Claudio Chiappetta

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Research interests	My research interests revolve around the study of complexity in social systems. I use computational methods to investigate how large groups of people behave, crossing boundaries with different disciplines such as sociology, psychology and economy.		
Education	Sapienza Universita di Roma`	Rome, Italy	
	PhD in Physics	2019 – Ongoing	
	Thesis title: Towards a data-driven approach for the understanding and policing of		
	urban dynamics		
	Supervisor: Prof. Vittorio Loreto		
	Universita degli studi di MIlano`	Milan, Italy	
	Laurea Magistrale (MS) in Physics	2016 – 2018	
	Thesis title: Modelling the birth and evolution of echo chambers		
	Supervisors: Prof. Vittorio Loreto, Dott. Marco Gherardi		
	Co-supervisor: Dott. Vito D.P. Servedio		
	Final mark: 110/110 cum laude		
	Universita degli studi di MIlano`	Milan, Italy	
	Laurea Triennale (BS) in Physics	2012 – 2016	
	Thesis title: Error probability and mutual information in noisy quantum binary		
	Supervisor: Prof. Matteo G.A. Paris		
	Co-supervisor: Dott. Stefano Olivares		
Publications	"Heterogeneity and Segregation of Mobility Patterns" (2021,),	
	in "Handbook on Entropy, Complexity and Spatial Dynamics. The Rebirth of Theory?", A		
	Reggiani, L.A. Schintler, D. Czamanski, R. Patuelli (eds)		
	Edward Elgar Publishing Ltd, Cheltenham, UK, 14 December	2021.	
	Research Fellow	Jan 2019 - Dec 2021	
Research experience	2		
	CNR - Istituto di Geologia Ambientale e Geoingegneria (IGAG)		
	The research project I am working on is part of a large scale effort to improve		
	efficiency of the Italian emergency response system in ca		
	manage different activities, ranging from simulating st	rategies for the rescue	

operations in the aftermath of a disaster, to the analysis of large-scale urban data, to the creation of indicators to measure rescue efficiency in different contexts.

Industry experience Data science Intern Anritsu Solutions		May 2020 - Nov 2020	
	I collaborate with Anritsu Solutions in the development of the eoMind software. I am in charge of studying new algorithms and pipelines for anomaly detection and information mining in telecommunications data streams.		
Portfolio123	Machine Learning Consultant	Feb 2019 - May 2019	
2	I led a research project regarding the use of machine learning techniques for portfolio management. After successful results, I am collaborating with them to implement a cloud-based version of this pipeline that will be offered to their end-users.		
	System administrator	Nov 2016 - Nov 2017	
	LCM - Laboratorio di Calcolo e Multimedia		
	I administered the LCM computing cluster (http://lcm.m computer laboratory and a batch farm, for a total of aro running GNU/Linux.		
Events attended	Summer school, LCSAS, Como (IT)	Jul 2021	
	Complex networks and telecommunications		
	Workshop, CINECA, Bologna (IT)	Nov 2017	
	Debugging and Optimization of Scientific Applications		
	Workshop, Intel in collaboration with Adalta e Bayncore, Mil Technical Computing & Artificial Intelligence Workshop	lan (IT) Oct 2017	
	Summer school, CINECA, Bologna (IT) 25th Summer School on Parallel Computing	Giu 2016	
	Talks, LCM, Milan (IT)	May 2019 - Apr 2018	

Talks given

For two consecutive years I gave talks in my university, the first year explaining basic machine learning techniques and the second year showing how to implement data science methods in python.

Programming Languages

Skills

Proficient in: Python, C++, Bash Familiar with: C, Mathematica, CUDA

Miscellaneous Familiar with: Git, Docker, Spark, GNU/Linux, L^ATEX, Google Cloud/AI Platform, High Performance Computing, Big Data, Machine Learning, Agent Based Modeling

Languages Italian (Mother tongue), English (Fluent)