

Paolo Tamagnini

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Data scientist with research experience, fond of interactive data visualization for complex problems, data evangelist in the open source space, aware of pros and cons of both scripting and UI-based ML platforms.

Keywords: *visual programming, visual analytics, data science, eXplainable AI, Python, JavaScript, d3.js*

EXPERIENCE

- **KNIME GmbH** Berlin, Germany
Senior Data Scientist, Evangelism Team *May. 2018 – present*
 - **Building Data Science Apps via Visual Programming:** At KNIME I am building back-end and front-end apps via the KNIME visual programming framework. Those apps are then adopted, customized and deployed by KNIME customers. Since May 2021 I have been leading a team of data scientists to build, verify, document and publish Verified Components. Sometimes scripting in *JavaScript*, *Python* and *R* is required. The apps I personally build are around those topics: guided/visual analytics, autoML, human-in-the-loop, MLOps, active learning, weak supervision and explainable/responsible AI.
 - **Evangelism via Articles, Conferences and Social Media:** After a new app is made publicly available on KNIME Hub or an innovative KNIME feature is released, I work with my team to create contents on different formats for external and internal channels. For example I talk about my work on data science online magazines, business conferences, meetups and webinars. Find links on my my website or follow me on Twitter :)
 - **Supporting the KNIME Community:** Given that KNIME Analytics Platform is free and open source many community members are also inspired by our work and share their own projects online. I am currently scouting, supporting and highlighting their work regardless of whether they are partners, customers or simply KNIME users.
 - **Gartner Magic Quadrant and Forrester Wave:** Each year I support the leadership team in preparing the briefings for external reports such as Gartner and Forrester which review and benchmark KNIME software in comparison with other vendors.
- **New York University, Tandon School of Engineering** Brooklyn, NY
Research Intern *Aug. 2016 – Nov. 2017*
 - **Developing Machine Learning Applications in Python and JavaScript:** Working as a research intern in the team of Prof. Enrico Bertini we developed two XAI tools Rivelo and a Python package partial-dependence. I presented both of them at a Google NYC Research Seminar .

EDUCATION

- **Sapienza University of Rome** Rome, Italy
Two-year M.Sc. in Data Science; GPA: 4.00 (110 cum laude / 110) *Oct. 2015 – Oct. 2017*
 - **The first master in Italy for data science:** Studied topics were: machine learning, statistical and bayesian inference, cloud computing and more. Most of the projects were coded in *Python* or *R* and they are all uploaded to my GitHub. 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, Unicredit and more.
- **Sapienza University of Rome** Rome, Italy
B.Eng. in Management; GPA: 3.89 (107 / 110) *Oct. 2012 – Oct. 2015*
 - **A bachelor covering basics most scientific and business areas:** This course helped me to find my love for data and taught me to be flexible to many different domains.

PROGRAMMING SKILLS

- **Languages:** Python, JavaScript, d3.js, R, SQL, Java, html, css, AMPL, MatLab, php
- **Technologies:** TensorFlow, Watson Analytics, KNIME, IBM SPSS, Amazon S3, mySQL, mongoLab

PUBLICATIONS

- **Interpreting Black-Box Classifiers Using Instance-Level Visual Explanations:**
P. Tamagnini, J. Krause, A. Dasgupta and E. Bertini. In Workshop HILDA co-located with SIGMOD 2017.