

Matteo Neri

PhD candidate and Data Scientist



education

2017-Present

PhD Candidate in Network Science

Central European University, Budapest, HU

PhD candidate in Network Science.

2015-2017

M.Sc. - Physics of Complex Systems

Paris Saclay University, Paris, FR

International master course in Physics of Complex Systems.

The courses are provided by a collaboration among SISSA, ICTP, Politecnico di Torino and a consortium of universities from Paris (Paris Sud University, Pierre and Marie Curie University and Paris Diderot University). Strong knowledge in statistical mechanics (and its application in different fields), inference, algorithms, complex networks, disordered systems, game theory, inference and learning.

2011-2015

B.Sc magna cum laude - Physics

University of Bologna, Bologna, IT

Majored in Physics, dissertation title: "Studi di Data Popularity nell'analisi distribuita su Grid dell'esperimento CMS a LHC"

2006-2011

High School Scientific Diploma

Liceo Torricelli, Faenza (Italy)

Specialization in mathematics and physics

experiences

April 2018 -
Present

Data Science Consultant

@ Finantial Networks Analytics, London, UK

Main solution area: Financial Crime & Conduct Risk.

FNA is a fast-growing, deep technology company and a leader in Regulatory and Supervisory Technology. FNA's mission is to make the financial system safer and more efficient. FNA's SaaS Platform allows financial institutions to map and monitor complex financial networks and to simulate operational and financial risks. FNA's clients include the world's largest central banks, financial market infrastructures, and leading financial institutions.

Winter Term
2019

Teaching Assistant - Statistical Methods

Network and Data Science Dep. @ CEU,
Budapest, HU

Fall Term
2018

Teaching Assistant - Scientific Python

Math Department @ CEU,
Budapest, HU

March -
June 2017

Research Internship

CMLA @ ENS Saclay, Paris, FR

The purpose of the work was to analyze time-varying networks where Dynamic Resource Allocation Strategy has been adopted in order to treat the epidemic process in a high-resolution context. Considering evolving networks during epidemic control is an important step through real networks applications.

contact

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languages

italian: mother tongue
english: language currently used
spanish: intermediate level

July 2014 -
March 2015

Research Internship @ National Institute of Nuclear Physics (INFN), Bologna, IT
I worked inside the CMS Collaboration (CMS is one of the four general purpose experiments at LHC at CERN) at one tool that intends to study the Run-1 data-access patterns of the whole CMS experiment at Tier-2 level. The purpose of the work was to contribute to a project that aims to exploit the CMS data popularity to model the evolution of the CMS data management towards a dynamic data management.

schools and conferences

Jan 7th-11th
2019

International Winter School on Big Data University of Cambridge, Cambridge, UK
Research training event with a global scope aiming at updating participants on the most recent advances in the critical and fast developing area of big data

July 15th-21st
2018

International Summer School Enrico Fermi on Computational Social Science and Complex Systems Varenna, IT
The Enrico Fermi Schools are a highly prestigious series of summer schools of the Italian Physical Society with a tradition of more than 60 years and with many Nobel laureates as lecturers.

April 12th-13th
2018

COSTNET Networking Biostatistics San Raffaele University, Milano, IT
Graphical models and Applications

March 15th-16th
2018

COSTNET Sandpit Meeting University of Oxford, Oxford, UK
Exploring (massive) network data sets, Network Modelling, Network Inference and Prediction

June 19th-22nd
2017

Structured Regularization for High-Dimensional Data Analysis Summer School Institut Henri Poincaré, Paris, FR

technical skills and expertise

Operating System

- GNU-Linux

Programming Languages Databases

- Python [3+ years experience]
- C++ [4+ months]
- SQL (MariaDB)

Frameworks

- ROOT
- spark

Other

- elements of IT security and cryptography
- elements of functional programming
- elements of design patterns

publications

article in international peer-reviewed journals

Exploiting CMS data popularity to model the evolution of data management
for Run-2 and beyond

. Bonacorsi, D, T Boccali, D Giordano, M Girone, M Neri, N Magini, V Kuznetsov, and T Wildish/
. Journal of Physics: Conference Series 664.3 (2015) p. 032003. 2015

awards

2016-2017

INDEX Paris Saclay Scholarship - €10,000