Virginia Anna Gazziero

Profile and general information

Languages   Italian – mother tongue
English – B2 (certified by University of Trieste)

Digital Skills   Microsoft Office Suite (Word, Excel, Power Point, Outlook) – advanced
Latex – base

R for analysis of biological data – advanced
Python – intermediate
Bash – advanced
Nextflow – intermediate
Singularity – intermediate
ImageJ for image analysis – base
Familiar with High Permormance Computing facilities and the Slurm workload manager
Git version control – advanced

Education

December 2023 – current

PhD in Applied Data Science and Artificial Intelligence, *University of Trieste and Toscana Life Science Foundation*

Supervisor: Prof. Giulio Caravagna (Department of Mathematics, Informatics and Geosciences, *University of Trieste*).

Co-supervisor: Dr. Anna Kabanova (*Toscana Life Sciences, Siena*)

December 2020 – March 2023

Master of Science in Functional Genomics (LM-6), *University of Trieste*

Graduated with 110/110.

Thesis: *Identification and investigation of novel molecular partners of High Mobility Group A1 (HMGA1) in Breast Cancer subtypes.*

Supervisor: Prof. Guidalberto Manfioletti (Department of Life Sciences, *University of Trieste*)
Co-supervisor: Dr. Silvano Piazza (*International Centre for Genetic Engeneering and Biotechnology – ICGEB, Trieste*)

Work experiences

June – November 2023

Research fellowship at the Laboratory of Data Engineering, *Research Institute for Technological Innovation, Area Science Park*

Publications

December 2022   Petrosino, S., Pacor, S., Pegoraro, S., ***Gazziero, V. A.***, Canarutto, G., Piazza, S., Manfioletti, G., & Sgarra, R. (2023). HMGA1 Regulates the Expression of Replication-Dependent Histone Genes and Cell-Cycle in Breast Cancer Cells. *International Journal of Molecular Sciences*, *24*(1). **https://doi.org/10.3390/ijms24010594**

Involved in the bioinformatic analysis of biological data, aimed to investigate the relationship between the expression of HMGA1 and the replication-dependent histones in different breast cancer subtypes. The obtained results represented an important benchmark of the research, and the defined pipeline was further developed in the master thesis project.

Participations and certificates

September 2025	**Summer School in Computational Biology**, Univerisity of Coimbra, Portugal.
April 2025	**Workshop "*Data Science for Health and Biology*"**, Politecnico of Milan and Human Technopole.
June 2023	**Seminar "*FAIR research data management*"**, *Azienda per la Promozione della Ricerca Europea (APRE) and ICGEB.*
2021 (26 hours)	**Academic course "*Experimental optimization, analysis and visualization of chemical, physical and biological data*"**, *University of Trieste* (taught in Italian)
	Program promoted in cooperation between Friuli-Venezia Giulia government and University of Trieste. The lectures focused on an overview of statistics models used in different scientific fields and their application, with practical experiences using R and some of its different packages.
October 2020	**Open badge "Student representative"**, *University of Insubria*

Teaching activities

October – December 2024	**Tutor** for the course of Mathematics and Statistics (MAT/03), B.Sc. "Biological Sciences and Technologies" *University of Trieste*
April – June 2023	**Academic Teaching Assistant** for the course of Genetics Biotechnologies (BIO/18)*,* B.Sc. "Biological Sciences and Technologies" *University of Trieste*
October – December 2022	**Laboratory tutor** for the course of Gene Expression (BIO/11), M.Sc. "Functional Genomics", *University of Trieste*
March – May 2022	**Laboratory tutor** of the course "Methodology for the study of the proteome" (BIO/10), M.Sc. "Functional Genomics", *University of Trieste*
September – December 2021	**Laboratory tutor** of the course "Laboratory of molecular biology" (BIO/11), B.Sc. "Biological Sciences and Technologies" *University of Trieste*
October – December 2020	**Student tutor** for teaching and studying support to an ADHD student, *University of Insubria*

Institutional responsibilities

May 2024 – current	**PhD council in Applied Data Science and Artificial Intelligence**, student's representative, *University of Trieste*
March 2022 – February 2023	**Academic tutor** of the M.Sc. program in Functional Genomics, *University of Trieste*
October 2021 – March 2023	**Students-Teachers Joint Committee,** student's representative, Department of Life Sciences, *University of Trieste*
April 2021 – March 2023	**Department of Life Sciences Council**, student's representative, *University of Trieste*
October – December 2021	**Group for the *Rapporto di riesame cicliclo* of the M.Sc. in Functional Genomics**, *University of Trieste*
March 2019 – December 2020	**Students-Teachers Joint Committee,** student's representative, Department of Biotechnologies and Life Sciences, *University of Insubria*

Outreach activities

January 2025	**Teacher** of a PNRR funded course focused on machine learning for life sciences, aimed at high school students, *University of Trieste*
September 2024	**Trieste Next Volunteer**, *University of Trieste*
September 2023	**Trieste Next Volunteer**, *Area Science Park*
September 2022	**Trieste Next Volunteer**, *ICGEB*
September 2021	**Trieste Next Volunteer**, *University of Trieste*

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