FABIO AURELIO D'ASARO

PERSONAL INFORMATION

birthplace	Palermo (Italy)
email	**fabioaurelio.dasaro@unisalento.it** (institutional, main) fabioaurelio.dasaro@univr.it (institutional) fabio.d'asaro.14@ucl.ac.uk (institutional) fdasaro@gmail.com (personal)
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I am a researcher in Logic (PHIL-02/A) working at the interface of formal epistemology and AI, probabilistic and temporal reasoning, argumentation, and logic programming (ASP/ILASP) with teaching and supervision spanning Logic & Philosophy of Science, AI, Theoretical, Applied Computer Science, Epistemology of Big Data and Logic Programming.

LATEST POSITION

2025-present Postdoctoral Researcher, University of Salento

I am currently a postdoctoral researcher at the University of Salento in the Department of Human Studies (SSD PHIL-02/A). I am working in the context of Project FAIR–Future AI Research (PE00000013) under the NRRP MUR program funded by NextGenerationEU, Spoke 6 ("Symbiotic AI"), PI: Paolo Baldi.

EDUCATION

2014-2019 PhD in Artificial Intelligence, University College London

My PhD thesis explored how to model uncertainty (Probability Theory, in particular) and knowledge-producing actions in a popular narrative-based framework for Reasoning About Actions called the Event Calculus. Excerpts of my PhD thesis were published in top Logic and AI journals and conferences, including *Artificial Intelligence* (AIJ) and the International Conference on *Logic Programming and Nonmonotonic Reasoning* (LPNMR).

Thesis: "Probabilistic Epistemic Reasoning About Actions", written under the supervision of Rob Miller, Antonis Bikakis and Luke Dickens.

2013-2014 MSc in Pure Mathematics and Mathematical Logic, University of Manchester

Final grade: **Distinction** (equivalent to **110/110 cum laude** in the Italian grading system).

Dissertation: "Analogical Reasoning in Unary Inductive Logic", written under the supervision of Jeff B. Paris

2006-2011 BSc Computer Science, University of Palermo

Final grade: **110/110 cum laude**).

Dissertation: "La Tesi di Church-Turing e il suo rapporto con alcuni nuovi modelli di calcolo" (en: "The Church-Turing Thesis and its relation with some new computation models"), written under the supervision of Settimo Termini

TEACHING EXPERIENCE

From my first appointments as a BSc student to the present, I have taught every year without interruption across Philosophy, Information Studies, and Computer/Data Science programs. I design and deliver courses for diverse cohorts along two axes–*expertise* (from non-specialists to experts) and *academic level* (pre-BSc through PhD and postdoc). At the University of Verona, as assistant professor, I have typically delivered **100+ lecture hours per year** on average. Student evaluations have been consistently strong, with my courses frequently among the highest-rated in their cohorts; verification is available via the references below. My teaching spans Logic, Philosophy of Science, Logic Programming, Computer Programming, Applied and Theoretical Computer Science. I also place a strong emphasis on supervision and mentoring, with consistently excellent outcomes across theses and projects, evidenced by external recognition, publications, and open research outputs.

2022–present Lecturer, University of Verona

- Logic and Philosophy of Science, SSD M-FIL/02, BA in Philosophy.
- Epistemology of Big Data, SSD M-FIL/02, MSc in Data Analytics.
- Computational Epistemology, SSD M-FIL/02. MSc in Artificial Intelligence.
- Logic and Philosophy of Science in Physiotherapy, SSD M-FIL/02, BSc in Physiotherapy.
- Laboratory of Computer Science and Multimedia Technologies, SSD INF/01, BA in Philosophy.
- Laboratory of Artificial Intelligence and Neuroscience, PhD in Human Sciences.

2025 Lecturer, 8th Winter School in Linguistics (University of Verona/Free University of Bolzano)

Delivered a 1.5-hour lecture: *Introduction to Machine Learning* (overview of learning paradigms and evaluation for linguistics audiences).

2023, 2025 Lecturer, 3rd and 4th Summer School on Bayesian Statistical Analysis (Verona)

In 2023 and 2025 I Delivered a 3-hour lecture on *Introduction to Bayesian Probability* (priors, likelihood, posterior updating, Bayes factors).

