

PERSONAL INFORMATION	Silvia Gioiosa
BRIEF PRESENTATION	I am a bioinformatician and data analyst for biological projects, cur- rently working in the Data Value Group in CINECA focusing on EU and PNRR projects which focus on NGS and Life Science. I am the Local Technical coordinator of ELIXIR-Ita Node for CINECA, a key infrastructural partner in the Elixir node, focusing on the efficient implementation and distribution of HPC bioinformatics resources for the Biological Scientific Community. Furthermore, I am involved in the delivery of training courses focused on High Performance Computing applied to Bionformatics. My main research interests cover different aspects of High Through- put Sequencing technology data analysis and computational biology, mainly applied to the development of data analysis pipelines optimized for High Performance Computing (HPC), such as genome-wide analy- sis covering genomic variants, gene expression data, epigenetics and non-coding RNAs.
WORKING EXPERIENCE	
November 5th, 2018 – Present	CINECA - Interunivesity Consortium SCAI (SuperComputing Applications and Innovations) Department - Data Value group CINECA sede di Roma - Via Dei Tizii, 6, Rome
June 1st, 2016 – October 31st, 2018	<ul> <li>Post-doctoral Fellowship</li> <li>(1) National Council of Research (CNR) in collaboration with (2) CINECA.</li> <li>(1) Institute of biomembrane and bioenergetics, Via Giovanni Amendola 165/A - 70126, Bari, Italy. (2) Via Dei Tizii, 6, Rome</li> <li>"Efficient implementation and distribution of High Performance Computing bioinformatics resources for Elixir scientific community; Development of automated Bioinformatics Pipelines; RNA-Seq, Exome-seq and Whole Genome data analysis"</li> </ul>
April 1st, 2014 – March 31st, 2016	Post-doctoral Fellowship Laboratorio Prof. Giuseppe Macino, Università degli Studi di Roma "La Sapienza" - P.zza Aldo Moro, 5 - Rome Dip. L.240/2010 Biotecnologie cellulari ed ematologia.
EDUCATION	
2021 – 2022	Master in "qOmics - Quantitative Methods for Omics Data" - Thesis Title: "ANITA - va- lutazione della composizione del microbiotA iNtestinale in pazienti affetti da Tiroidite di hAshimoto" Università Bicocca, Milano

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2011 – 2014	PhD in "Human Biology and Genetics" - Thesis Title: "RNAi machinery cooperates with SWI/SNF complexes in nucleosome positioning at Transcriptional Start Sites." Laboratorio Prof. Giuseppe Macino, Università degli Studi di Roma "La Sapienza" - Dip. L.240/2010 Biotecnologie cellulari ed ematologia.
January 27th, 2010	Master's Degree in Genomics and Biotechnology Università degli Studi di Roma "La Sapienza" - P.zza Aldo Moro, 5 - Rome. Final Mark: 110/110 e lode (magna cum laude)
October 25th, 2006	Bachelor's Degree in Biotechnology Università degli Studi della Basilicata, Potenza (PZ), Italy Final Mark: 110/110 e lode (magna cum laude)
DIGITAL SKILLS	
Bioinformatics skills	NGS data analysis; R statistical environment; Data integration and visualization; CRAN and Bioconductor packages; Database; Data mining; Development of automated, scalable and optimized pipelines;
Computer skills	Workflow Management Systems (Snakemake); Python programming language; High Performance Computing; Cloud computing; Jupyter Notebooks; Github; Command line and UNIX shell scripting; Vi text editor; LaTeX; Full Office package.
Operative Systems	Linux (Ubuntu), Microsoft Windows.
TEACHING EXPERIENCES	
From December 2017 to 2022	Course leader and teacher at "High Performance Bioinformatics", EU PRACE Course in English, CINECA, Rome, Italy.
Since February,2022	Teacher at "Corso Alta Formazione in Bioinformatica", Università La Sapienza, Roma, Italy.
2018, 16-17 Jan	Teacher at the course "Linux shell scripting for high-throughput biological data pro- cessing on supercomputers", Elixir IIB Training activity in collaboration with CINECA, Rome, Italy.
2016 March 31st	Speaker at the training course "Biotecnologie, Sicurezza e Cross-medialità", Rome, organized by INAIL.
ADDITIONAL INFORMATION	
Publications	H-index:10; no. of citations: 329; no. of publications: 21. For a full detailed list of scientific publications, please refer to Scopus ID: 56530825900.
	or to ORCID profile: 0000-0003-1302-8320.
Place and date	Rome, 10/05/2023

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