Jacopo PASQUALINI

PERSONAL DATA

PLACE AND DATE OF BIRTH:	Legnago (VR), Italy | Sept. 6th 1995
ADDRESS:	Padua (PD), Italy
EMAIL:	Institutional jacopo.pasqualini@phd.unipd.it
	Personal jacopo.pasqualini95@gmail.com

PERSONAL PAGES

Github:	https://github.com/jacopopasqualini
Linkedin:	https://www.linkedin.com/in/jacopo-pasqualini-467066147/

ACADEMIC ACTIVITIES

OCT 2021 - CURRENT	PhD, Physics, **University of Padua**
	"Machine Learning and Statistical Physics for Viruses and Bacteria"
	SUPERVISOR: SAMIR SUWEIS, LIPH LAB
May 2021- Aug 2021	**IFOM Institute Milan (IT), Pre-PhD Internship**
	Project: "Quantitative characterization of metagenomic functional profiles".
	SUPERVISOR: MARCO COSENTINO LAGOMARSINO.
SEP 2020 - DEC 2020	**University of Turin, Bachelor degree tutor**:
	Informatics for physics. Supervisor: EZIO MAINA
	Introduction to C programming. Supervisor: Andras Horvath

INVITED PRESENTATIONS AT CONFERENCES

FEB 2023	Invited talk, (*HFSP* project: kickoff meeting) "How do ecological network dynamics mediate the response of organisms to novel environments?"
	Talk Title: "Emergent Patterns in Healthy and Diseases Gut Microbiomes"
MAR 2021	Practical Session Instructor
	Master in Life Science, **École Normale Supérieure** Paris (FR),
	Qlife Quantitative Biology Winter School : Quantitative Ecological Genomics in the Tara Ocean
MAR 2021	Practical Session Instructor, **University of Udine** (IT),
	Systems Biology PhD Winter School
FEB 2020	Invited as Machine Learning Journal Club speaker at
	"Machine Learning for Chemistry" workshop, **University of Turin** (IT)

International Schools and Conferences

Feb-Mar 2022	EMBO Workshop: The Immune System of Bacteria (SISB2023), **Weizmann Institute of Science**, Rehovot (IL)
Feb-Mar 2021	Spring College on the Physics of Complex Systems|(smr 3556), **Abdus Salam ICTP**, Trieste (IT)
Nov 2021	Multiscale Integration in Biological Systems, 4th Course **Institut Curie**, Paris (FR)
Mar 2022	PSL Qlife Winter School: Quantitative Viral Dynamics Across Scales **Ecole Noramle Superieure**, Paris (FR)

Education

Sep 2020 - Apr 2021	**University of Turin, Master thesis at LiPh lab, University of Padua** "Ecology of human gut microbiome: a statistical physics perspective". Supervisors: Samir Suweis, Amos Maritan, Piero Fariselli
2018 - 2021	Master of Physics of Complex systems **University of Turin**, Turin, IT. Grade: 110L/110
Jun 2018 - Sep 2018	**University of Pauda, Bachelor Thesis**: "Cumulants calculation in non-equilibrium statistical mechanics" Supervisor: Marco Baiesi
2014 - 2018	Bachelor's Degree in Physics **University of Padua**, Padova, IT. Grade: 84/110

Other Activities

Jun 2021 - Gen 2022	**University of Toronto UofT**, Project-X: Lead Mentor, University of Turin Team. Five-month-long machine learning research competition. Project: Unsupervised Peptide Clustering for Neoantigen Discovery.
2019 -2022	Founder Member of Machine Learning Journal Club (UniTo, Turin, IT) https://medium.com/mljcunito

Programming Skills

Good Knowledge:	C++, Python, BASH, Bionformatics Tools
Intermediate Knowledge:	Linux systems (Ubuntu), R, LaTeX, Mathematica (Wolfram)
Tools:	Git, SnakeMake, SSH

Work Experience

Summer 2019 - Now	Private Lessons in Programming, Mathematics, Physics
Winter/Spring 2016	Swim coach, Legnago Nuoto, Legnago(VR)

Languages

Italian:	Mothertongue
English:	Fluent