2023 Lecturer, University of Trento, IECS Doctoral School

I taught an assessed course on Logic Programming and Explainable AI for students of the IECS Doctoral Programme. The course was a 20-hours intensive course for PhD students, held at the University of Trento from September 4 to September 8, 2023.

2021 Guest lecturer, University of Milan

I gave Computer Science lectures for MSc and PhD students of the Department of Philosophy at the University of Milan, namely:

- *April 2021* - Guest lecture overviewing topics and trends in Machine Learning. The lecture was given in the context of the course Probability Logic taught by H. Hosni, for students of the MSc in Philosophy (Reasoning, Analysis and Modelling track).
- *January 2021* - Lecturer of the course Topics in Logic, Probability and Computation, for students of the PhD in Mind, Brain and Reasoning. Jointly taught with H. Hosni and P. Baldi.

Reference: Hykel Hosni · hykel.hosni@unimi.it

2015–2023 **Teaching Assistant, University College London**

I worked as a Lecturer and Lab Demonstrator for many undergraduate and postgraduate courses offered by the UCL Department of Information Studies, namely:

- *2015–2023*: INST0074 (formerly INST0043) Machine Reasoning for Artificial Intelligence (formerly Knowledge Representation and Semantic Technologies)
- *2018–2020*: INST0060 Foundations of Machine Learning and Data Science
- *2017–2020*: INST0019 Introduction to Programming and Scripting
- *2018–2019*: INST0029 Server Programming and Structured Data
- *2015–2019*: INST0004 Programming 2

In particular, I have been in charge of lecturing the module on **Formal Argumentation**, part of INST0074 "Machine Reasoning for Artificial Intelligence", during the academic year 2022/23.

Reference: Rob Miller · rsm@ucl.ac.uk

2013–2014 **Teaching Assistant, University of Palermo**

I worked as a Lab Demonstrator in the Theoretical Computer Science course offered by the Department of Mathematics and Computer Science.

Reference: Prof. Settimo Termini · settimo.termini@unipa.it

Supervision & Mentoring · Selected Outcomes

From BA to PhD level, several supervised projects have produced peer-reviewed outputs, datasets and public recognition:

- **Zlatina Mileva** (Imperial College London) *Outstanding Project Award* and selection for the *Project Showcase Day*; preprint: A Unifying Framework for Learning Argumentation Semantics. Links: Project Showcase Day.
- **Daniele Fossemò** & **Marco D'Aviero** (Univ. L'Aquila) UG projects on ILP for XAI leading to an open dataset and a workshop paper. Links: Zenodo dataset (project page), BEWARE-22 proceedings.
- **Veronica Zenatelli** (Univ. Verona) BA thesis on LLMs & the Frame Problem; released a benchmark GitHub dataset for reproducible evaluation.
- **Sara Sangiovanni** (Univ. Napoli Federico II) HRI pipeline for automated test administration; published in ICSR 2020.
- **Gennaro Daniele Acciaro** (Univ. Napoli Federico II) Intent recognition with ProbLog/Event Calculus; published in WOA 2021.
- **Luca Raggioli** (Univ. Napoli Federico II) Deep Reinforcement Learning for human-aware approaching; published in the *International Journal of Social Robotics* (2023).
- **Francesco Pedrazzoli** (Univ. Verona, PhD) Ethics of AI/Recommender systems; poster at BRIO research meeting and paper at CEPE-23. Links: BRIO meeting, poster, CEPE-23, CEPE-23 proceedings.

WORK EXPERIENCE

2022-2025 **Assistant Professor, University of Verona (Verona, Italy)**

I was Assistant Professor (RTD-A) at the University of Verona, where I taught and researched on Uncertain and Epistemic Reasoning, Temporal and Probabilistic Logics, Logic Programming, Reasoning about Actions and Change, Bounded Reasoning, Formal Argumentation, and their applications to Artificial Intelligence and Explainable AI. My position was partially funded by PON R&I 20142020, DM 1062/2021 (Action IV.4); UniVR selection code 2021rtdaPON03; CUP B39J21025840001; company secondment at REVO SPAC (12 months).

