

MATTIA SETZU

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

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📍 Pisa, IT

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Publications

- **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
- (Retired) **CodeOntology: a Java semantic database**, Setzu Mattia, Atzori Maurizio; Preceedings for the Undergraduate Research Competition at the International Conference for Management of Data (SIGMOD), Jun. 2016.

Education

Master's degree in Computer Science, Università di Pisa

📅 Sep 2016 – Oct 2018

📍 Pisa, IT

Thesis Building Global Interpretable Classifiers Via Local Explanations

Relevant courses Machine Learning, Natural Language Processing, Data Mining, Information Retrieval, Computational Mathematics, Advanced Algorithms, Advanced Programming, Parallel and Distributed Algorithms, and Advanced Databases.

Score 110 with honors/110

Extra-curricular activities PhD+ programma di valorizzazione della ricerca, innovazione e spirito imprenditoriale; Research, innovation and the future of ICT seminars; Soccer Data Challenge

Bachelor's degree in Computer Science, Università di Cagliari

📅 Sep 2012 – Mar 2016

📍 Cagliari, IT

Thesis CodeOntology: a Java semantic database

Relevant courses Programming fundamentals, OO programming, Computer architectures, Operating Systems, Computer Networks, Linear Algebra, Differential Calculus, Statistics, Automata and Formal Languages, Compilers & interpreters, Scientific Computing, Web Development, Human-Machine Interaction, Databases, and Software Engineering. **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

RRS

github.com/msetzu/rule-relevance-score

Skills & tools

Python

Pandas

Numpy

Matplotlib

Keras

SKlearn

Jekyll

HTML5

CSS3

Javascript

Latex

Markdown

SQL/SPARQL

OWL

git

Vagrant

Linux

Work experience

Need for Nerd, Back-end developer

📅 Nov 2015 – Feb 2016

<http://needfornerd.com/>

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