



Marco Cremaschi, PH.D

Research Assistant

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Socials

LinkedIn
[marco-cremaschi](#)

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Languages

Italian
Native

English
Professional working

Research

Research Profile

I am a PhD in Computer Science (University of Milan-Bicocca, 2020) and currently a researcher at the University of Milan-Bicocca (DISCo), working at the intersection of **Semantic Web/Knowledge Graph technologies** and **AI/ML**, with a specific focus on semantic table interpretation, data enrichment, and LLM-based systems for decision support.

My research spans end-to-end methods and tools for building high-quality semantic representations from heterogeneous data, and applying them to real-world domains including **mental health** and **early risk detection**, through **clinical decision support** and predictive modelling.

I have authored peer-reviewed publications in leading conferences and journals, with a solid research impact and international recognitions including ESWC Best Demo Award (2019) and ISWC Best Resource Award (2025).

I actively contribute to the research community through service and leadership roles (e.g., Chair of SemTab@ISWC, tutorial organisation, associate editor and PC/reviewer roles).

A key dimension of my profile is the **continuous involvement in international research networks and projects**: I hold responsibilities in COST Actions and I have contributed to EU-funded initiatives on open data exploitation and semantic enrichment.

I also gained **international experience** through research activity abroad at Bielefeld University (Semantic Computing Group) and through research contracts at Sofia University "St. Kliment Ohridski" focused on data enrichment for AI.

Alongside academia, I combine research with **grant writing and R&D project management** and with **technology transfer**, including the role of co-founder/CTO of a university spin-off.

Research Interest

Semantic Web | Knowledge Graphs | Semantic Table Interpretation | Mental Health
Clinical Decision Support Systems | Disease Risk Prediction Models
Early Disease Detection Systems

481 citations | 13 h-index | 17 i10-index |

207 citations | 9 h-index |

Academic experiences



University of Milan-Bicocca
Research Assistant (Assegnista di Ricerca)

Feb 2025 - Jan 2026
Milan, Italy

Design and development of an Artificial Intelligence/Machine Learning model for creating a decision support system in the psychological/psychiatric field, SSD INF/01.

Progettazione e sviluppo di un modello di Intelligenza Artificiale/Machine Learning per la creazione di un sistema di supporto alle decisioni in campo psicologico/psichiatrico.

Department of Informatics, Systems and Communication.



University of Milan-Bicocca
Assistant Professor (RTD/A)

Jan 2022 - Jan 2025
Milan, Italy

Semantic and AI technologies for early digital intervention in psychiatric services, funded by the Italian Ministero dell'Università e della Ricerca through the European project D.M. 1062/2021 – Piano Operativo Nazionale – PON "Ricerca e Innovazione" 2014– 2020 Asse IV, azioni IV.4 "Dottorati e contratti di ricerca sulle tematiche dell'innovazione", SSD INF/01.

Tecnologie semantiche e di AI per Intervento Digitale Precoce nei Servizi Psichiatrici.

Department of Informatics, Systems and Communication.

	University of Milan-Bicocca Research Assistant (Assegnista di Ricerca)	Feb 2021 - Jan 2022	Milan, Italy
	Analysis and semantic annotation of data related to the nutritional components of food, SSD ING-INF/05. Analisi e annotazione semantica di dati relativi ai componenti nutrizionali dei cibi. <i>Department of Informatics, Systems and Communication.</i>		
	University of Milan-Bicocca Research Assistant (Assegnista di Ricerca)	Feb 2020 - Jan 2021	Milan, Italy
	Analysis and semantic annotation of data related to the nutritional components of food, SSD ING-INF/05. Analisi e annotazione semantica di dati relativi ai componenti nutrizionali dei cibi. <i>Department of Informatics, Systems and Communication.</i>		
	University of Milan-Bicocca Research Assistant (Assegnista di Ricerca)	Nov 2015 - Oct 2016	Milan, Italy
	Definition and implementation of the UniData centre's data architecture, SSD ING-INF/05. Definizione e implementazione dell'architettura dati del centro UniData. <i>Department of Informatics, Systems and Communication.</i>		
	University of Milan-Bicocca Research Assistant (Assegnista di Ricerca)	Sep 2014 - Aug 2015	Milan, Italy
	Definition of tools for the population of semantic services for public administration, SSD ING-INF/05. Definizione di strumenti per il popolamento di servizi semantici per la pubblica amministrazione. <i>Department of Informatics, Systems and Communication.</i>		
	University of Milan-Bicocca Research Assistant (Assegnista di Ricerca)	Sep 2013 - Aug 2014	Milan, Italy
	Development of software components for the efficient implementation of semantic technologies for extraction, processing, and fruition of information on the web. Access to web services via mobile channels, SSD ING-INF/05. Sviluppo di componenti software per la implementazione efficiente di tecnologie semantiche di estrazione, elaborazione, fruizione della informazione nel web. Accesso a servizi web tramite canali mobili. <i>Department of Informatics, Systems and Communication.</i>		
	University of Milan-Bicocca Research fellow	Feb 2011 - Jan 2012	Milan, Italy
	Development Methodologies for Value-Added Services in Agriculture, SSD ING-INF/09. Metodologie di sviluppo di servizi a valore aggiunto per l'agricoltura. <i>Department of Informatics, Systems and Communication.</i>		

● Foreign Research Contracts

	Sofia University "St. Kliment Ohridski" Researcher	Apr 2022 - Mar 2024	Sofia, Bulgaria
	Holder of a research contract on the topic "Building competence in data enrichment for artificial intelligence," financed by the Bulgarian Ministry of Education and Science, as part of the implementation of the national program "European Science Network." Big Data for Smart Society Institute.		
	Sofia University "St. Kliment Ohridski" Researcher	Jul 2021 - Mar 2022	Sofia, Bulgaria
	Holder of a research contract on the topic "Building competence in data enrichment for artificial intelligence," financed by the Bulgarian Ministry of Education and Science, as part of the implementation of the national program "European Science Network." Big Data for Smart Society Institute.		