2020-2021 **Postdoctoral Researcher, University of Milan (Milan, Italy)**

During my period as a post-doctoral fellow in the Logic Group at the University of Milan, I worked on uncertain, depth-bounded and epistemic logics.

2019-2020 **Postdoctoral Researcher, CRDC Tecnologie (Naples, Italy)**

I worked on the AVATEA Project, which aims to develop an AI system to support the rehabilitation process of children with neuro-motor disorders. Furthermore, I carried out research on explainable AI systems for robotics and preference learning.

2013-2014 **Research Assistant, University of Palermo**

From January 2013 to January 2014 I worked under the supervision of prof. Settimo Termini and Marco Elio Tabacchi as a fully funded graduate research assistant in the NEVERLOST Project (PO-FESR 2007-2013) at the University of Palermo. We developed and implemented an algorithm to find the (sub)optimal displacement of antennas in arbitrarily shaped 2D spaces, using techniques from the field of soft-computing (mainly Fuzzy Logic and Genetic Algorithms). We also worked on a series of side projects including the development of a "serious game" (named "Delivering Freight, ASAP!", click here for a related publication and here for the website) for teaching concepts related to Theoretical Computer Science, and published a series of papers on the foundations of Fuzzy Logic and Computer Science. During the same period, I also worked as Teaching Assistant.

Reference: Marco Elio Tabacchi · marcoelio.tabacchi@unipa.it

Jun-Sep 2011 **Undergraduate Intern, ICAR CNR Palermo**

During my internship at ICAR CNR I collaborated on the IMPULSO project, developing a path visualization tool using Google Maps APIs.

Reference: Massimo Cossentino · massimo.cossentino@icar.cnr.it

SELECTED PUBLICATIONS

This selection charts my ongoing research on logical and probabilistic foundations of reasoning and explanation in AI, developed in dialogue with contemporary epistemology of science and data. It includes first-author advances (typed probabilistic natural deduction; epistemic probabilistic Event Calculus; bounded and assumption-based reasoning) published in top Q1 journals (*JAIR*, *Journal of Logic and Computation*, *Artificial Intelligence*, *IJAR*, *IJSR*, *TPLP*) alongside the A*-ranked conference *KR*. Notably, some of these research lines laid methodological ground later consolidated in the project BRIO line on transparency, bias and risk, and contributed to the creation of MIRAI, the University of Milan Department of Philosophy's first spin-off for responsible-AI assessment–an uncommon case in Italy of a philosophy-department start-up focused on AI trustworthiness. Older publications (e.g., in *Informatik-Spektrum*) demonstrate my early attitude to reasearch, having been among my most cited research.

2025 A Graphical Formalism for Reasoning about Substitution in Resource Transforming Procedures

A. Bikakis, **F. A. D'Asaro**, A. Diallo, L. Dickens, T. Hunter, R. Miller, in: *Journal of Artificial Intelligence Research*, https://doi.org/10.1613/jair.1.18606.

2025 Checking trustworthiness of probabilistic computations in a typed natural deduction system

F. A. D'Asaro, F. Genco, G. Primiero, in: *Journal of Logic and Computation*, https://doi.org/10.1093/logcom/exaf003.

2025 Non-monotonic Bounded Reasoners

P. Baldi, **F. A. D'Asaro**, in: *The Reasoner* 19(1), https://doi.org/10.54103/1757-0522/27548.

2025 Weighted Assumption Based Argumentation to reason about ethical principles and actions

P. Baldi, **F. A. D'Asaro**, A. Dyoub, F. A. Lisi, in: *Proceedings of CILC 2025*.

2024 Educare all'IA. La sfida didattica dell'Intelligenza Artificiale: ChatGPT e Gemini

M. Badino, **F. A. D'Asaro**, F. Pedrazzoli, *Sanoma Italia* ed., ISBN 9791256030019.

2024 An Answer Set Programming-based implementation of Epistemic Probabilistic Event Calculus

F. A. D'Asaro, A. Bikakis, L. Dickens, R. Miller, in: *International Journal of Approximate Reasoning*, https://doi.org/10.1016/j.ijar.2023.109101.

2023 An Application of a Runtime Epistemic Probabilistic Event Calculus to Decision-making in e-Health Systems

F. A. D'Asaro, L. Raggioli, S. Malek, M. Grazioso, S. Rossi, in: *Theory and Practice of Logic Programming*, https://doi.org/10.1017/S1471068422000382.

