

PERSONAL INFORMATION

Claudia d'Amato



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Sex F | Date of birth 16/01/1977 | Nationality Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

December 2019 – Present

Associate Professor

Computer Science Department – University of Bari “Aldo Moro”, Bari (IT)

January 2015 – December 2019

Assistant Professor

Computer Science Department – University of Bari “Aldo Moro”, Bari (IT)

May 2007 – January 2015

Research Fellow

Computer Science Department – University of Bari “Aldo Moro”, Bari (IT)

Details on CV available at <http://www.di.uniba.it/~cdamato/>

EDUCATION AND TRAINING

2007

Ph.D in Computer Science

Computer Science Department – University of Bari “Aldo Moro”, Bari (IT) - Similarity-based Learning Methods for the Semantic Web

2003

M.Sc. in Computer Science

Computer Science Department – University of Bari “Aldo Moro”, Bari (IT) - Specialization on knowledge-based systems, 110/110 magna cum laude

PROJECTS (last 5y)

2022 - 2024

PREJUST4WOMEN: "PREdictive JUSTice for WOMEN" (Horizon Europe Seeds (europeseeds@uniba) - Competitive Call for Ateneo Project 2020) - Role: Research Unit PI

2020 - 2023

TAILOR "Network of Excellence" for trustworthy AI funded under the H2020-ICT-48-2020 (2020-2023) - Role: Participant as Network Member - Involvement: WP3.1 Explainable Malware Detection

2020 - 2023

MAD "La Metamorfosi Additiva del Design" (PNR 2014 - 2020) Fondo per lo Sviluppo e la Coesione (PON 2017) - Role: Participant

2020 - 2023

RPASinAir "Integrazione dei Sistemi Aeromobili a Pilotaggio Remoto nello spazio aereo non segregato per servizi civili innovativi" (PNR 2015 - 2020) Research projects for industrial research and experimental development (PON 2017) - Role: Participant

2020 - 2023

CLOSE "Close to the Earth" (PNR 2015 - 2020) Research projects for industrial research and experimental development (PON 2017) - Role: Participant

2019 - 2022

FIR: Future In Research, "Computer-mediated collaboration in creative projects" (Regional Project 2016-2019) - Role: Principal Investigator

Grants

Research Grant for the Annual Financing of Individual Ground Research (2018)

Project reviewer

- Czech Science Foundation – Call 2018 - Technical Sciences Area
- Agence Nationale de la Recherche (ANR) – French National Research Agency (2017)
- European Research Council (ERC) Advanced Grants (2016)
- National Fund for Scientific and Technological Development (FONDECYT) of the Chilean National Commission for Scientific and Technological Research (CONICYT) – Call 2014
- European Coordinated Research on Long-term Challenges in Information and Communication Sciences & Technologies ERA-NET (CHIST-ERA) Call 2013 – topic “Adaptive Machines in Complex Environments”

COMMUNITY SERVICE (last 5y)

General Chair	International Semantic Web Conference (ISWC 2022)
Program co-chair	International Semantic Web Conference (ISWC 2017)
Resources Track co-chair	International Semantic Web Conference (ISWC 2020)
PhD Symposium co-chair	European Semantic Web Conference (ESWC 2021)
Tutorial co-chair	European Conference on Artificial Intelligence (ECAI 2020)
Machine Learning Track co-chair	European Semantic Web Conference (ESWC 2019, ESWC 2017)
Journal Track co-chair	International Semantic Web Conference (ISWC 2019), International Web Conference (TheWeb 2018)
Chair	International Reasoning Web Summer School 2018
Senior PC member	The Web Conference (2021, 2020), ECAI 2020, IJCAI 2019
TPC member	IJCAI (2022- 2017), The Web Conference (2019 – 2017), ISWC (2020-2017), ECAI (2022 – 2017), AAAI 2018, ECML (2019 – 2017), ESWC (2022 – 2017), IEEE ICSC (2022 – 2017), ACM SAC (2022 – 2017), IJCNN (2020, 2018, 2017), WI (2021, 2018), K-CAP (2021 – 2017), EKAW (2020 – 2016), JURIX (2020 – 2018), IEEE AIKE (2021 – 2019), ICAIL (2021 – 2019), ISMIS (2018 – 2017), DS (2020, 2019), IEEE ICET 2018, WebSci 2017