Bielefeld University
Researcher

Nov 2018 - Apr 2019
✉️ Bielefeld, Germany

Research internship abroad through the Erasmus+ Traineeship program. Semantic Computing Group.

● Research and technology transfer



WhattaData srl
CTO, Co-founder

2025

✉️ Milan, Italy

Proposal for the establishment and recognition of Whattadata S.r.l. as a "Spin-off," approved by the Academic Senate on 5 March 2025.



Aton Informatica s.r.l.
Consultant

2023

✉️ Rome, Italy

I provided hands-on R&D and technical consultancy, spanning software development, data/AI analytics and advanced digital solutions, across multiple publicly funded innovation projects.



Nana Bianca/Instal srl
Consultant

Apr 2020 - May 2020

✉️ Milan, Italy

Definition of a software architecture based on LSTM algorithms for the lexicalization of RDF data.



Umbria Digitale S.c. a r.l.
Consultant

2015 - 2016

✉️ Perugia, Italy

Proposal for the establishment and recognition of Whattadata S.r.l. as a "Spin-off," approved by the Academic Senate on 5 March 2025.

● Entrepreneurial initiatives



Whattaspot srl
CEO, Co-founder

Jan 2014 - Oct 2016

✉️ Bergamo, Italy

Innovative start-up specialising in the development of cutting-edge applications for the sports industry.



NPCrew srl
CTO, Co-founder

2012 - 2014

✉️ Bergamo, Italy

Company specialising in web development, communication, and event organisation.

● Education

	PhD in Computer Science	Nov 2016 - Oct 2019
Thesis:	<i>Enabling tabular data understanding by human and machines through semantic interpretation</i>	
Int Esp.:	Bielefeld University, Germany	
Courses:	<ul style="list-style-type: none">Writing of Scientific papersBig Data TechnologiesPrivacy and processing of personal data. Technical and legal aspectsKnowledge Graphs and Semantic Data Management: Models, Techniques and ApplicationsInternet of Things: a service-oriented perspective	
Sum. Sch.:	Advances in Collective Intelligence: Crowds, Big-Data and Community Resilience – Como, Italy, 18–22 Sep 2017 2nd International Summer School on Deep Learning 2018 – Genova, Italy, 23–27 Jul 2018	
	M.Sc. in Computer Science, <i>magna cum laude</i>	Oct 2007 - Sep 2010
Thesis:	<i>Framework di supporto alla pianificazione di servizi basato su un approccio multi-paradigma</i>	
	B.Sc. in Computer Science	Oct 2002 - Oct 2007
Thesis:	<i>Progettazione e realizzazione di una applicazione web per la gestione di un indirizzario dipartimentale</i>	

● Teaching in PhD courses

	University of Milan-Bicocca	
	PhD in Computer Science	
	Introduction to Knowledge Graphs <i>20 hours</i>	Professor 2025
	PhD in Intangible Heritage in Socio-Cultural Innovation	
	Digital Futures for Intangible Heritage <i>8/4/4 hours</i>	Professor 2023 - 2025

● Teaching

	University of Milan-Bicocca	
	MD Communication Theory and Technology	
	Visual Communication and Interface Design <i>40/21 hours</i>	Professor 2019 - Present
	Visual Communication Laboratory <i>48 hours</i>	Professor 2019 - 2020
	Technologies and Applications of Distributed Systems <i>24/36/18 hours</i>	Teaching Assistant 2019 - 2020
	Service Science <i>20 hours</i>	Teaching Assistant 2016 - 2018
	Information Systems <i>16 hours</i>	Teaching Assistant 2015 - 2016
	MD Data Science	
	Data Visualisation <i>20 hours</i>	Professor 2023 - 2024
	MD Computer Science	
	Data Architecture <i>16 hours</i>	Professor 2021 - 2023
	BD Computer Science	
	Databases <i>20 hours</i>	Teaching Assistant 2021 - Present
	Distributed Systems	Teaching Assistant 2012 - 2013

	Università Cattolica del Sacro Cuore	
	MD Linguistic Computing	
	Data Structures and Database Systems <i>45 hours</i>	Professor 2023 - Present
	MD Letters and Philosophy	
	Information Management Online: Tools and Strategies <i>30 hours</i>	Professor 2025 - Present



University of Bergamo

Postgraduate School of Health Psychology

Health Engineering for Health Promotion 18 hours

Professor

2024 - Present

Teaching/Webinar

	Edu on Air Higher Education EMEA	Jun 2025
	Activities: Edu on Air: Higher Education is an online Google for Education series (Feb–May 2025) offering monthly sessions on Gemini AI, NotebookLM and Google Workspace for Education to help universities and colleges across EMEA drive student success, foster academic innovation and build secure digital learning environments.	
	AILC Lectures 2025	Jun 2025
	Activities: "Lectures on Computational Linguistics 2025", a three-day training school (Milan, 18–20 June 2025) organised by the Italian Association for Computational Linguistics with Università Cattolica del Sacro Cuore and University of Milano-Bicocca, featuring tutorials, labs and student sessions on linguistic resources, Large Language Models and neuro-symbolic AI for PhD and Master's students.	
	NODES: Nord Ovest Digitale E Sostenibile	Nov 2024
	Activities: Intervention in the modular training course Artificial Intelligence in support of AgriFood designed within Spoke 7 Secondary Agroindustry of the Innovation Ecosystem NODES Nord Ovest Digitale e Sostenibile.	
	AI2MED	Sep 2024
	Activities: Webinar "AI and Nutrition: Innovation for a Healthy and Sustainable Future" (AI2MED European project, University of Pavia, 27/09/2024), focused on the role of artificial intelligence and Large Language Models in personalised nutrition and sustainable food systems.	