2023 Deep reinforcement learning for robotic approaching behavior influenced by user activity and disengagement

L. Raggioli, **F. A. D'Asaro**, S. Rossi, in: *International Journal of Social Robotics*, https://doi.org/10.1007/s12369-023-01044-7.

2021 Introducing k-lingo: a k-depth bounded version of ASP system *clingo*

F. A. D'Asaro, P. Baldi, G. Primiero, in: *Proceedings of KR 2021*, https://doi.org/10.24963/kr.2021/65.

2021 Modelling Accuracy and Trustworthiness of Explaining Agents

A. Termine, G. Primiero, **F. A. D'Asaro**, in: *Proceedings of LORI 2021*, https://doi.org/10.1007/978-3-030-88708-7_19.

2020 Probabilistic Reasoning About Epistemic Action Narratives

F. A. D'Asaro, A. Bikakis, L. Dickens, R. Miller, in: *Artificial Intelligence* 287 (2020), https://doi.org/10.1016/j.artint.2020.103352.

2020 Towards an Inductive Logic Programming approach for explaining black-box preference learning systems

F. A. D'Asaro, M. Spezialetti, L. Raggioli, S. Rossi, in: *Proceedings of KR 2020*, https://10.24963/kr.2020/88.

EXTENDED LIST OF PUBLICATIONS

2025 A Translation of Probabilistic Event Calculus into Markov Decision Processes *(accepted, in press)*

L. Xu, L. Dickens, **F. A. D'Asaro**, to appear in: Proceedings of TIME 2025.

2025 A Graphical Formalism for Reasoning about Substitution in Resource Transforming Procedures

A. Bikakis, **F. A. D'Asaro**, A. Diallo, L. Dickens, T. Hunter, R. Miller, in: Journal of Artificial Intelligence Research, https://doi.org/10.1613/jair.1.18606.

2025 Weighted Assumption Based Argumentation to reason about ethical principles and actions

P. Baldi, **F. A. D'Asaro**, A. Dyoub, F. A. Lisi, in: Proceedings of CILC 2025.

2025 Non-monotonic Bounded Reasoners

P. Baldi, **F. A. D'Asaro**, in: The Reasoner 19(1), https://doi.org/10.54103/1757-0522/27548.

2025 Checking trustworthiness of probabilistic computations in a typed natural deduction system

F. A. D'Asaro, F. Genco, G. Primiero, in: Journal of Logic and Computation, https://doi.org/10.1093/logcom/exaf003.

2024 How can we conceive replicability with AI-mediated experimental conditions? A position talk.

A. Aquino, **F. A. D'Asaro**, M. Lezcano, V. Iacovella, M. Scandola, M. Vezzoli, in: Atti del Congresso AIP Sperimentale 2024.

2024 Educare all'IA. La sfida didattica dell'Intelligenza Artificiale: ChatGPT e Gemini

M. Badino, **F. A. D'Asaro**, F. Pedrazzoli, Sanoma Italia SPA, ISBN 9791256030019.

2024 An Answer Set Programming-based implementation of Epistemic Probabilistic Event Calculus

F. A. D'Asaro, A. Bikakis, L. Dickens, R. Miller, in: International Journal of Approximate Reasoning, pp. 1-31, https://doi.org/10.1016/j.ijar.2023.109101.

2023 Deep Reinforcement Learning for Robotic Approaching Behavior Influenced by User Activity and Disengagement

L. Raggioli, **F. A. D'Asaro**, S. Rossi, in: International Journal of Social Robotics, pp. 1-13, https://doi.org/10.1007/s12369-023-01044-7.

2023 An Application of a Runtime Epistemic Probabilistic Event Calculus to Decision-making in e-Health Systems

F. A. D'Asaro, L. Raggioli, S. Malek, M. Grazioso, S. Rossi, in: Theory and Practice of Logic Programming, pp. 1-24, https://doi.org/10.1017/S1471068422000382.

