Paolo Cintia

Phd. · DATA SCIENTIST Pisa, Italy

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Education_____

University of Perugia, Department of Computer Science	Perugia, Italy
B.S. IN COMPUTER SCIENCE	2006
Final thesis: "Developing of a distributed algorithm to solve wave equations"	
University of Pisa, Department of Computer Science	Pisa, Italy
M.S. in Computer Science	2009
Final thesis: "Map matching of GSM records with data mining techinques"	
University of Pisa, Department of Computer Science	Pisa, Italy
Phd in Computer Science	2015
Final thesis: "Knowledge Discovery through Mobility Big Data integration"	

Experience_____

Kode Solutions srl	Pisa,Italy
Senior Data Scientist	Sep. 2022 - ongoing
 Kode is a company focused on develop end-to-end solutions based on Artificial Intelligence adopting a data-driven approa Scientist I coordinate Research and Develop projects, following every step: from the relationships with the customer until the 	
Playerank srl	Pisa,Italy
Co-founder	Jul. 2018 - ongoing
• Playerank is a startup focused on machine learning applied to sports analytics. Founders are researchers from University with many years of experience on the field of Sports Data Science.	of Pisa and ISTI-CNR
University of Pisa, Department of Computer Science	Pisa,Italy
Post-doc researcher	Jan. 2018 - Jan 2022
Data Science for Sports Analytics	
Data mining and knowledge extraction from GPS data	
	Ginevra, Switzerland
CONSULTANT	Dec. 2016 - Apr. 2017
 Data Scientist for the project: "Big Data for Measuring the Information Society" National Research Council, Institute of Information Science, ISTI-CNR 	Diag Italy
	Pisa,Italy
Post-doc researcher	Jan. 2016 - jan 2018
 Data mining and knowledge extraction from Call Detail Records, focusing on human mobility Data Science for Sports Analytics 	
University of Pisa, Master Big Data Analytics & Social Mining	Pisa, Italy
Tutor	Apr 2016
Students Tutor for Big Data Analysis master course	,
North Eastern University	Boston, USA
VISITING RESEARCHER	Mar 2016
Study on Network Science methods to evaluate sports performances	
Parkopedia Ltd	London, UK
Data Scientist	Nov 2015 - Mar 2016
Analysis of Floating Car Data (GPS logs) with focus on parking events detection and prediction	
University of Pisa, Department of Computer Science	Pisa,Italy
Phd candidate	Jan 2012 - Dec. 2015
Study of GIS framework applied on Mobility Big Data (GPS logs, GSM call records)	
Developing of distributed algorithms for mobility Big Data using Spark framework	
Universidad Federal do Cearà	Fortaleza, Brazil
VISITING RESEARCHER	Aug 2012
 Study of a point-based map-matching algorithm for estimating travel times on a city road network University of Tartu 	Tarty Estania
-	Tartu, Estonia
VISITING RESEARCHER	Jan 2014 - May 2014
• Study on events detection through Call Detail Records enriched with higher semantic level data (twitter, web queries, etc.))

Research Projects

SoBigData Research Infrastructure sobiqdata.eu PARTICIPANT Jan 2015 - PRESENT • Research project on performance analysis exploiting BigData and IoT ASAP: an adaptive scalable analytics platform asap-fp7.eu Jan 2015 - Feb 2017 PARTICIPANT • Develop of an open source distributed framework for Mobility Big Data Analysis DATASIM Data Science for Simulating the Era of Electric Vehicles uhasselt.be/datasim Participant 2013 • Study of data mining methods to exploit car traffic prediction models SEEK Semantic EnrichmEnt of trajectory Knowledge discovery seek-project.eu PARTICIPANT 2012 • Study on methods for knowledge extraction and semantic enrichment for Mobility Data

