

PERSONAL INFORMATION Ludovica Perticone**JOB APPLIED FOR** Bioinformatician**WORK EXPERIENCE**

October 2024 – July 2025

Bioinformatics Intern

Human Technopole, Milan

Development of a comprehensive strategy to process data from high-throughput single-cell long- and short-reads sequencing of colon cancer sample from both organoids and tissue. Integration of multiple omics techniques (including whole-genome sequencing) enables precise estimation of tumor heterogeneity at the level of specific subclones.

EDUCATION AND TRAINING

Oct 2023–Jul 2025

Master's Degree in Bioinformatics

Università di Roma "Tor Vergata", Italy

Grade: 110L/110

Thesis: "Dissecting colorectal cancer through single-cell sequencing: a comparative study of long- and short-reads technologies"- Human Technopole, Milan - Internal supervisor: Prof. Andrea Guarracino, External supervisor: Andrea Sottoriva

Oct 2020–Oct 2023

Bachelor's Degree in Biology

Università di Roma "La Sapienza", Italy

Grade: 110L/110

Genetics & Molecular Biology Curriculum

Thesis: "Validazione di un metodo computazionale per l'analisi del readthrough trascrizionale utilizzando dati di sequenziamento di terza generazione", Supervisor: Prof. Alessio Colantoni. Validation of a computational pipeline to analyze transcriptional readthrough using long-read sequencing data (MinION Nanopore technology).

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Communication skills

- Intercultural communication skills developed through collaboration with teammates from diverse cultural and professional backgrounds
- Experience in preparing and delivering monthly reports and presentations to the team head and supervisor, enhancing public speaking and presentation skills

Organisational / managerial skills

- Strong organisational and time-management skills developed during an internship at Human Technopole, involving weekly tasks and regular result presentations.
- Skilled in setting priorities, managing deadlines, and optimizing workflows
- Ability to work effectively both independently and as part of a team

Computer skills

- Windows | Ubuntu | Unix | macOS
- Office | IWork | $\text{\LaTeX}$
- Python | R | SQL | PHP
- fastQC | Minimap2 | Samtools | IsoQuant
- Scanpy | CellTypist | InferCNV | Numbat | cellSNP-lite | Clair3
- DeepTools | Mosdepth
- Docker | Singularity
- Git

Certifications – R for Data Analysis, Statistics and Data Science - [Udemy](#)

Driving licence B

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La sottoscritta dichiara di essere consapevole che il presente *curriculum vitae* sarà pubblicato sul sito istituzionale dell'Ateneo, nella Sezione "Amministrazione trasparente", nelle modalità e per la durata prevista dal d.lgs. n. 33/2013, art. 15.

Data
16/09/2025

F.to
Ludovica Perticone