2023 A Unifying Framework for Learning Argumentation Semantics

Z. Mileva, A. Bikakis, **F. A. D'Asaro**, M. Law, A. Russo, arXiv preprint arXiv:2310.12309, 2023.

2023 BRIOxAlkemy: A Bias detecting tool

G. Coraglia, **F. A. D'Asaro**, F. Genco, D. Giannuzzi, D. Posillipo, G. Primiero, C. Quaggio, in: Proceedings of BEWARE-23 (AIxIA 2023).

2023 Advancing the Boundaries of Formal Argumentation: Reflections on the AI^3 Special Issue

M. D'Agostino, **F. A. D'Asaro**, C. Larese, in: Journal of Applied Logics.

2023 How do Decision Support Systems Nudge?

F. Pedrazzoli, **F. A. D'Asaro**, M. Badino, in: Proceedings of CEPE 2023.

2022 Using Inductive Logic Programming to globally approximate Neural Networks for preference learning: challenges and preliminary results

D. Fossemò, F. Mignosi, L. Raggioli, M. Spezialetti, **F. A. D'Asaro**, in: Proceedings of BEWARE-22 (AIxIA 2022).

2022 Proof-checking bias in labeling methods

G. Primiero, **F. A. D'Asaro**, in: Proceedings of BEWARE-22 (AIxIA 2022).

2022 Explainable artificial intelligence models and methods in finance and healthcare

B. S. Caffo, **F. A. D'Asaro**, A. D'Avila Garcez, Emanuela Raffinetti, in: Frontiers in Artificial Intelligence, https://doi.org/10.3389/frai.2022.970246.

2021 Modelling Accuracy and Trustworthiness of Explaining Agents

A. Termine, G. Primiero, **F. A. D'Asaro**, in: Proceedings of LORI 2021.

2021 Introducing k-lingo: a k-depth bounded version of ASP system clingo

F. A. D'Asaro, P. Baldi, G. Primiero, in: Proceedings of KR 2021.

2021 Probabilistic Typed Natural Deduction for Trustworthy Computations

F. A. D'Asaro, G. Primiero, in: Proceedings of the TRUST 2021 Workshop at AAMAS 2021.

2021 Predicting humans: a sensor-based architecture for real time Intent Recognition using ProbLog

G. D. Acciaro, **F. A. D'Asaro**, S. Rossi, in: Proceedings of WOA 21.

2020 Probabilistic Reasoning About Epistemic Action Narratives

F. A. D'Asaro, A. Bikakis, L. Dickens, R. Miller, in: Artificial Intelligence (AIJ), Volume 287, 2020, https://doi.org/10.1016/j.artint.2020.103352.

2020 Administrating Cognitive Tests Through HRI: an Application of an Automatic Scoring System Through Visual Analysis

S. Sangiovanni, M. Spezialetti, **F. A. D'Asaro**, G. Maggi, S. Rossi, in: Proceedings of ICSR 2020.

2020 Towards an Inductive Logic Programming approach for explaining black-box preference learning systems

F. A. D'Asaro, M. Spezialetti, L. Raggioli, S. Rossi, in: Proceedings of KR 2020.

2019 Towards a Logic-Based Approach for Multi-Modal Fusion and Decision Making during Motor Rehabilitation Sessions

F. A. D'Asaro, A. Origlia, S. Rossi, in: Proceedings of WOA 19.

2017 Computational Intelligence and Citizen Communication in the Smart City

F. A. D'Asaro, M. A. Di Gangi, V. Perticone, M. E. Tabacchi, in: Informatik-Spektrum, November 2017, Volume 40, Issue 1, pp. 25–34.

2017 Foundations for a Probabilistic Event Calculus

F. A. D'Asaro, A. Bikakis, L. Dickens, R. Miller, in: Proceedings of LPNMR 2017, pp. 57–63.

2016 A Note on Carnap's Continuum and the Weak State Description Analogy Principle

F. A. D'Asaro, J. B. Paris, *unpublished*.

2015 Agents Displacement in Arbitrary Geometrical Spaces - An Evolutionary Computation based Approach

F. D'Aleo, **F. A. D'Asaro**, V. Perticone, G. Rizzo, M. E. Tabacchi, in: Proceedings of ICAART 2015, pp. 198–202.

2014 L'obiezione di una Lady ed il computer che vince ai telequiz; Come la flessibilità ha consentito all'Intelligenza Artificiale di superare un limite immaginario

F. A. D'Asaro, V. Perticone, M. E. Tabacchi, in: flessibilMENTE, Un modello sistemico di approccio al tema della flessibilità, Pensa Multimedia (ed.), 2014, pp. 379–398.

