

# 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, KNIME, d3.js*

## EXPERIENCE

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- **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 a team of volunteers (mostly KNIME data scientists and solution engineers) to build, verify, document and publish (via monthly releases) [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: data science online magazines, business conferences, meetups and webinars. Find links on my [my website](#). During 2021 and 2022 I led the upskilling sub-team through a Trello board, supporting 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 software in-development from within the 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

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- **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

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

## PUBLICATIONS

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- **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.