

# Mattia Setzu

Ph.D. candidate in Computer Science at UniPI (XXXIV cycle, 2018-2021)

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📍 Pisa, IT

🔗 [msetzu.github.io/about](https://msetzu.github.io/about)

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🐙 [github.com/msetzu](https://github.com/msetzu)

## 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

### 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](https://github.com/msetzu/glocalx)

### Triplex

[github.com/msetzu/triplex](https://github.com/msetzu/triplex)

### RRS

[github.com/msetzu/rule-relevance-score](https://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.