, BLAST) | Microsoft Powerpoint | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | PubMed, NCBI, Blast, ClustalW | R | teamwork principles | demonstrate willingness to learn | biostatistics | biology | molecular biology | HPC basics | DNA & Protein Sequence Analysis, BLAST, FASTA, Protein Visualizaiton Tools, Ras Mol & Chimera

## DRIVING LICENCE

Driving Licence: B | 06/12/2017 – 02/08/2028

## PERSONAL DATA

"Autorizzo la pubblicazione del mio curriculum vitae e il trattamento dei dati personali in esso contenuti in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 GDPR 679/16";