

PERSONAL INFORMATION

Paolo Tamagnini

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Sex Male | Date of birth 18/05/1993 | Nationality Italian

WORK EXPERIENCE

15/08/2016–Present

Intern Researcher

Enrico Bertini, New York (United States)

Last August I started an unpaid internship with Enrico Bertini, assistant professor at New York University, Tandon School of Engineering.

The internship involved the developing of an individual project in the research team in Visual Analytics of Prof. Bertini.

My internship at NYU lasted 3 Months from August 15th through November 15th 2016, 5 days a week. Then I had a break to give my exams this winter and now I am working again for Prof. Bertini, while attending lectures at Sapienza. On February 2017 I wrote a short paper about my project, which has been selected for the workshop HILDA 2017.

This project is involving the development of a visual analytics tool able to display interactively machine learning explanations, created with the algorithm by Martens and Provost.

My plans are to come back after my graduation in New York City to further develop my project.

01/09/2015–31/07/2016

Free Lance Website and App Developer

Photoatlante srl, Rome (Italy)

Photoatlante srl is a publishing company of photographic books.

Recently it required my services to publish ebooks for tablets and smartphones.

I am currently in a team with a programmer, a graphic designer and a project manager to create an app both for Android and iOS.

The app is able to browse a Wordpress website where it is possible to redeem or buy the ebook in an html5 package. The ebooks is downloaded in the app from Amazon S3 and stored in hidden folders. Then the same app is able to open and display the html5 ebook made of photos and videos. One of my duties was to change the php template of Woocommerce and of the theme, so that the customer could automatically download the ebook by inserting a coupon. Moreover I am always available to the project manager as a consultant to find solutions and plan the whole process.

EDUCATION AND TRAINING

15/09/2015–Present

Master in Data Science - [28176] DATA SCIENCE [LM (DM 270/04) - ORDIN. 2016 - Corso erogato in LINGUA INGLESE]

EQF level 7

Sapienza - Università di Roma, Rome (Italy)

Laurea Magistrale in Data Science is a new Master's degree taught in English. It is a joint initiative within the i3S Faculty combining the expertise of four Departments: Informatics, Department of Computer, Control and Management Engineering, Information Engineering, Electronics and Telecommunications, Statistics. This Master's program provides a solid and modern preparation to understand and manage the multi-facet aspects of carrying out a complete data analysis, including acquisition, management, and statistical analysis.

Completed course units so far:

Exam_Mark_Credits(ECTS)

FUNDAMENTALS OF DATA SCIENCE AND LABORATORY(Python) 30/30 9,00
 ALGORITHMIC METHODS OF DATA MINING AND LABORATORY(Python) 29/30 9,00
 STATISTICAL METHODS IN DATA SCIENCE AND LABORATORY 30/30 12,00
 INTELLECTUAL PROPERTY COMPETITION AND DATA PROTECTION LAW 30/30 6,00
 DATA MINING TECHNOLOGY FOR BUSINESS AND SOCIETY 30elode/30 6,00
 NETWORKING FOR BIG DATA AND LABORATORY 30elode/30 9,00
 QUANTITATIVE MODELS FOR ECONOMIC ANALYSIS AND MANAGEMENT 29/30 6,00
 OPTIMIZATION METHODS FOR MACHINE LEARNING 29/30 6,00
 DIGITAL EPIDEMIOLOGY 28/30 6,00

Projects within those units:

Collecting files from kijiji.com, to build an inverted index and a search engine.

Downloading with tweepy 10k tweets and the followers of their users, storing all the data on mongoDB, building a graph to compute some analysis.

Creating a recommendation system from 10k ratings of movies.

Joining a competition on kaggle.com (<https://goo.gl/04DbTK>) to predict a recipe nationality given its ingredients. (Logistic regression)

Joining a competition on kaggle.com (<https://goo.gl/2VL1Kh>) to predict the kind of a crime given exact time and location. (Naive Bayes)

Experimenting the performance of different techniques for ranking documents over a query (TF-IDF, BM25, ..).

Experimenting different techniques to predict future friendships in a Facebook graph (Jaccard, AdamicAdar, Preferential attachment, ..).