2013 Reflections on Technology and Human Sciences: rediscovering a common thread through the analysis of a few epistemological features of fuzziness

F. A. D'Asaro, V. Perticone, M. E. Tabacchi, S. Termini, in: Archives for the Philosophy and History of Soft Computing, Issue 1, October 2013.

2013 A fuzzy methodology to alleviate information overload in eLearning

F. A. D'Asaro, V. Perticone, M. E. Tabacchi, in: Proceedings of EUSFLAT 2013, pp. 161–167.

2013 Technology and human sciences: a dialogue to be constructed or a common thread to be rediscovered?

F. A. D'Asaro, V. Perticone, M. E. Tabacchi, S. Termini, in: Proceedings of IFSA/NAFIPS 2013, pp. 679–684.

GOOGLE SCHOLAR METRICS

Sep 16, 2025 Citations **227**; h-index **10**; i10-index **10**.

For more information and a fuller list of my publications visit my GS profile.

PROJECTS

2025–present FAIR (PNRR)

Role: Postdoctoral researcher/collaborator on logic for ethical human–AI collaboration (eDefAI, Ethical Design for AI, "Symbiotic AI"). **IDs:** PNRR Extended Partnership `PE00000013` (FAIR); Spoke 6 CUP `H97G22000210007`.

2022–2024 REVO (PON)

Role: Researcher (Temporary Professor, University of Verona). Developed Handwritten recognition tools, entity matching, and eligibility pre-screening modules; requirements analysis with REVO Insurance; supervision of collaborators hired on the project. **IDs:** PON R&I 2014–2020, DM 1062/2021 (Action IV.4); UniVR selection code `2021rtdaPON03`; CUP `B39J21025840001`; company secondment at REVO SPAC (12 months).

2022–2025 BRIO (PRIN)

Role: Proponent and internal collaborator/PRIN participant (University of Milan); external collaborator after institutional move (EThOS Group, University of Verona). Maynly worked on formal frameworks for trust/bias and tooling. **IDs:** PRIN 2020 protocol `2020SSKZ7R_001` (ERC SH4).

2018–2019 AVATEA (POR)

Role: Postdoctoral researcher. Designed and implemented a runtime epistemic probabilistic Event Calculus architecture for sensor fusion and decision-making in rehabilitation serious games. **IDs:** POR Campania FESR 2014–2020; CUP `B13D18000130007`.

PROFESSIONAL SERVICE

- Co-organizer of the eDefAI (Ethical Design for AI)–3rd Logic for the AI Spring Summer School, Lecce, 2025.
- Member of the Program Committee of the International Joint Conference on Artificial Intelligence (IJCAI) in 2020, 2024 and 2025.
- PC Member of the International Conference on Principles of Knowledge Representation and Reasoning (KR) since 2022.
- PC Member of the 26th European Conference on Artificial Intelligence (ECAI) since 2023.
- Co-organizer of the EThOS series of seminars since 2022.
- Workshop Chair of the 1st, 2nd and 3rd Workshops on Bias, Ethical AI, Explainability and the Role of Logic and Logic Programming (BEWARE), co-located with the AIxIA conference since 2022.
- Co-editor of the Special Issue on Explainable Artificial Intelligence models and methods in Finance and Healthcare of the journal Frontiers in Artificial Intelligence
- Workshop Chair of the 1st Workshop on Machine Ethics and Explainability (ME and E), co-located with ICLP 2021.
- Workshop Chair of the 5th Workshop on Advances in Argumentation in Artificial Intelligence (AI^3), co-located with the AIxIA conference 2021.
- Co-organizer of the LUCI Lab (Unimi, Dept. of Philosophy) seminars in 2020/2021.
- I am Review Editor in the Editorial Board of Machine Learning and Artificial Intelligence for Frontiers in Artificial Intelligence, Frontiers in Big Data and Frontiers in Artificial Intelligence in Neurology.