Thesis supervisor

38 Computer Science @UNIMIB Bachelor's thesis	13 Computer Science @UNIMIB	62 Communication Theory and Technology@UNIMIB	4 Data science @UNIMIB	2 Linguistic Computing @UNICATT
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Awards

Awards and recognitions for scientific activity

<p>Best Demo Award Marco Cremaschi, Anisa Rula, Alessandra Siano and Flavio De Paoli <i>MantisTable: a Tool for Creating Semantic Annotations on Tabular Data</i></p> <p>Best Demo Award ✓ Extended Semantic Web Conference 2019</p>	<p>Outstanding Improvement Marco Cremaschi, Roberto Alarcón, and David Chiraguet <i>Team STI</i></p> <p>Outstanding Improvement ✓ SemTab Challenge 2019</p>	<p>CERTIFICATE OF ACHIEVEMENT This certificate is awarded to HARMONY for your outstanding achievement, securing the esteemed 3rd place in the MobiDataLab Codagon.</p> <p>3rd Place ✓ MobiDataLab Codagon 2023</p>	<p>Best Resource Paper Marco Cremaschi, Fabrizio Belotti, Jennifer O'Sullivan and Matteo Palevecchio <i>"MantisTab 2.0: A Large-Scale Dataset for Semantic Table Interpretation - Training, Testing, and Detecting Misleading"</i></p> <p>Best Resource Award ✓ International Semantic Web Conference 2025</p>
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Publications

Update date: 17 Dec 2025

Google Scholar cit: 481, h-index: 13, i10-index: 17

Scopus cit: 207, h-index: 9

Speaker

Best paper

Winner

11

Journal Papers

19

Conference Papers

5

Workshop Papers

6

Challenge Papers

1

Book Chapter

Andrea Spoto, Anna Panzeri, **Marco Cremaschi**, Davide Di Tolve, Cesare Curcio, Andrea Maurino

LLMind to Enhance Diagnostic Decision-Making in Mental Health: Synergy Between AI Language Models and Clinical Expertise

- 1 AIP Sperimentale 2025, 31° Congresso annuale (symposium talk: Menti artificiali e menti umane: l'intelligenza al confine tra psicologia e tecnologia)

Conference paper

Blerina Spahiu, **Marco Cremaschi**, Andrea Maurino, Giuseppe Vizzari

- 2 *Harnessing Large Language Models for Efficient Crowd Management in Large-Scale Events*
ECAI, 2025

Conference paper

ICORE: A DOI: [10.3233/FAIA251463](https://doi.org/10.3233/FAIA251463)

Marco Cremaschi, David Chieregato, Sara Nocco

- 3 *A Case Study for Video Game Usability Research with Fortnite Creative*
In Proceedings of Higher Education Learning Methodologies and Technologies Online, Springer Nature Switzerland, 2025

Conference paper

DOI: [10.1007/978-3-031-94002-6_21](https://doi.org/10.1007/978-3-031-94002-6_21)

Marco Cremaschi, Fabio D'Adda, Sara Nocco

- 4 *MantisTable UI: A Web Interface for Comprehensive Semantic Table Interpretation Curation and Management*
Journal of Open Research Software 13 (1), 2025

Journal paper

QUARTILES: Q1 Information Systems, Q1 Software DOI: [10.5334/jors.583](https://doi.org/10.5334/jors.583)

Marco Cremaschi, Federico Belotti, Jennifer D'Souza, Matteo Palmonari

- 5 *MammoTab 25: A Large-Scale Dataset for Semantic Table Interpretation – Training, Testing and Detecting Weaknesses*
International Semantic Web Conference, 131–148, 2025

Conference paper

★ Best paper ICORE: A DOI: [10.1007/978-3-032-09530-5_8](https://doi.org/10.1007/978-3-032-09530-5_8)

Giulia Rosemary Avis, Sara Nocco, An Qi Zhao, **Marco Cremaschi**

- 6 *Guiding AI Assisted persona generation with Hofstede's cultural dimensions: a mixed-methods evaluation*
Behaviour & Information Technology, 1–29, 2025

Journal paper

QUARTILES: Q1 Human–Computer Interaction DOI: [10.1080/0144929X.2025.2581258](https://doi.org/10.1080/0144929X.2025.2581258)

Marco Cremaschi, Davide Di Tolve, Cesare Curcio, Anna Panzeri, Andrea Spoto, Andrea Maurino

- 7 *Decoding the Mind: A RAG-LLM on ICD-11 for Decision Support in Psychology*
Expert Systems With Applications, Elsevier Ltd, 2025

Journal paper

QUARTILES: Q1 Artificial Intelligence DOI: [10.1016/j.eswa.2025.127191](https://doi.org/10.1016/j.eswa.2025.127191)