EDITORIAL ACTIVITY

2017– Present	<p>Co-Editor of n. 11 Volumes of International Lecture Notes in Computer Science collections, Springer.</p> <p>Co-Editor of n. 29 Volumes of International Workshop Proceedings edited by CEUR (CEUR-WS.org). Detaild available on DBLP https://dblp.org/pid/56/6773.html</p> <p>Editorial board members of the following international journals:</p> <ul style="list-style-type: none"> • Semantic Web Journal (SWJ) - (since 2009) • International Journal of Web Semantics (JWS) - (since 2014) • Frontiers in Big Data and Artificial Intelligence - Machine Learning and Artificial Intelligence (since 2018) • Int. J. on Semantic Web and Information Systems (IJSWIS) - (since 2014) • Int. Journal On Advances in Intelligent Systems - (since 2012) • Int. Journal of Intelligent Systems and Applications (IJISA) - (since 2009)
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PHD SUPERVISION

- 2017 - Present
- Member of the evaluation committee for the final defense of the PhD. Thesis titled "Matching and mining in knowledge graphs of the Web of data Applications in pharmacogenomics" (supervisor: Dr. Adrien Coulet, Prof. Amedeo Napoli) of Dr. Pierre Monnin at the Laboratoire Lorrain de Recherche en Informatique et ses Applications, Vienna Austria held on 16 December 2020 (evaluation elapsed 28-09-2020 – 04-12-2020)
 - President of the evaluation committee for the final defense of the PhD. Thesis in Informatics and Telecommunications titled "Semantic Image Interpretation: Integration of Numerical Data and Logical Knowledge for Cognitive Vision" (supervisor: Dr. Luciano Serafini, Fondazione Bruno Kessler, Trento) of Dr. Ivan Donadello at University of Trento, held on 18 April 2018
 - Member of the evaluation committee for the final defense of the PhD. Thesis titled "Complementary Methods for the Enrichment of Linked Data" (supervisor: Prof. Dr. Axel Polleres) of Dr. Stefan BISCHOF at the Technische Universität Wien, Vienna Austria held on 21 November 2017 (evaluation elapsed 19-10-2017 – 21-11-2017)
 - Member of Evaluation Committee of the the PhD Programme in Computer Science and Mathematics at the University of Bari (since 18/05/2017)
 - Member of the evaluation committee for the progress of:
 - Ali Ballout, Phd Student of the PhD Programme at the Université Cote D'Azur. Thesis entitled "*Axiom Learning for Axiom Discovery*". (14/06/2021 – Present)
 - Luis Felipe Vargas Rojas, Phd Student of the PhD Programme at the interface of biology and computer science entitled "*Developing an ontological framework for facilitating the exploitation and re-use of phenomics data based on a formalization of numerical relationships*". (06/07/2021 – Present)
 - Dr. Emanuele Pio Barracchia, Phd Student (cycle XXXIII) of the PhD Programme in Computer Science and Mathematics at the University of Bari (CV computer Science) (2018 – 2021)
 - Dr. Andrea Iovine, Phd Student (cycle XXXIV) of the PhD Programme in Computer Science and Mathematics at the University of Bari (CV computer Science) (2017 -2020)

TEACHING

- 2017 - Present
- II Level Masters in "Data Science - Methodologies, analysis, design, solutions", University of Bari, course on Semantic Web and Linked Open Data (21 hours), a.a. 2019/2020
- School of Specialization in "Technology and Pathology of Poultry, Rabbit and Game Species", University of Bari, course:
- "Informatics" on methodologies for Designing Relational Databases (5 hours), a.a. 2019/2020
 - "Informatics" on methodologies for Machine Learning experiments (5 hours), a.a. 2021/2022
- Master Degree in Computer Science, course on
- Machine Learning, a.a. 2021/2022, a.a. 2020/2021
 - Semantic Web Technologies a.a. 2019/2020
- Master Degree in Data Science, course on Semantic Web and Linked Open Data, a.a. 2021/2022
- Bachelor Degree in Informatics, course on Data Bases, 2021/2022, a.a. 2020/2021, a.a. 2019/2020, a.a. 2018/2019, a.a. 2017/2018