Publications_

2022	A Narrative Review for a Machine Learning Application in Sports: An Example Based on Injury	MDPI
	Forecasting in Soccer, Sports 10.1	
2021	Explaining the difference between men's and women's football,	PlosOne
	https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0255407	
2020	Automatic Pass Annotation from Soccer VideoStreams Based on Object Detection and LSTM, European	ECML PKDD
	Conference on Machine Learning	2011271188
2020	The relationship between human mobility and viral transmissibility during the COVID-19 epidemics in	submitted for
	Italy, Joint study with Italian Health institute (ISS)	publication
2019	A public data set of spatio-temporal match events in soccer competitions., Scientific Data	Nature
2019	Relationship between External and Internal Workloads in Elite Soccer Players: Comparison between	MDPI
	Rate of Perceived Exertion and Training Load, Applied sciences	
2019	PRIMULE: Privacy risk mitigation for user profiles, Data and Knowledge Engineering	Elsevier
2019	PlayeRank: data-driven performance evaluation and player ranking in soccer via a machine learning	ACM
2020	approach, ACM Transactions on Intelligent Systems and Technology (TIST)	
2017	Discovering and Understanding City Events with Big Data: The Case of Rome, Information (8, no. 3: 74)	MDPI
2018	Effective injury prediction in professional soccer with GPS data and machine learning,	PlosOne
	https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0201264	
2017	Quantifying the relation between performance and success in soccer, Advances in Complex Systems	World Scientific Publishing
2016	The Haka Network: Evaluating Rugby Team Performance with Dynamic Graph Analysis , Dyno 2016: 2nd International Workshop on Dynamics in Networks	San Francisco, USA
2015	"The harsh rule of the goals": Data analytics and football team success, IEEE International Conference on Data Science and Advanced Analytics	Paris, France
2013	Inferring human activities from GPS tracks., 2nd ACM SIGKDD International Workshop on Urban Computing	Chicago, USA
2013	"Engine matters": a first large scale data driven study on cyclists' performance. , DMCS 2013 - Workshop on Data Mining Case Studies and Practice Prize	Dallas, USA
2013	A gravity model for speed estimation over road network, Mobile Data Management. IEEE 14th	Milano, Italy
2012	International Conference	DeelsChaut
2013	Mobility profiling., Data Science and Simulation in Transportation Research. pp. 1 - 29.	Book Chapter
Progr	ram Committees	

2021	Reviewer, Data Mining and Knowledge Discovery	Springer journal
2019,2020	D Scientific consultant - Sports technology hall, Maker Faire	Roma
2018	Reviewer, EPJ Data Science	-
2018	Program Commitee member, CompleNet 18 - International Conference on Complex Networks	Boston- USA
2017	Reviewer, Journal of Sports Sciences	-
2017	Co-organizer , DAPS 2017 - 2nd workshop on Data mining for the Analysis of Performance and Success.	New Orleans- USA
	Co-located with ICDM, International Conference on Data Mining	New Oneuns- USA
2017	Program Commitee member, Machine Learning and Data Mining for Sports Analytics	Skopje
2017	Co-organizer , Quantifying Success - 4th satellite Workshop in Science of Success. Co-located with	Indianapolis - USA
	NETSCI2017, International School and Conference on Network Science	
2016	Co-organizer , DAPS 2016 - 1st workshop on Data mining for the Analysis of Performance and Success.	Barcelona - Spain
	Co-located with ICDM, International Conference on Data Mining	Батсеюна - эрант
2015	Reviewer, IEEE Transactions on Knowledge and Data Engineering	-
2014	Program Commitee member, eKnow 2015 - International Conference on Information, Process, and	Lisbona
	Knowledge Management	LISDONU

Writing and Communication

Rigore di testa: storie di pallone, paradossi, algoritmi. Il calcio e i numeri come non li avevate mai visti	https://amzn.to/38u5ujN	
AUTHOR	2021	
Book covering stories about the application of big data techniques to football. Co-authored with Marco Malva	ldi, italian best-seller writer.	
DataFC Youtube channel	https://bit.ly/3zebqZ4	
AUTHOR AND SPEAKER	2021	
Youtube channel dedicated to football analytics		
Soccer Data Challenge	"https://bit.ly/3wX207D"	
Co-Organizer	2018,2019	
A 2-days hackathon dedicated to soccer data, organized in conjunction with Internet Festival (2018) and Festival dello Sport (2019) sole24ore - Nòva "https://bit.ly/3zc11NT"		
Contributor	Jun. 2015	
Stories from the world of Data Science		
Internet Festival 2016	https://bit.ly/3N5tUzd	
Speaker	Oct. 2016	
Speech on Sports and Data Science		
Internet Festival 2015	https://bit.ly/3MOSZdp	
Speaker	Oct. 2015	
Speech on the impact of BigData for soccer		
Skills		

ProgrammingPython, Spark, Sql, MongoDb, GIS, LaTeXLanguagesItalian, English