Marco Cremaschi, Fabio D'Adda, and Andrea Maurino

- 8 *StEEIm: an LLM for generating semantic annotations of tabular data*
ACM Transactions on Intelligent Systems and Technology, Association for Computing Machinery, 2025

Journal paper

QUARTILES: Q1 Artificial Intelligence, Q1 Theoretical Computer Science DOI: [10.1145/3719206](https://doi.org/10.1145/3719206)

Marco Cremaschi, Giulia Rosemary Avis, An Qi Zhao, Elia Guarneri, Anna Panzeri, Andrea Spoto

- 9 *PENGULN: A mental health application employing gamification and token economy to boost therapeutic adherence in young users*
Computers in Human Behavior Reports, Volume 17, Elsevier Ltd, 2025

Journal paper

QUARTILES: Q1 Artificial Intelligence, Q1 Computer Science Application, Q1 Human–Computer Interaction DOI: [10.1016/j.chbr.2025.100586](https://doi.org/10.1016/j.chbr.2025.100586)

Roberto Avogadro, Fabio D'Adda, **Marco Cremaschi**

- 10 *Feature/vector entity retrieval and disambiguation techniques to create a supervised and unsupervised semantic table interpretation approach*
Knowledge-Based Systems, Volume 304, Elsevier B.V., 2024

Journal paper

QUARTILES: Q1 Artificial Intelligence, Q1 Software DOI: [10.1016/j.knosys.2024.112447](https://doi.org/10.1016/j.knosys.2024.112447)

Dagmar Gromann, Elena-Simona Apostol, Christian Chiarcos, **Marco Cremaschi**, Jorge Gracia, Katerina Gkirtzou, Chaya Liebeskind, Liudmila Mockiene, Michael Rosner, Ineke Schuurman, Gilles Sérasset, Purificação Silvano, Blerina Spahiu, Ciprian-Octavian Truică, Andrius Utka and Giedre Valunaite Oleskeviciene

[Journal paper](#)

11 *Multilinguality and LLOD: a survey across linguistic description levels*
Semantic Web, Volume 15, IOS Press, 2024

QUARTILES: Q2 Computer Networks and Communications, Q2 Computer Science Applications, Q2 Information Systems **DOI:** [10.3233/SW-243591](https://doi.org/10.3233/SW-243591)

Oktie Hassanzadeh, Nora Abdelmageed, **Marco Cremaschi**, Vincenzo Cutrona, Fabio D'Adda, Vasilis Efthymiou, Benno Kruit, Elita Lobo, Nandana Mihindukulasooriya, Nhan H. Pham

[Challenge paper](#)

12 *Results of SemTab 2024*

In Proceedings of the SemTab: Semantic Web Challenge on Tabular Data to Knowledge Graph Matching (SemTab@ISWC), Volume 3889, CEUR Workshop Proceedings, 2024

[CEUR: Vol-3889](#)

Lorenzo Olearo, Fabio D'Adda, Enza Messina, **Marco Cremaschi**, Stefania Bandini, Francesca Gasparini

[Journal paper](#)

13 *Facing multidimensional poverty in older adults: an artificial intelligence approach that reveals the variable relevance*
Intelligenza Artificiale, Volume 18, IOS Press, 2024

QUARTILES: Q2 Artificial Intelligence **DOI:** [10.3233/IA-240027](https://doi.org/10.3233/IA-240027)

Giulia Rosemary Avis, Fabio D'Adda, David Chieregato, Elia Guarnieri, Maria Meliante, Andrea Primo Pierotti, **Marco Cremaschi**
A neural network for automatic handwriting extraction and recognition in psychodiagnostic questionnaires

[Conference paper](#)

14

In Proceedings of the 10th International Conference on Information and Communication Technologies for Ageing Well and e-Health (ICT4AWE), Volume 1, SciTePress, 2024

 Speaker **ICORE:** C **DOI:** [10.5220/0012587600003699](https://doi.org/10.5220/0012587600003699)

Jessica Amianto Barbato, **Marco Cremaschi**, Anisa Rula, Andrea Maurino

[Conference paper](#)

15

Toward a Human-in-the-Loop Approach to Create Training Datasets for RDF Lexicalisation

In Proceedings of the 9th Intelligent Systems Conference (IntelliSys), Lecture Notes in Networks and Systems, Volume 822, Springer, 2024

DOI: [10.1007/978-3-031-47721-8_6](https://doi.org/10.1007/978-3-031-47721-8_6)

Lorenzo Olearo, Fabio D'Adda, Vincenzina Messina, **Marco Cremaschi**, Stefania Bandini, Francesca Gasparini
An Artificial Intelligence approach to predict multidimensional poverty of older people from unlabelled data

[Workshop paper](#)

16

In Proceedings of the 12th Italian Workshop on Artificial Intelligence for an Ageing Society (AI*AS@AI*IA), CEUR Workshop Proceedings, 2023

[CEUR: Vol-3623](#)

Elia Guarnieri, **Marco Cremaschi**

[Conference paper](#)

17

The digitalisation of reinforcement learning and token economy in e-health

In Proceedings of the 5th International Conference on Higher Education Learning Methodologies and Technologies Online (HELMETO), Communications in Computer and Information Science, Volume 2076, Springer, 2023

 Speaker **ICORE:** C **DOI:** [10.1007/978-3-031-67351-1_29](https://doi.org/10.1007/978-3-031-67351-1_29)