Using again link prediction in graph to build a movie recommendation system given a group of people with different tastes on Moveilens 100k Dataset.

Creating a Markov Chains model based on estimation of the weights of rats (Gelfand et al, 1990).

Creating an Multi Layer Perceptron model for approximating the Franke's function.

Creating a Support Vector Machine model on the handwritten digits data-set from U.S. Postal Service scanned mails.

Creating a SIR model to detect the spreading of a virus on a Facebook graph using sentinel nodes.

Predicting the number of influenza cases of 2017 in Italy, given the distribution of clicks over italian Wikipedia pages of interest.

I am attending right now the final semester of my 2-year master program.

Indeed i am planning to graduate during the 2017.

01/09/2012–23/10/2015

Bachelor Degree in Management Engineering - INGEGNERIA GESTIONALE [L (DM 270/04) - ORDIN. 2010]

EQF level 6

Sapienza - Università di Roma, Rome (Italy)

Voto di Laurea (Overall Score): 107/110

This degree covered many different areas and gave me the flexibility to face various subjects. This skill is useful this year in the approach of Data Science which comprehends disciplines and requires different backgrounds.

Thesis:

Design and implementation(Java+SQL) of a software able to find functional dependencies in relational databases.

Labs:

Business Game: Simulation of business in manufacturing dishwashers. My team won the competition. (<http://www.umc2.it/>)

Operative Search Lab: Competition in optimizing with AMPL the profit function of a car-sharing business.

Exam_Mark_Credits(ECTS)

Calculus I 27/30 12,00
 Geometry 21/30 12,00
 Programming (Java) 28/30 12,00
 Physics 26/30 12,00
 Probability Calculus 26/30 6,00
 Calculus II 24/30 6,00
 Chemistry 29/30 6,00
 Electrotechnology 30/30 6,00
 Operative Search 21/30 12,00
 Microeconomics 28/30 6,00
 Telecommunications 31/30 9,00
 Modelling 21/30 9,00
 Economics and Business 30/30 9,00
 Macroeconomics 29/30 6,00
 Combinatorial Optimization 27/30 6,00
 Technology of production 28/30 6,00
 Industrial Infrastructure 31/30 6,00
 Electronics 25/30 6,00
 Statistics 28/30 6,00
 Databases 28/30 6,00
 Management 20/30 9,00

01/09/2010–30/06/2011

EF High School Exchange Year

exchange year
abroad

Newfield Highschool, Selden - Long Island - NY (United States)

I have spent my 4th year of high school in US. Spending 9 months in Long Island allowed me to learn English. Relevant classes I took were AP Calculus, AP Physics and Web Design. In the AP Physics test I scored 4.

15/09/2007–15/06/2012

High School Graduation - Diploma Liceo Scientifico

EQF level 4

Liceo Scientifico Taletè, Rome (Italy)

Liceo Scientifico covers a complete and widespread range of disciplines, including Italian language and literature, mathematics, physics, chemistry, biology, history, philosophy, Latin language and culture, English language and culture, art history and technical drawing.

State Exam "Maturità Scientifica" Score: 81/100

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C2	C2	C2	B2
IELTS Academic 7.5 (C1)					

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Communication skills

In summer 2015 I organized a kayak trip around the island of Rab in Croatia. We were travelling along a partially desert coast with limited supply and long distances to cover. I led the group along the route giving each member a role, managing water, food and camp locations. This challenge and the labs in the bachelor helped me experience my communication and managerial skills within a group that required coordination.

Job-related skills

I do archery and apnea. Both disciplines require great focus but also instincts. Archery requires

sudden moves in a steady and precise way. Apnea, where you hold your breath aiming to dive as deep as possible in the sea, also requires great focus and concentration to make sure you feel calm but aware of your body performance. In Fall 2015 I took an apnea license, reaching the depth of 30 meters. I believe that this ability of focusing but also of following my instincts will be important in my future career.

Digital competence

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

Digital competences - Self-assessment grid

Known Programming Languages:

Java
 Python
 JavaScript
 SQL
 Html
 php
 Css
 AMPL
 R
 MatLab
 Javascript
 D3