# Paolo Tamagnini

https://paolotamag.github.io

Email : paolotamag@gmail.com
Mobile : +1 (929) 217-1671

## EDUCATION

**Sapienza University of Rome** — Rome, Italy
*Two-year Master of Science in Data Science; GPA: 4.00 (110 cum laude / 110)* — Oct. 2015 – Oct. 2017

- ○ **The first master in Italy for data science**: Right after my bachelor graduation, I joined a fresh new master in data science, completely in english, with international students and professors with different backgrounds. Some of the studied topics were: data management, data mining, data manipulation, statistical inference, Bayesian inference, cloud computing, machine learning algorithms, clustering, data visualization, digital epidemiology, bioinformatics, game theory and more. Most of the projects were coded in Python or R and they are all uploaded to my GitHub. I also attended the IBM camp and the Google's Machine Learning Crash Course hosted at Sapienza during the summer. My thesis was about the intersection between visual analytics and machine learning and related to a tool I developed at New York University. I graduated in October 2017 being part of the first graduation of data science in Italy with important guests from companies and institutions like Google, Eurostat, IBM, Microsoft and more.

**Sapienza University of Rome** — Rome, Italy
*Bachelor of Engineering in Management; GPA: 3.89 (107 / 110)* — Oct. 2012 – Oct. 2015

- ○ **A bachelor to get a general understanding in most scientific and business areas**: In my first 3 years of university I had the chance to study many different fields (economics, management, telecommunications, electronics, computer science and more). The eclecticism of this course helped me to find my love for big data and taught me to be flexible for the many different applications and domains a data scientist must face.

## EXPERIENCE

**New York University, Tandon School of Engineering** — Brooklyn, NY
*Research Intern* — Aug. 2016 – May 2017

- ○ **Rivelo**: Working as a research intern in the team of Prof. Enrico Bertini I could study the past research related to the intersection between visual analytics and machine learning. I developed Rivelo: a visual interactive interface able to explain decisions of a broad variety of machine learning binary classifiers through interactive visual representations. I was the only developer behind the tool, made of a server part in python and a client in JavaScript with the d3 library. I also wrote the related paper for the Workshop on Human-In-the-Loop Data Analytics in Chicago where I went myself to present my work in May 2017.
  More info and a live demo at **nyuvis-web.poly.edu/projects/rivelo**.

**Photoatlante srl** — Rome, Italy
*Free-lance Developer* — Oct. 2012 – Oct. 2017

- ○ **Websites for a photobook publisher**: Over my last 5 years of studies I worked to develop some websites for my family company. For this reason I learned on my own to code for web design in html, css, php and javascript. I had for example to modify Wordpress plugins for specific needs.
- ○ **Publishing digital books**: In the same company I had the responsibility to manage the publications on Google Books and iBooks. Moreover I had to design a coupon-based web app for redeeming and downloading digital books with photos and videos from Amazon S3 to different devices.

## PROGRAMMING SKILLS

- **Languages**: Python, JavaScript, d3.js, R, SQL, Java, html, css, AMPL, MatLab, php

- **Technologies**: TensorFlow, Watson Analytics, IBM SPSS, Amazon S3, mySQL, mongoLab

## PUBLICATIONS

- **Interpreting Black-Box Classifiers Using Instance-Level Visual Explanations**:
  Paolo Tamagnini, Josua Krause, Aritra Dasgupta and Enrico Bertini.
  In Workshop on Human-In-the-Loop Data Analytics (HILDA)
  Chicago, May 2017, co-located with SIGMOD 2017.

## FREE TIME

I mostly like to stay with my friends. We often plan trips and excursions like camping, hiking, kayaking and sea diving. Most of my friends are spread around Europe and our trips are a fun way to get together. I also like video games, archery, swimming and biking. Biking especially in New York :)