

Mattia Setzu

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📍 Pisa, IT

🔗 msetzu.github.io/about

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Publications

- **Triplex: Triples for Explanation**, *Mattia Setzu, Anna Monreale, and Pasquale Minervini*; to appear in The Third IEEE International Conference on Cognitive Machine Intelligence, Dec. 2021.
- **GLocalX - From Local to Global Explanations of Black Box AI Models**, *Mattia Setzu, Riccardo Guidotti, Anna Monreale, Franco Turini, Dino Pedreschi, and Fosca Giannotti*; Special Issue on Explainable Artificial Intelligence, Journal of Artificial Intelligence, Feb. 2021.
DOI: [10.1016/j.artint.2021.103457](https://doi.org/10.1016/j.artint.2021.103457) | Download
- **Global Explanations with Local Scoring**, *Mattia Setzu, Riccardo Guidotti, Anna Monreale, and Franco Turini*; XKDD@ECML/PKDD, Proceedings for the The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, Sept. 2019.
DOI: [10.1007/978-3-030-43823-4_14](https://doi.org/10.1007/978-3-030-43823-4_14) | Download
- **SPARQL Queries over Source Code**, *Setzu Mattia, Atzori Maurizio*; Preceedings for the International Conference on Semantic Computing (ICSC), Feb. 2016.
DOI: [10.1109/ICSC.2016.65](https://doi.org/10.1109/ICSC.2016.65) | Download

Education

Ph.D. in Computer Science, Università di Pisa

📅 Nov 2018 – May 2022

📍 Pisa, IT

Thesis Opening the Black Box: Empowering Machine Learning Models with Explanations

Master's degree in Computer Science, Università di Pisa

📅 Sep 2016 – Oct 2018

📍 Pisa, IT

Thesis Building Global Interpretable Classifiers Via Local Explanations
Score 110 with honors/110

Bachelor's degree in Computer Science, Università di Cagliari

📅 Sep 2012 – Mar 2016

📍 Cagliari, IT

Thesis CodeOntology: a Java semantic database
Score: 103/110

Extra-curricular activities Startup Weekend Cagliari 2015 and 2016 edition; Semantic Web and Open Data seminar; Cagliari Open Data Day 2016; Contamination Lab UniCA, Semantic Web Lab.

Research Interests



Explainable AI

I focus on research and development of transparent machine learning models understandable by humans.

Software

GLocalX

github.com/msetzu/glocalx

Triplex

github.com/msetzu/triplex

RRS

github.com/msetzu/rule-relevance-score

Skills & tools

Python

Pandas

Numpy

Matplotlib

Keras

SKlearn

Jekyll

HTML5

CSS3

Javascript

Latex

Markdown

git

Vagrant

Linux

Teaching experience

University of Pisa, Teaching Assistant

📅 Jan 2019 – May 2019

- Teaching assistant for the "Programming Fundamentals" course, a first-year course on programming fundamentals for Physics bachelor students.

Work experience

Need for Nerd, Back-end developer

📅 Nov 2015 – Feb 2016

<http://needfornerd.com/>

- Developed back-end and the front-end of portal.