

Valentina Biagini

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EDUCATION

UNIVERSITÀ LA SAPIENZA
Workshop on Scientific Writing
March 2016 | Rome, IT
M. Cirilli (CERN)
M. Razzano (INFN)

UNIVERSITÀ LA SAPIENZA
Master in Theoretical Physics
Track: Statistical Mechanics
Oct 2014 | Rome, IT
Supervisor: F. Ricci-Tersenghi
Thesis: Inference of local topology of Wikipedia from the visits time series
Marks: 110/110

UNIVERSITÀ LA SAPIENZA
Bachelor in Physics
May 2008 | Rome, IT
Supervisor: F. Ricci-Tersenghi
Thesis: Analysis of a graph in terms of k-cores
Marks: 105/110

SKILLS

PROGRAMMING

Experienced:
C • Wolfram Language • \LaTeX
Intermediate:
Python
Novice:
R

LANGUAGES

ITALIAN - Mother Tongue
ENGLISH - Fluent
Cambridge Advanced Certificate | Oct 2015
FRENCH - Fluent
Erasmus Project at Université Paris VII (1 y)

COURSEWORK

MASTER

Physics of Complex Systems • Probability Theory • Stochastic Process Theory • Statistical Mechanics and Critical Phenomena • Statistical Mechanics of Disordered Systems • Numerical Analysis Methods in Physics • Science and Technology Communication

LINKS

Data Science Blog:// chaoslikehome
LinkedIn:// biagINVALENTINA
Github:// levantina

EXPERIENCE

WOLFRAM SUMMER SCHOOL | Teaching Assistant
June – July 2017 | Boston, MA
Supporting student with their exercises, homeworks and personal projects and in learning Wolfram Technologies.

SPS S.R.L. | Data Science Consultant
May 2016 – May 2017 | Bologna, Rome
CRM Department of BULGARI: development of descriptive and predictive analytics projects, data monitoring and reporting, providing support in the whole analytic process, from data understanding to business understanding. IBM SPSS technologies.

ROTOSTAMPA TYPOGRAPHY | Consultant
Feb 2015 – Apr 2015 | Remote
Implementation of typographical objects. Programmed in Python.

WOLFRAM SUMMER SCHOOL
July 2013 | Boston, MA

- Project: “What Popularity Tells Us About a Wikipedia Sub-Graph?”
Studying general and particular characteristics of popularity time series of Wikipedia pages, we tried to predict the real connections of a network.

SHL ITALY | Collaborator
2009 – 2012 | Remote
Production of hundreds of Physics tests, for the process of selection, assessment and improvement of staff.

RESEARCH

UNIVERSITÀ LA SAPIENZA | Rome, IT

- “Inference of Local Topology of Wikipedia From Visits Time Series”
Master Degree Thesis | Supervisor: Prof. F. Ricci-Tersenghi
We studied a disordered real system like Wikipedia, using typical tools of statistical mechanics as inference methods based on stationarity approximations. Programmed in Wolfram Language.

- “Networks in Financial Market”
Term paper for “Physics of Complex Systems” | Prof. L. Pietronero
We studied financial networks starting from correlations between S&P stocks, using algorithms on graphs to extract meaningful information, before and after the 2008 financial crisis. Programmed in Python.

- “Statistics of Hydrophobicity Cores in Disordered Proteins”
Term paper for “Biophysics Laboratory” | Prof. A. Giansanti
Using analysis tools of graph theory we tried to highlight some protein properties. This work consisted in writing and calibrating Python code to generate graphs, i.e. hydrophobicity matrices, from protein sequences.

- “Analysis of a Graph in Terms of k-cores”
Bachelor Degree Thesis | Supervisor: F. Ricci-Tersenghi
We analyzed a real network as a graph, highlighting subsets with important connectivity properties. To partition the graph into cores we used a recursive algorithm, called *k*-pruning. Programmed in C.

PHOTOGRAPHY

ADVANCED SCHOOL OF PHOTOGRAPHY
Centro Sperimentale di Fotografia A. Adams
Oct 2012 – June 2013 | Rome, IT

THE DARKROOM PROJECT
Aug 2012 – Sept 2013 | Staff
International exhibitions of analog photography