Marco Cremaschi, Jessica Amianto Barbato, Anisa Rula, Matteo Palmonari, Rossana Actis-Grosso

[Conference paper](#)

18

What Really Matters in a Table? Insights from a User Study
In Proceedings of the 21st IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT), IEEE, 2022

 Speaker **ICORE:** B **DOI:** [10.1109/WI-IAT55865.2022.00045](https://doi.org/10.1109/WI-IAT55865.2022.00045)

Marco Cremaschi, Roberto Avogadro, David Chieregato

[Challenge paper](#)

19

s-elBat: a semantic interpretation approach for messy tables

In Proceedings of the SemTab: Semantic Web Challenge on Tabular Data to Knowledge Graph Matching (SemTab@ISWC), Volume 3320, CEUR Workshop Proceedings, 2022

 Speaker [CEUR: Vol-3320](#)

Jessica Amianto Barbato, **Marco Cremaschi**

[Workshop paper](#)

20

Bridging the gap between human-gaze data and table summarisation

In Proceedings of the 1st Workshop on Artificial Intelligence for Human-Machine Interaction (AI*HMI@AI*IA), Volume 3368, CEUR Workshop Proceedings, 2022

[CEUR: Vol-3368](#)

- Stefania Bandini, Valeria Marina Borodi, David Chieregato, **Marco Cremaschi**, Federica D'Antico, Vincenzina Messina, Marco Terraneo, Laura Terzera, Francesca Gasparini
- 21 *Artificial Intelligence facing multidimensional poverty in elderly* Workshop paper
- In Proceedings of the 11th Italian Workshop on Artificial Intelligence for an Ageing Society (AI*AS@AI*IA), Volume 3367, CEUR Workshop Proceedings, 2022
- Speaker CEUR: Vol-3367
-
- Roberto Avogadro, **Marco Cremaschi**, Fabio D'Adda, Flavio De Paoli, Matteo Palmonari
- 22 *LamAPI: a comprehensive tool for string-based entity retrieval with type-base filters* Workshop paper
- In Proceedings of the 17th International Workshop on Ontology Matching (OM@ISWC), Volume 3324, CEUR Workshop Proceedings, 2022
- Speaker CEUR: Vol-3324
-
- Mattia Marzocchi, **Marco Cremaschi**, Riccardo Pozzi, Roberto Avogadro, Matteo Palmonari
- 23 *MammoTab: a giant and comprehensive dataset for Semantic Table Interpretation* Challenge paper
- In Proceedings of the SemTab: Semantic Web Challenge on Tabular Data to Knowledge Graph Matching (SemTab@ISWC), Volume 3320, CEUR Workshop Proceedings, 2022
- Speaker CEUR: Vol-3320
-
- Roberto Avogadro, **Marco Cremaschi**
- 24 *MantisTable V: a novel and efficient approach to Semantic Table Interpretation* Challenge paper
- In Proceedings of the SemTab: Semantic Web Challenge on Tabular Data to Knowledge Graph Matching (SemTab@ISWC), Volume 3130, CEUR Workshop Proceedings, 2021
- Speaker CEUR: Vol-3103
-
- Marco Cremaschi**, Simone Saleri, Andrea Maurino
- 25 *A geometrical deep learning model for the lexicalisation of "unseen" RDF triples* Conference paper
- In Proceedings of the IEEE 23rd Int Conf on High Performance Computing & Communications; 7th Int Conf on Data Science & Systems; 19th Int Conf on Smart City; 7th Int Conf on Dependability in Sensor, Cloud & Big Data Systems & Application, IEEE, 2021
- Speaker DOI: [10.1109/HPCC-DSS-SmartCity-DependSys53884.2021.00334](https://doi.org/10.1109/HPCC-DSS-SmartCity-DependSys53884.2021.00334)
-
- Rachele De Giuseppe, Matteo Colleoni, **Marco Cremaschi**, Luca Daconto, Ilaria Di Napoli, Alberto Gallace, Lorenzo Guzzetti, Massimo Labra, Andrea Maurino, Chiara Tomasinelli, Alessandra Vincenti, Sara Zizzari, Hellas Cena
- 26 *How to preserve healthy aging through nutritional strategies: the new approach of the Food Social Network (Food NET) project* Journal paper
- Mediterranean Journal of Nutrition and Metabolism, Volume 15, SAGE Publications, 2021
- DOI: [10.3233/MNM-211500](https://doi.org/10.3233/MNM-211500)
-
- Roberto Avogadro, **Marco Cremaschi**, Ernesto Jiménez-Ruiz, Anisa Rula
- 27 *A framework for quality assessment of semantic annotations of tabular data* Conference paper
- In Proceedings of the 20th International Semantic Web Conference (ISWC), Lecture Notes in Computer Science, Volume 12922, Springer, 2021
- Speaker ICORE: A DOI: [10.1007/978-3-030-88361-4_31](https://doi.org/10.1007/978-3-030-88361-4_31)
-
- Marco Cremaschi**, Roberto Avogadro, Andrea Barazzetti, David Chieregato
- 28 *MantisTable SE: an efficient approach for the Semantic Table Interpretation* Challenge paper
- In Proceedings of SemTab: Semantic Web Challenge on Tabular Data to Knowledge Graph Matching (SemTab@ISWC), Volume 2775, CEUR Workshop Proceedings, 2020
- Speaker CEUR: Vol-2775
-
- Marco Cremaschi**, Flavio De Paoli, Anisa Rula, Blerina Spahiu
- 29 *A fully automated approach to a complete Semantic Table Interpretation* Journal paper
- Future Generation Computer Systems, Volume 112, Elsevier B.V., 2020
- QUARTILES: Q1 Computer Networks and Communications, Q1 Hardware and Architecture, Q1 Software DOI: [10.1016/j.future.2020.05.019](https://doi.org/10.1016/j.future.2020.05.019)
-
- Marco Cremaschi**, Alessandra Siano, Roberto Avogadro, Ernesto Jimenez-Ruiz, Andrea Maurino
- 30 *STILTool: A Semantic Table Interpretation evalUation Tool* Conference paper
- In Proceedings of 17th International Extended Semantic Web Conference, Volume 12124, Springer, 2020
- Speaker ICORE: B DOI: [10.1007/978-3-030-62327-2_11](https://doi.org/10.1007/978-3-030-62327-2_11)

