MATTIA CORIGLIANO

PhD Student
IFOM, Milan, Italy

PERSONAL INFORMATION

Date of Birth: May 20 1996
Nationality: Italian
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CURRICULUM VITAE

EDUCATION

PhD Student (December 2021 - *present*)
IFOM, Milan, Italy

Visiting Student (October 2021 - February 2022)
Cavendish Laboratory, University of Cambridge, UK

Temporary Fellow (September *2021 - December 2021*)
IFOM, Milan, Italy

Master's degree in Physics (October 2019 - July 2021)
final grade: 110/110 cum laude
University of Milan, Milan, Italy

Thesis title: "Resource explicit models of species coexistence in experimental microbial communities"
Supervisors: Prof. Grilli (ICTP, Trieste), Prof. Cosentino Lagomarsino (IFOM, Milan & University of Milan)

Bachelor's degree in Physics (October 2015 - April 2019)
final grade: 110/110 cum laude
University of Milan, Milan, Italy

Thesis title: "A Statistical Physics Approach to Drug Resistance and Drug Tolerance in Cancer"
The thesis work was part of an interdisciplinary collaboration between Prof. Cosentino Lagomarsino's Statistical Physics group (IFOM, Milan) and Prof. Bardelli's Molecular Oncology Lab (IRCCS Candiolo)

Scientific High School (*October 2010 - July 2015*)
Liceo Scientifico "Ettore Majorana", Desio (MB), Italy

"In Action with Math" (*October 2013-February 2014*)
Semester Course on Statistics and Population Dynamics
Politecnico di Milano, Milan, Italy

SKILLS

Interdisciplinary teamwork
Programming Languages and Softwares
Python, C++, Office Suite, LaTex, Matlab, Mathematica, R
Languages
English: IELTS Academic - Band 7.5

RESEARCH

M. Russo, G. Crisafulli, A. Sogari, N. M. Reilly, S. Arena, S. Lamba, A. Bartolini, V. Amodio, A; Magrì, L. Novara, I. Sarotto, Z. D. Nagel, C. G. Piett, A. Amatu, A. Sartore-Bianchi, S. Siena, A. Bertotti, L. Trusolino, M. Corigliano, M. Gherardi, M. Cosentino Lagomarsino, F. Di Nicolantonio, A. Bardelli.
Adaptive mutability of colorectal cancers in response to targeted therapies.
Science 366 6472, 1473-1480 2019

M. Russo, S. Pompei, A. Sogari , M. Corigliano , G. Crisafulli, A. Puliafito, S. Lamba, J. Erriquez, A. Bertotti, M. Gherardi, F. Di Nicolantonio, A. Bardelli, and M. Cosentino Lagomarsino
A modified fluctuation-test framework characterizes population dynamics and mutation rate of colorectal cancer persister cells
Accepted in Nature Genetics

TEACHING

Speaker (Dec 2020 - May 2021)
Liceo Scientifico e Classico "Ettore Majorana" Desio (MB), Italy
- Advanced seminars on modern applications of Statistical Physics and Machine Learning. Covered topics include MAXENT models, Stochastic Modelling of Cancer, Quantum Information and Machine Learning.

Teacher (Nov 2019 - May 2021)
Liceo Scientifico e Classico "Ettore Majorana" Desio (MB), Italy
- Physics Course for advanced high school students.

AWARDS

Borsa di studio "Ermenegildo Zegna Founder's Scholarship" a.a. 2020/2021
Highly selective scholarship funding overseas research programs in prestigious universities worldwide

Borsa di studio di Ateneo a.a. 2020/2021
University scholarship for the best 5% Master students