

Flavia Villani
Curriculum Vitae

Personal Data

Place and Date of Birth: Salerno | 14 November 1995
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Page GitHub: <https://github.com/Flavia95>

Education

2018-2020 **Master's degree in Medical Biotechnology (LM-9)** University of Naples Federico II (NA)
"Population genomics analyses on pangenome graphs"
2015-2018 **Bachelor in Biological Sciences (L-13)** University of Salerno (SA)
"L'enzima glucocinasi e la cura del diabete di tipo II"

Experience

Training activity

Apr 2020 **COVID-19 Biohackathon / Pangenome Assembly** Course
Virtually-USA, Japan, Germany
Nov 2019 **Analysis of scRNA-seq using R** Corso
NETTABB-University of Salerno, Italy
July 2019 **Linux Shell, Git and Python** Course
Software Carpentry Workshop and Elixir-ITA / National Research Council, Napoli, Italy
Dec 2017 **EndNote Web, citation and bibliography program** Course
University of Salerno, Italy

Research activity

2019-2020 **Master's degree in Medical Biotechnology** at National Research Council
Institute of Genetics and Biophysics Adriano Buzzati-Traverso (NA)
"Population genomics analyses on pangenome graphs"

- Study and application of programming languages (python, bash, awk, R) in a computational biology laboratory and use of high-performance machines with associated queuing systems.
- I developed a library using programming languages (url <https://github.com/Flavia95/VGpop>) for the analysis of population genetics on pangenomic data.

2017 **Training for Bachelor in Biological Science** presso Laboratorio Analisi Cliniche
Biolabor-SRL (SA)

- Knowledge of laboratory equipment and analytical methods. Use of clinical medicine machinery based on the Lambert-Beer law to determine clinical parameters.
- Determination of blood count, chemical-physical and parasitological examinations of faeces, glycated hemoglobin, ESR, antibiogram, urinalysis, microscopic observation of urinary sediments, tests for the determination of blood group, HIV tests, HPV, hormonal tests and observation of serum protein .

Congress Seminar	Apr 2020	Graphical pangenomics in the time of COVID19 Virtually, Helsinki	Seminar
	Feb 2020	Modeling neurogenesis with human-derived cerebral organoids Seminar National Research Council, Napoli, Italy	
	Oct 2019	Ginecologia e Donna Un viaggio di tutta una vita SIGO-Napoli, Italy	Congress
	Nov 2019	NETTAB/BBCC2019 University of Salerno, Italy	Congress
	Apr 2016	OGM: fatti, misfatti e prospettive University of Salerno, Italy	Seminar
Publications	Jordan M Eizenga, Adam M Novak, Emily Kobayashi, <i>Flavia Villani</i> , Cecilia Cisar, Simon Heumos, Glenn Hickey, Vincenza Colonna, Benedict Paten, Erik Garrison (16 July 2020). Efficient dynamic variation graphs. Bioinformatics.		
Certificates	28 Mar 2015	Primo soccorso B.L.S.D (Basic Life Support with defibrillation) e disostruzione delle vie aeree Salerno, Italy	Certificate BLSD
	21 Apr 2018	ESB Level 1 Certificate in ESOL International All Modes (B2 CEFR) English language certification Candidate Number: IT-0042278	
Languages	English - (B2)		
Computer Skills	<i>Programming:</i> Python, R, Bash, LaTeX <i>Computer Software:</i> Linux, Windows.		
Other information	<ul style="list-style-type: none"> Quote in the newspaper "Le Monde": (https://www.lemonde.fr/blog/binaire/2020/05/06/sars-cov-2-et-covid-19-on-va-jouer-sur-les-mots/) 		