

Matteo Neri

Data and Network Scientist, PhD candidate



experiences

April 2018 -
Present

Data Science Consultant

@ Finantial Network 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.

Spring Term
2021

Teaching Assistant - Introduction to Python Programming

DNDS @ CEU,
Vienna, AT

Winter Term
2020

Teaching Assistant - Data Visualization

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

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.

contact

+393289536548

github.com/matteoneri

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

languages

Italian: mother tongue
English: full professional proficiency
Russian: basic level
Spanish: intermediate level

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

2019

EUdatathon: 1st prize "New insights into economics and finance" - €15,000

Competition organized by the EU's Publications Office, in partnership with the Romanian Presidency of the EU Council.

2016-2017

IDEIX Paris Saclay Scholarship - €10,000

technical skills and expertise

I've been collaborating with Central Banks, Financial Intelligence Units and Fraud Investigation Teams to help them get insights from large volumes of data building network-based AI monitoring solutions on interconnected structured and unstructured data.

Operating System

- GNU-Linux

Programming Languages & Databases

- Python [7+ years experience]
- C++ [1+ year]
- SQL (MariaDB)

Frameworks

- ROOT
- Apache Kafka, Parquet
- pandas, graph-tool, igraph, networkx, pytorch
- FNAlab
- AWS

education

2017-Present

PhD Candidate in Network Science

Central European University, Budapest, HU

Summer 2021

Visiting PhD

University of Palermo, Physics Department, Palermo, IT

Summer 2019

Visiting PhD

Aalto University, Helsinki, FI

2015-2017

M.Sc. - Physics of Complex Systems

Paris Saclay University, Paris, FR

2011-2015

B.Sc magna cum laude - Physics

University of Bologna, Bologna, IT

2006-2011

High School Scientific Diploma

Liceo Torricelli, Faenza (Italy)

schools and conferences

Sep 30th- Oct 4th
2019

COSTNET19 Conference
Statistical Network Conference

Bizkaia Aretoa, Bilbao, Spain

Sep 30th- Oct 4th
2019

Conference of Complex Systems (CCS 2019)

Nanyang Technological University, Singapore

Two accepted talks: "Effect of interaction bias on spreading dynamics in social networks". "Econcartography: an exploration of the European Trade Network"

March 18th-20th
2019

Social network analysis in one health epidemiology

Free University of Berlin, Berlin, Germany

Statistical Network Science ECI Training Event

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