- Marco Cremaschi, Roberto Avogadro, David Chieregato
MantisTable: an automatic approach for the Semantic Table Interpretation
In Proceedings of SemTab: Semantic Web Challenge on Tabular Data to Knowledge Graph Matching (SemTab@ISWC), Volume 2553, CEUR Workshop Proceedings, 2019 [Challenge paper](#) [CEUR: Vol-2553](#)
- Marco Cremaschi, Anisa Rula, Alessandra Siano, Flavio De Paoli
MantisTable: a tool for creating semantic annotations on tabular data
In Proceedings of the 16th Extended Semantic Web Conference (ESWC), Lecture Notes in Computer Science, Volume 11762, Springer, 2019 [Conference paper](#) [DOI: 10.1007/978-3-030-32327-1_4](#)
- Marco Cremaschi, Federico Bianchi, Andrea Maurino, Andrea Primo Pierotti
Supporting journalism by combining neural language generation and Knowledge Graphs
In Proceedings of the Sesta Conferenza Italiana di Lingistica Computazionale (Clic-it), Volume 2481, CEUR Workshop Proceedings, 2019 [Conference paper](#) [Speaker](#) [CEUR: Vol-2481](#)
- Marco Cremaschi, Anisa Rula, Alessandra Siano, Flavio De Paoli
Semantic Table Interpretation using MantisTable
In Proceedings of the 17th International Workshop on Ontology Matching (OM@ISWC), Volume 2536, CEUR Workshop Proceedings, 2019 [Workshop paper](#) [Speaker](#) [CEUR: Vol-2536](#)
- Marco Cremaschi, Flavio De Paoli
A practical approach to services composition through light semantic descriptions
In Proceedings of the 7th European Conference on Service-Oriented and Cloud Computing (ESOCC), Lecture Notes in Computer Science, Volume 11116, Springer, 2018 [Conference paper](#) [Speaker](#) [DOI: 10.1007/978-3-319-99819-0_10](#)
- Federico Bianchi, Matteo Palmonari, Marco Cremaschi, Elisabetta Fersini
Actively learning to rank semantic associations for personalized contextual exploration of knowledge graphs
In Proceedings of the 14th Extended Semantic Web Conference (ESWC), Lecture Notes in Computer Science, Volume 10249, Springer, 2017 [Conference paper](#) [DOI: 10.1007/978-3-319-58068-5_8](#)
- Marco Cremaschi, Flavio De Paoli
Toward Automatic Semantic API Descriptions to Support Services Composition
In Proceedings of Service-Oriented and Cloud Computing, Springer International Publishing, 2017 [Conference paper](#) [DOI: 10.1007/978-3-319-67262-5_12](#)
- Meherun Nesa Lucky, Marco Cremaschi, Barbara Lodigiani, Antonio Menolascina, Flavio De Paoli
Enriching API descriptions by adding API profiles through semantic annotation
In Proceedings of the 14th International Conference Service-Oriented Computing (ICSOC), Lecture Notes in Computer Science, Volume 9936, Springer, 2016 [Conference paper](#) [DOI: 10.1007/978-3-319-46295-0_55](#)
- Matteo Palmonari, Giorgio Ubaldi, Marco Cremaschi, Daniele Ciminieri, Federico Bianchi
DaCENA: serendipitous news reading with data contexts
In Proceedings of the 12th Extended Semantic Web Conference (ESWC), Lecture Notes in Computer Science, Volume 9341, Springer, 2015 [Conference paper](#) [DOI: 10.1007/978-3-319-25639-9_26](#)
- Gianluigi Viscusi, Marco Cremaschi, Carlo Batini
Service Science and scholarship: experiences from a pragmatist perspective
In Software Engineering Education for a Global E-Service Economy, Springer, 2014 [Book chapter](#) [DOI: 10.1007/978-3-319-04217-6_19](#)
- Claudio Baldassarre, Marco Cremaschi, Matteo Palmonari
Bridging the gap between citizens and local administrations with knowledge-based service bundle recommendations
In Proceedings of the 24th International Conference on Database and Expert Systems Applications (DEXA), IEEE, 2013 [Conference paper](#) [Speaker](#) [DOI: 10.1109/DEXA.2013.25](#)

Community service

Scientific responsibility in international conferences or workshops

Chair

ACM International Conference on AI in Finance (ICAF 2026)

2026

SemTab: Semantic Web Challenge on Tabular Data to Knowledge Graph Matching

(SemTab@International Semantic Web Conference 2025 – ICORE rank: A – attended)

