

Federico Croce

CONTACT

Nationality: Italian



Rome, Italy



<https://sites.google.com/diag.uniroma1.it/crocefederico>

ABOUT ME

My research activities concentrated on finding new applications of the Ontology-Based Data Management paradigm related to the Explainable Artificial Intelligence.

EDUCATION AND TRAINING

2017 - **CURRENT** - Rome, Italy

Ph.D in Engineering in Computer Science

Sapienza University of Rome

2015 - 2017 - Rome, Italy

Master of Science in Engineering in Computer Science

Sapienza University of Rome

110/110 cum laude

Excellence Path

Grading in list: 1st

"Excellence Path" of the master degree in Engineering in Computer Science. During the Path I worked with Semantic Technologies applied to database systems.

2012 - 2015 - Rome, Italy

Bachelor Degree in Engineering in Computer Science

Sapienza University of Rome

110/110 cum laude

Excellence Path

"Excellence Path" of the bachelor degree in Engineering in Computer Science. During the Path I wrote a report on the technologies behind computer chess programs and I developed a facial recognition tool to be used as a login facility.

2007 - 2012 - Rome, Italy

Scientific Certificate - Secondary School diploma

LSS Benedetto Croce

WORK EXPERIENCE

01/2020 - **CURRENT** - Rome, Italy

Head of Artificial Intelligence

GMATICS S.r.l.

Design, implementation and management of Artificial Intelligence solutions to remote sensing with satellites and airborne imageries.

10/2018 - 10/2019 - Pasadena, United States

Visiting Researcher - Data Engineer

NASA Jet Propulsion Laboratory

Application of Machine Learning solutions to remote sensing with satellites and airborne imageries. Collaboration in the joint ESA/NASA Multi-Mission Algorithm and Analysis Platform (MAAP)

11/2017 - **CURRENT**

Data Engineer for OBDA Systems

OBDA Systems

Data Engineer for the Sapienza startup OBDA Systems. The business value of the startup is to propose state-of-the-art solutions based on the most recent innovations in the field of semantic technologies to provide its clients with a direct and effective means for extracting key data from large and complex datasets.

Rome, Italy

12/2017 – CURRENT

Teaching Assistant in Engineering in Computer Science

Sapienza - University of Rome

- Teaching of laboratory lessons
- Preparing and checking Homeworks and Assignments
- Office Hours

Rome, Italy

10/2015 – 07/2016

Full Stack Developer of a web-based application for the CRM management

Nuove Visioni S.r.l.

Design, development and maintenance of the database as well as integration of it with the web application.

Guidonia (RM), Italy

HONOURS AND AWARDS

Honours and awards

19/06/2015

honour scholarship, "alla memoria dei Coniugi Ernesto e Iole DE MAGGI"

www.fondazionesapienza.uniroma1.it/

PUBLICATIONS

● **Explaining Classifiers in Ontology-Based Data Access**

2020

F Croce, M Lenzerini
Workshop XLoKR at the 17th International Conference on Principles of Knowledge Representation and Reasoning (KR2020)

● **Ontology-based explanation of classifiers**

2020

F Croce, G Cima, M Lenzerini, T Catarci
2nd International Workshop on Processing Information Ethically at EDBT/ICDT.

● **On Queries with Inequalities in DL-LiteR#.**

2019

G Cima, F Croce, M Lenzerini, A Poggi, E Toccaceli
32nd International Workshop on Description Logics (DL2019)

● **A Framework for Explaining Query Answers in DL-Lite**

2018

F Croce, M Lenzerini
21st International Conference on Knowledge Engineering and Knowledge Management (EKAW2018)

● **On the Experimental Usage of Ontology-based Data Management for the Italian Integrated System of Statistical Registers: Quality Issues**

2018

F Croce, DF Savo, M Lenzerini, et al.
European Conference on Quality in Official Statistics (Q2018)

CONFERENCES AND SEMINARS

● Conferences

4-th International Winter School on Big Data (BigDat2018) , Timisoara, Romania

The winter school will take place from 22/01 to 26/01 2018. The lectures will be:

- Big Data in biomedical science
 - MapReduce algorithms for Big Data
 - Semantic Technologies for Open data publishing
 - Unstructured Big Data
- and more.

Curatorship: Jeffrey Ullman (Stanford University)

Character: Student

<http://grammars.grlmc.com/BigDat2018/index.php>

Reasoning Web Summer School (RW 2017) , University of Birbeck , Londra

The summer school took place from 7/7 to 11/7 2017. The lectures were:

- Semantic Data Integration on the Web of Open Data
 - Ontological query answering over semantic data
 - Integrating Relational Databases with the Semantic Web
 - OBDA for log extraction in process mining
- and more.

Curatorship: Domenico Lembo, Università La Sapienza - Roma

Character: Student

2017.ruleml-rr.org/call-for-13th-reasoning-web-summer-school-rw-2017/

Extending Database Technologies Summer School (EDBT 2017) , Nervi (GE) , Genova

The summer school took place from 4/9 to 8/9 2017. The lectures were:

- Crowd Data Sourcing
 - Query Answering
 - Intelligent Web Extraction
 - Data Quality
 - Data Integration
- and more.

Curatorship: Georg Gottlob, Oxford University, UK

Character: Student

<http://edbtschool2017.dibris.unige.it/>

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

OTHER LANGUAGE(S):

English

Listening
C2

Reading
C2

**Spoken
production**
C1

**Spoken
interaction**
C1

Writing
C2

French

Listening
A1

Reading
A1

**Spoken
production**
A1

**Spoken
interaction**
A1

Writing
A1

DRIVING LICENCE

● **Driving Licence:** A

● **Driving Licence:** B

ORGANISATIONAL SKILLS

● **Organisational skills**

Good leadership and team-work planning skills. Excellent resilience and resistance to high stress and hostile environments. Capability of working in a multicultural team while maintaining impartiality and objectivity.

COMMUNICATION AND INTERPERSONAL SKILLS

● **Communication and interpersonal skills**

Good communication and contact skills also in a multicultural environment. Capability of obtaining and maintaining people's attention while remaining focused. Good team-working skills.

JOB-RELATED SKILLS

● **Job-related skills**

Good teaching and mentoring skills. Propensity for research and study. Self-reliant and reliable in carrying out duties. Good exposition and public presentation skills.

OTHER SKILLS

● **Other skills**

Scout AGESCI since 2004. Black belt first DAN Karate (SHOTOKAN) since 2010. PADI Advanced Open Water Diver since 2015. 6 years of musical studies both theoretical and practical (Piano and Guitar). Agonistic swimmer and short CONI experience. BLS-D (Basic Life Support and Defibrillation) certificate released by Croce Rossa Italiana, May 2017.

VOLUNTARY WORK EXPERIENCES ABROAD

● **Studies and experiences abroad**

2011:

Voluntary work at Brighton & Hove Wood Recycling Project

<https://www.woodrecycling.org.uk/>

Place: **Brighton (United Kingdom)** | Language: English | Duration: 3 (months)