

PERSONAL INFORMATION **Davide Torre**



PROFESSIONAL EXPERIENCE

July 2020 –

Research Fellow

CNR - Istituto Applicazioni di Calcolo "Mauro Piccone" - under dr. Massimo Bernaschi

Data analyst for complex systems in social-economical field

- Development of mathematical models;
- Programming in C, Processing (JavaScript framework) and Python;
- Data Analysis.

March 2017 – July 2020

Private Tutor for university students

Subjects: Calculus, Linear Algebra, Numerical Calculus

March 2017 – September 2017 **Math and Science teacher**

Istituto Maria Gianelli

Middle school teacher (formally "scuola media superiore")

August 2011 – March 2017 **Data Scientist/Analyst Social Media Dept.**

Musicoff.com

- ADV monitoring and reporting;
- Social Media Management.

RESEARCH ACTIVITY

Articles/Publications

- Guarino S, Mastrostefano E, Bernaschi M, Celestini A, Cianfriglia M, Torre D, Zastrow LR. Inferring Urban Social Networks from Publicly Available Data. Future Internet. 2021; 13(5):108. <https://doi.org/10.3390/fi13050108>
- Guarino S. et al. (2021) A Model for Urban Social Networks. In: Paszynski M., Kranzlmüller D., Krzhizhanovskaya V.V., Dongarra J.J., Sloot P.M. (eds) Computational Science – ICCS 2021. ICCS 2021. Lecture Notes in Computer Science, vol 12744. Springer, Cham. https://doi.org/10.1007/978-3-030-77967-2_23
- Data-Driven Simulation of contagions in public venues - https://www.researchgate.net/publication/352121181_DATA-DRIVEN_SIMULATION_OF_CONTAGIONS_IN_PUBLIC_VENUES

EDUCATION

Marzo 2017– 26 Marzo 2020

Master's Degree in Theoretical Physics

Università degli Studi di Roma "La Sapienza"

Final Grade: 106 / 110. Fields:

- Statistical Physics;
- Quantum Physics
- Complex Systems Physics;
- Computational Physics.

October 2011 – November 2015 Bachelor Degree in Physics

Università degli Studi di Roma "La Sapienza"

Thesys field: Experimental Gravity - aLIGO experiment.

July 2011 Diploma. Formally "Liceo Scientifico Tradizionale"

Liceo Ignazio Vian - Bracciano (Roma)

CERTIFICATIONS**Complex systems**

Santa Fe Institute

I've passed successfully the following course (*GPA* \geq 90%):

- Nonlinear Dynamics: Mathematical and Computational Approaches - Date: 30 March 2020;
- Introduction to Dynamical Systems and Chaos - Date: 13 December 2019;
- Introduction to Complexity - Date 22 December 2019;
- Fractals and Scaling - Date 13 March 2019;

Graph Theory

by Miran Fattah - Udemy. Date: 26 May 2020

Data Science A-Z™: Real-Life Data Science Exercises Included

by Kirill Eremenko - Udemy. Date: 15 May 2020

Learning Path: Julia: Explore Data Science with Julia

Packt/Udemy. Date: 21 November 2019

Corso Competo di Data Science con Python (Data Science with Python - in Italian)

Udemy. Date: 26 September 2019

- Python 3;
- Hadoop;
- TensorFlow;
- Deep Learning;
- Apache Hadoop and Spark;
- Matplotlib and Seaborn.

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1 (ext)	C1 (ext)	C1 (ext)	C1 (ext)	C1 (ext)

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Soft Skill – Team work;

- Reporting;
- Project Planning (with software such as Asana, Trello, etc.);
- AGILE Methodology.

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Proficient user	Proficient user

[Digital competences - Self-assessment grid](#)

- Digital Skills** – Programming languages: C, C++, C#, Perl, R, Java, JavaScript, Python, Julia, Lua, MatLab, GNUOctave, Wolfram Mathematica, Wolfram Alpha, Fortran, Sage, Pacchetto Office, .NET Microsoft, BASH, Processing;
- Unix user since 2011;
 - Database (SQL, NoSQL, NeoGraph4J);
 - Libraries e framework: TensorFlow, Apache Hadoop e Spark;
 - Office Package.

Driving License B,A (mechanical - limitless),AM

PRIVACY STATEMENT

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003 and General Data Protection Regulation (EU) 2016/679, I hereby authorize you to use and process my personal details contained in this document.