2025

SemTab: Semantic Web Challenge on Tabular Data to Knowledge Graph Matching

2024

(SemTab@International Semantic Web Conference 2024 – ICORE rank: A – attended)

Eighth Italian Conference on Computational Linguistics (CLIC-it 2021 – attended)

2021

International Conference on Data, Information, Knowledge and Wisdom (DIKW 2021 – attended)

2021

Organiser

Tutorial on Semantic Table Interpretation

2024

(SemTab@International Semantic Web Conference 2024 – ICORE rank: A – attended)

Project Evaluator

ANR (Agence Nationale de la Recherche)

2025

Community service

Direction or participation in editorial boards of journals, publishing series, encyclopedias, and treatises of recognised prestige

Associate Editor

Journal of Intelligent & Fuzzy Systems

2024

Member of Committee

[SemTab 2019](#), [EAlot 2021](#), [DIKWN 2021](#), [ICRAIC 2021](#), [ESWC 2022](#), [ESWC 2023](#), [ProLingKNOWER 2023](#), ...

Reviewer

SoftwareX, AIMS Bioengineering, Digital Health, TIST, Soft Computing, ...

International research projects/groups

Active participation and collaboration in international research groups, with a temporal continuity of at least four years



Goblin

CA23147 – Global Network on Large-Scale, Cross-domain and Multilingual Open KG

2024 - 2028

This **COST Action** project aims to provide a large-scale, high quality, cross-domain and multilingual knowledge graph technology that is free to use, reuse, and redistribute.

Science Communication Coordinator.

Task Leader 2.4.

Member of WG 1, WG 2, WG 3, WG 4.



NexusLinguarum

CA18209 – European network for Web-centred linguistic data science

2019 - 2024

This **COST Action** project aims to promote synergies across Europe between linguists, computer scientists, terminologists, and other stakeholders in industry and society, in order to investigate and extend the area of linguistic data science.

Member of WG 2, WG 3.

● Italian research projects/groups

Active participation and collaboration in italian research groups

 University of Milan-Bicocca, INTERDEPARTMENTAL CENTRE
Best4Food 2024 - 2025

Best4food is a multidisciplinary centre dedicated to food research and innovation actions. It aims to identify the most suitable strategy to develop sustainable food systems able to support our future and the one of the next generations.

Member.

 University of Milan-Bicocca, INTERDEPARTMENTAL CENTRE
BReCHS – Bicocca Research Centre in Health Services 2024 - 2025

Member.

● Projects

 **MS4A** **Funding Agency:** Lombardia Region | Dec 2010 - Jun 2012
Mobile Services for Agrofood

The research project, sponsored by Lombardy region, aimed at the development of high value mobile services to deliver information about food via smart labels.

Activities As part of this project, I analysed service value and I cooperated to the identification and definition of requirements and functionality to be implemented in the associated application. I also performed a usability study, proposing a possible interface and defining interaction modalities.

 **SMART** **Funding Agency:** MIUR – Ministry of Education, University and Research | Feb 2011 - Feb 2014
Services & Meta-services for smART eGovernment

The project aimed at developing methodologies and tools for the design and implementation of value-added services.

Activities I was involved in the definition of a series of steps for the SMART methodology, aimed at planning, designing and producing services which were consistent with the value for the user. Moreover, during a second phase, I implemented some information tools to help Italian citizens (through user profiling) to identify useful services based upon their needs.

 **Comsocde** **Funding Agency:** EU | Oct 2013 - Sep 2015
Components Supporting The Open Data Exploitation Project

The purpose of the project was to progress the capabilities in the Open Data reuse field, by fostering better integration and quality improvement.

Activities I managed the development of components to extract, transform and load Open Data for the Open Data Node platform.

 **SPAC3** **Funding Agency:** Lombardia Region | Apr 2014 - May 2015
Servizi smart della nuova Pubblica amministrazione per la Citizen-Centricity in cloud

The purpose of the project was to streamline service processes in the Public Administration.

Activities I managed the definition of scenarios to be implemented in the platform, which provides SPAC3 services.

 **Foodnet** **Funding Agency:** Lombardia Region | Jan 2017 - Mar 2021
Food Social Sensor Network

Food NET is a Smart Cities and Communities project aimed at identifying and addressing the nutritional needs of specific consumer groups, fostering innovation in the agri-food industry through advanced infrastructures for functional foods.

Activities Project management.



ew-shopp

Supporting Event and Weather-based Data Analytics and Marketing along the Shopper Journey

Funding Agency: EU

Jan 2017 - Dec 2019

The aim of the project is to build a platform with innovative services based on advanced data analysis techniques capable to leverage the large variety and volume of data from multiple sources.

Activities Within the project I participated in the definition of algorithms for the semantic annotation of tabular data.



ARCA

Funding Agency: Lazio Region

Oct 2017 - Nov 2021

ARCA is a software system that enables semantic search and exploration over a book catalog.

Activities I contributed to this project by developing algorithms for data extraction and semantic combination, leveraging AI-based matchmaking techniques.



GoForIt

Funding Agency: MIUR – Ministry of Education, University and Research

2018 - 2020

The project consists of R&D activities aimed at identifying the special needs expressed by people with various types of disabilities, the elderly, etc., based on the ICF (International Classification of Functioning, Disability & Health) framework.

Activities In this project I contributed to the realisation of an accessible hotel booking platform and a prototype of a homeassistant interface for hospitality.