2017 - Present

International Teaching for PhD students

- "Machine Learning, Embeddings for Large Knowledge Graphs" at the International Semantic Web Research summer School (ISWS'20) – Face to face Teaching: 1,5 hour; Support for Reach Project and Mini-project: 13 hours
- "Machine Learning, Embeddings for Large Knowledge Graphs" at the International Semantic Web Research summer School (ISWS'19) – Face to face Teaching: 1,5 hour; Support for Reach Project and Mini-project: 13 hours
- "Machine Learning, Embeddings for Large Knowledge Graphs" at the International Semantic Web Research summer School (ISWS'18) – Face to face Teaching: 1,5 hour; Support for Reach Project and Mini-project: 13 hours
- "Mining the Semantic Web: the Knowledge Discovery Process in the SW" at the Winter School on Extraction and Knowledge Management (e-EGC'17) – Face to face Teaching: 2 hours;

Teaching for the PhD Programme Computer Science and Mathematics at the University of Bari

- XXXV Cycle: "Machine Learning and the Semantic Web" (2 cfu) (2020)
- XXXIII Cycle: "Machine Learning and the Semantic Web" (3 cfu) (2018)

INSTITUTIONAL RESPONSIBILITIES

- 2022 - Present Member of the Department Working Group: engagement of the Department with Public Organizations and Industries (08/03/2022 - Present)
- 2020 - Present Member of Computer Science Department Council managing foreign students applications (since 20/12/2020)
- 2019 - Present Delegate of the Director of the Computer Science Department for the leanig of potential new freshmen (since 20/03/2019 - D.D. n. 28 of 20/03/2019)
- 2018 - Present
- Elected member in the Computer Science Department Council as representative of Assistant Professors (11/12/2018 – 20/12/2019, role terminated for have being appointed as Associate Professor)
 - Guarantor for the Bachelor Degree in "Informatics", Computer Science Department – University of Bari "Aldo Moro" (Since 01/02/2016)

INVITED TALKS (last 5y)

- 2017 - Present
- Keynotes at International Conferences
- 1 December 2021 - Machine Learning for the Semantic Web: Lessons Learnt and Next Envisioned Challenges - Invited Talk at [GDR IA Plenary Days 2021](#)
 - 2 September 2021 - [Is it Really the Time to Give Up With Semantics?](#) - Keynote Talk at [Prolog 2021: Combining Probability and Logic](#)
 - 15 November 2017 - Ontology Mining by exploiting Machine Learning for Semantic Data Management - Keynote Talk at the [BDA 2017](#)
 - 7 October 2017 - [A Machine Learning Perspective for Ontology Mining](#) - Keynote Talk at [ESSENCE 2017](#) - International Conference on Computational Approaches to Diversity in Interaction and Meaning
 - 26 January 2017 - [Machine Learning for the Semantic Web: filling the gaps in Ontology Mining](#) - Keynote Talk at [EGC'17](#)
- Keynotes at International Workshops
- 21 September 2021 - [Empowering Knowledge Bases: a Machine Learning Perspective](#) - Keynote Speaker at the 34th International Workshop on Description Logics [DL 2021](#)
 - 6 July 2021 - [Machine Learning, Reasoning and Knowledge Graphs: a perspective on the usefulness of their interplay](#) - Keynote Speaker at the International Workshop on Reasoning on Complex and Evolving Data [ROCED 2021](#)
- Dagstuhl Seminars
- 9 September 2018 - Logic and learning: Can we provide Explanations in the current Knowledge Lake? - Dagstuhl Seminar (18371): "[Knowledge Graphs: New Directions for Knowledge Representation on the Semantic Web](#)" - Dagstuhl Schloss
- Invited Participations
- 16 - 17 September 2019 - Invited Participant and Speaker for the 2019 invitation only [STI2 Semantic Summit](#)
 - 4 - 5 September 2017 - Invited Participant and Speaker for the 2017 invitation-only [STI International Summit 2017](#), Heraklion, Creta

ADDITIONAL INFORMATION

- April, 29, 2021 – Presente Habilitation for the functions of Full Professor - Scientific Sector "01/B1 - Informatics"
- April, 14, 2021 – Present Habilitation for the functions of Full Professor - Scientific Sector "09/H1 - Information Processing Systems"

Invited Research Stays (Salary and travel costs payed by the hosting universities)

