Marcello Barylli



Description Upcoming Publications			
2024	Multi-Layer and Single Cell Network Models in Cancer. Barylli, Marcello; Saha, J.; Sheraton, V. M; and Hoekstra, A. G.		
2024-25	Multi-Omic Network Inference and Knockout Analysis (MONIKA). Barylli, Marcello; Saha, J.; Sheraton, V. M; and Hoekstra, A. G.		
Education	1		
2021 - 2024	MSc, Computational Science, GPA: 8.3/10	University of Amsterdam	
	 Thesis: Multi-Layer Network Models in Colorectal Cancer Sure 9/10 Key Subjects: Theory of Complex Systems Complex Systems Simulation Machine Learning Agent-Based Modeling 	ıbtype Analysis. Grade:	
2017 - 2021	BSc, Molecular Biology, GPA: A	University of Vienna	
	 Thesis: VirACuDa - Virus Automated Curation of Datasets. Grad Development of a Python script for genomic database filtering. Key Subjects: Systems Biology, Bioinformatics Statistics and Mathematics Structural Biology and Biophysics 	de: A.	

Developing an integrated pipeline for network-based cancer analysis	msterdam University Medical Center	
Developing an integrated pipeline for network-based cancer analysis		
dioinformatician C	UBE: Computational Systems Biology	
 Installation and troubleshooting of bioinformatics software on the Life Science Compute Cluster (LiSC), a Tier-2 HPC system with >2000 CPU cores and >1PB network storage. Metagenomic analysis of environmental (fresh water) samples for the MetaBac research platform, utilising LiSC. 		
 Implementation of a SQL database for the storage and access of bacterial genomes and their associated phages. Testing of an ADI for accessing viral genomic information. Prototyping pow features, such 		
as annotation from raw sequences.		
1icrobiology Intern	Esse, South Africa	
Bacterial cultivation. Growth inhibition experiments		
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▶ Isolation of organic compounds.

01/2016- **Paramedic** Austrian Armed Forces 7/2016

- **▶** Staffing ambulances.
- **▶** Response to emergency calls.
- ▶ Care for patients during transport to and from hospitals.