# MatteoNeri

## PhD candidate and Data Scientist

## contact

Nador utca 11
Office 611, 6th floor
Pest 1051
Budapest, V. kerület
Hungary

+393289536548

github.com/matteoneri

nremtt@gmail.com
Neri_Matteo@phd.ceu.edu

## languages

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

## 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.

| 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.

## **sch**ools 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

## **tec**hnical skills and expertise

**Operating System**

- GNU-Linux

**Programming Languages  Databases**

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

**Frameworks**

- ROOT
- spark

**Other**

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

# pubblications

## 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          **IDEX Paris Saclay Scholarship - €10,000**