- **January - March 2015:** *invited researcher* at INRIA - Research Center of Sophia-Antipolis (France) - Wimmics research team, working with Prof. Fabien Gandon (leader of the research team) and Prof. Andrea G. B. Tettamanzi.
- **October 2013:** *invited researcher* at University of Poznan (Poland) - Laboratory of Operational Research and Artificial Intelligence, Institute of Computing Science working with Dr. Agnieszka Lawrinowicz
- **March - April 2013:** *invited researcher* at the University of Koblenz-Landau (Germany) working with Prof. Steffen Staab, head of the Institute of Web Science and Technologies (WeST)
- **September - October 2012:** *invited researcher* at University of Oxford - Department of Computer Science for working with Prof. Thomas Lukasiewicz
- **March - May 2012:** *invited researcher* at Fondazione Bruno Kessler (FBK) research organization (Trento), Data & Knowledge Management (DKM) unit working with Dr. Luciano Serafini (head of the unit) and Dr. Volha Bryl
- **June 2011:** *invited researcher* at University of Poznan (Poland) - Laboratory of Operational Research and Artificial Intelligence, Institute of Computing Science working with Dr. Agnieszka Lawrinowicz
- **February - April 2008:** *invited researcher* at the University of Koblenz-Landau (Germany) working with Prof. Steffen Staab, head of the Institute of Web Science and Technologies (WeST)
- **February - May 2007:** *invited researcher* at the University of Koblenz-Landau (Germany) working with Prof. Steffen Staab, head of WeST- Institute of Web Science and Tech.
- **January - June 2006:** *visiting researcher* at the University of Koblenz-Landau (Germany) working with Prof. Steffen Staab, head of WeST- Institute of Web Science and Technologies

Member of the AI*IA Scientific Board Member for the assignment of the award for the best 2013 Italian Master Thesis in Artificial Intelligence (AI*IA awards 2013)

PUBLICATIONS

Total number of publications in peer-review journals: 23
Total Impact Factor (IF): 64,994 (average IF/paper), 2,826
On January 30th, 2022: Total number of citations: 1291 (Scopus); 2563 (Google Scholar)
H index: 18 (source Scopus); 25 (source Google Scholar)

Publications
best and most relevant
in the last 10 years

1. Aidan Hogan, Eva Blomqvist, Michael Cochez, Claudia d'Amato, Gerard de Melo, Claudio Gutiérrez, Sabrina Kirrane, José Emilio Labra Gayo, Roberto Navigli, Sebastian Neumaier, Axel-Cyrille Ngonga Ngomo, Axel Polleres, Sabbir M. Rashid, Anisa Rula, Lukas Schmelzeisen, Juan F. Sequeda, Steffen Staab, Antoine Zimmermann: Knowledge Graphs. ACM Comput. Surv. 54(4): 71:1-71:37 (2021)
2. Giuseppe Rizzo, Claudia d'Amato, Nicola Fanizzi: An unsupervised approach to disjointness learning based on terminological cluster trees. Semantic Web 12(3): 423-447 (2021)
3. Claudia d'Amato, Nicola Flavio Quatraro, Nicola Fanizzi: Injecting Background Knowledge into Embedding Models for Predictive Tasks on Knowledge Graphs. ESWC 2021: 441-457
4. Giuseppe Rizzo, Nicola Fanizzi, Claudia d'Amato: Class expression induction as concept space exploration: From DL-Foil to DL-Focl. Future Gener. Comput. Syst. 108: 256-272 (2020)
5. Claudia d'Amato: Machine Learning for the Semantic Web: Lessons learnt and next research directions. Semantic Web 11(1): 195-203 (2020)
6. Giuseppe Rizzo, Nicola Fanizzi, Claudia d'Amato, Floriana Esposito: Approximate classification with web ontologies through evidential terminological trees and forests. Int. J. Approx. Reason. 92: 340-362 (2018)
7. Pasquale Minervini, Volker Tresp, Claudia d'Amato, Nicola Fanizzi: Adaptive Knowledge Propagation in Web Ontologies. ACM Trans. Web 12(1): 2:1-2:28 (2018)
8. Pasquale Minervini, Claudia d'Amato, Nicola Fanizzi: Efficient energy-based embedding models for link prediction in knowledge graphs. J. Intell. Inf. Syst. 47(1): 91-109 (2016)
9. Pasquale Minervini, Claudia d'Amato, Nicola Fanizzi, Volker Tresp: Discovering Similarity and Dissimilarity Relations for Knowledge Propagation in Web Ontologies. J. Data Semant. 5(4): 229-248 (2016)
10. C. Maria Keet, Agnieszka Lawrinowicz, Claudia d'Amato, Alexandros Kalousis, Phong Nguyen, Raúl Palma, Robert Stevens, Melanie Hilario: The Data Mining Optimization Ontology. J. Web Semant. 32: 43-53 (2015)

Bari, 15/04/2022