Melinda

Funding Agency: EU

Apr 2018 - Aug 2021

Mobility Ecosystem for Low-carbon and INnovative moDal shifts in the Alps

The MELINDA project promoted multimodality and modal shift in mobility behaviours for more sustainable mobility in the Alps. By providing an integrated set of mobility and behaviour data, it supports policy making and service planning.

Activities I provided support for the development of a web questionnaire for collecting information from users.



MAPS-EH

Funding Agency: MIMIT – Ministry of Business and Made in Italy

Sep 2021 - Jul 2023

Monitoraggio e Attuazione Policy di Sicurezza nell'E-Health

MAPS-EH provides comprehensive support for the automated compliance verification between recorded access events on IT resources and the security policies established by an organisation, enabling the automatic detection of potential anomalies.

Activities In this project I provided support in the analysis of solutions in the SOTA and the definition of the compliance verification algorithm.



AMPEL

Funder: Fondazione Cariplo

Nov 2021 - Oct 2023

Artificial Intelligence facing Multidimensional Poverty in Elderly

The project Artificial intelligence facing Multidimensional Poverty in Elderly (AMPEL) focuses on the use of cutting edge technologies in Artificial Intelligence (AI), Machine Learning (ML), data analysis and data visualisation to identify the risk of poverty in elderly people, relying on multidimensional indicators, learned from heterogeneous sources of information.

Activities I provided support in defining the concept of multidimensional poverty and in defining the ML algorithms.



Binrawine

Funding Agency: MIMIT – Ministry of Business and Made in Italy

Mar 2022 - Sep 2023

Blockchain, Tracking and Tracing solutions for Wine

BinTraWine, based on Blockchain technology, aims to ensure transparency, traceability, verifiability, and data certification for all producers, winemakers, distributors, consumers, and certification bodies involved in the process.

Activities In the project I was responsible for defining the architecture for managing smart contracts.



enRichMyData

Funding Agency: EU

Oct 2022 - Sep 2023

Enabling Data Enrichment Pipelines for AI-driven Business Products and Services

The project aims to provide a novel paradigm for building rich, high-quality, and valuable datasets to feed Big Data Analytics and AI applications.

Activities Within the project I participated in the definition of algorithms for the semantic annotation of tabular data.



DIPPS

Digital Intervention in Psychiatric and Psychologist Services

The project aims to enhance mental health care through innovative digital solutions, improving accessibility, efficiency, and patient outcomes.

Activities Project management.

Funding Agency: MIMIT – Ministry of Business and Made in Italy

Mar 2023 - Dec 2026



Biomatrix

Biodiverse Information Organization, Management, Analysis, Transformation and Reporting with Innovative eXperience

BIOMATRIX focuses on data acquisition, transformation, and the implementation of a dashboard for data delivery through the creation of a pipeline consisting of three main phases: acquisition, processing, and analysis.

Activities As part of this project I contributed to the analysis of the available datasets and to the data integration and visualisation dashboard which was realised.

Funding Agency: MUR – Ministry of University and Research

Sep 2024 - Nov 2025



CrowdIT

Crowd Response Optimisation With Digital-twin InTervention

CrowdIT is a Digital Twin system for the management of urban crowds, with special emphasis on anomaly detection and early warning generation.

Activities In this project I contributed to the algorithms for the route optimisation in crowd management.

Funding Agency: MUR – Ministry of University and Research

Dec 2024 - Dec 2025



APM

Automotive Predictive Maintenance

The APM project aims to develop an innovative AI and Machine Learning-based platform for predictive maintenance of corporate fleets and public transport. The goal is to reduce costs, improve efficiency, and enhance vehicle safety by anticipating failures and optimising maintenance operations.

Activities As part of this project I will contribute to the corporate fleet predictive maintenance algorithms.

Funding Agency: MIMIT – Ministry of Business and Made in Italy

Jun 2025 - Jun 2028

● Tender commissions

Member of evaluation commissions for research grants

University of Milan-Bicocca

Research grants announcement – Code 24A224

2024

Research grants announcement – Code 24A221

2024

Research grants announcement – Code 24A060

2024

Research grants announcement – Code 24A059

2024

Research grants announcement – Code 24B122

2024

Research grants announcement – Code 24B137

2024

Research grants announcement – Code 24B064 – **Scientific Project Head: Cremaschi Marco**

2024

Call for collaboration – Code 24CE249

2024

Research grants announcement – Code 22B194

2022

Research grants announcement – Code 22B178

2022

Research grants announcement – Code 22B176

2022

Il sottoscritto **Marco Cremaschi**, nato a **Chiari (BS)** il **04/10/1983**, residente in **Viale Gramsci n. 730, 20099 Sesto San Giovanni (MI)**, C.F. **CRMMRC83R04C618I**, Tel. **3664168368**, E-mail: **cremarco@gmail.com**, PEC: **marco.cremaschi@postecertifica.it**, consapevole delle sanzioni penali previste in caso di dichiarazioni mendaci e falsità in atti, ai sensi degli artt. 46, 47 e 76 del D.P.R. 28 dicembre 2000, n. 445,

DICHIARA

che le informazioni riportate nel presente curriculum vitae sono veritieri.

Ai sensi del Regolamento (UE) 2016/679 (GDPR) e del D.Lgs. 196/2003, come modificato dal D.Lgs. 101/2018, autorizzo il trattamento dei dati personali contenuti nel presente curriculum per le finalità connesse alla valutazione della candidatura e/o a eventuali rapporti di collaborazione.

Milano, 14 gennaio 2026



Marco Cremaschi