

Paolo Tamagnini

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Senior Data scientist with research experience, fond of interactive data visualization for complex problems, data evangelist for low-code/no-code platforms, with experience in leading a team of data professionals.

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

EXPERIENCE

- **KNIME** Berlin, Germany
Senior Data Scientist, Evangelism Team May. 2018 – present
 - **Evangelism through the KNIME Educators Alliance:** Since May 2023 I have been scouting and supporting academics and lecturers for the [KNIME Educators Alliance](#). Besides supporting them in their teaching, I am also managing special collaborations by integrating requested functionalities in KNIME via components and workflows. This required to translate the academics abstract ideas into precise requirements, then implement these on the fly.
 - **Building Data Science Apps via Low-Code/No-Code:** Since May 2021, through the maintenance of a JIRA board and Confluence pages, I have been coordinating/leading a team of volunteers from different teams 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 and Upskilling via Articles, Conferences and Social Media:** Since May 2018 I have been working within the Evangelism team to create contents for data science online magazines, business conferences, meetups and webinars. Find links on my [my website](#). Between late 2021 and early 2023 I led the a sub-team of evangelists through a Trello board to support the junior hires in the usual evangelism activities, scouting and reviewing [Community Components Collections](#) shared by the open source KNIME community: partners, customers or simply KNIME fans.
 - **Gartner Magic Quadrant and Forrester Wave:** In 2018, 2019 and 2020 I supported 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.
 - **Working with KNIME Devs and Product Owners:** In the first years at KNIME, I was heavily involved in verifying and testing the developed software from within different Scrum teams. I understood first-hand concepts like features prioritization with limited resources and trade-offs between business requirements, UX constraints and technology limitations.
- **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. You can check my projects in *Python* and *R* on my [GitHub](#).
- **Sapienza University of Rome** Rome, Italy
B.Eng. in Management; GPA: 3.89 (107 / 110) Oct. 2012 – Oct. 2015

PROGRAMMING SKILLS

- **Languages:** Python, d3.js, R, SQL, HTML, CSS // **Tools:** KNIME, quick learner of other workflow-based frameworks

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.