REVIEWING (INCOMPLETE)

- Reviewer for the International Journal of Approximate Reasoning (IJAR), 2025
- 22nd International Conference on Principles of Knowledge Representation and Reasoning (KR 2025)
- 34th International Joint Conference on Artificial Intelligence (IJCAI 2025)
- 33rd International Joint Conference on Artificial Intelligence (IJCAI 2024)
- 21st International Conference on Principles of Knowledge Representation and Reasoning (KR 2024)
- 26th European Conference on Artificial Intelligence (ECAI 2023)
- 20th International Conference on Principles of Knowledge Representation and Reasoning (KR 2023)
- 19th International Conference on Principles of Knowledge Representation and Reasoning (KR 2022)
- Special Issue on Reasoning about Social Networks of the Journal of Logic and Computation
- 12th International Conference on Social Robotics (ICSR-2020)
- Journal of Hydrologic Engineering (J. Hydrol. Eng.)
- IEEE International Conference on Systems, Man, and Cybernetics 2019 (SMC-19)
- 20th workshop "From Objects to Agents" (WOA-19)
- 28th International Joint Conference on Artificial Intelligence (IJCAI-19)
- Special Issue on Commonsense Reasoning of the journal Annals of Mathematics and Artificial Intelligence (AMAI)
- 32nd AAAI Conference on Artificial Intelligence (AAAI-18)
- 27th International Joint Conference on Artificial Intelligence (IJCAI-18)
- 33rd International Conference on Logic Programming (ICLP-17)
- 26th International Joint Conference on Artificial Intelligence (IJCAI-17)
- 25th International Joint Conference on Artificial Intelligence (IJCAI-16)

INVITED TALKS

- **May 2025** - Invited talk on learning Argumentation Semantics at PACMAN 2025 (Proof, Argumentation, Computation, Modalities And Negation), University of Roma Tre.
- **March 2024** - Invited talk on logic programming for Explainable AI at PACMAN 2024 (Proof, Argumentation, Computation, Modalities And Negation), University of Verona.
- **June 2023** - Invited talk on Explainable AI applications of Inductive Logic Programming at the University of Salento.
- **April 2023** - Invited talk on Explainable AI applications of Inductive Logic Programming at the University of Lugano.
- **March 2022** - Invited talk on probabilistic epistemic reasoning about actions at UCL, UK.
- **Dec 2021** - Invited talk on explaining black-boxes using ILASP at the University of Trieste, Italy.
- **Aug 2021** - Invited talk on my AIJ paper "Probabilistic Reasoning About Epistemic Action Narratives" (with A. Bikakis, L. Dickens, R. Miller) at **IJCAI 2021** (see https://ijcai-21.org/videos-slides/?video=J26 for the full video).

- **13 Apr 2021** - Invited demo at the Lorenz Center Workshop on Explainable Medical AI: Ethics, Epistemology, and Formal Methods.
- **5 Jun 2020** - Invited talk on explaining black-boxes using ILASP at the SPIKE Group (Imperial College London, UK).

RESEARCH GROUPS

- I am member of the EThOS – Ethics and Technologies Of the Self research center at the University of Verona, Italy
- I am member of the Logic Uncertainty Computation and Information (LUCI) Group at the University of Milan, Italy
- I am member of the Structured and Probabilistic Intelligent Knowledge Engineering (SPIKE) Group at Imperial College London, UK
- I am member of the Knowledge, Information and Data Science (KIDS) Group at University College London, UK

MAIN PROFESSIONAL MEMBERSHIPS

- AILA – Associazione Italiana di Logica e sue Applicazioni
- SILFS – Società Italiana di Logica e Filosofia delle Scienze
- AIxIA – Associazione Italiana per l'Intelligenza Artificiale
- GULP – Gruppo Ricercatori e Utenti di Programmazione Logica

PROGRAMMING

Fluent in logic-programming (Answer Set Programming with *clingo*, Prolog/ProbLog; ILASP/FastLAS) and advanced user of Vibe Coding for AI-assisted development, data analysis, and rapid prototyping. Professional experience with Python, Java, JavaScript/TypeScript, PHP, SQL, HTML/CSS; working knowledge of C and MATLAB; additional exposure to Lisp-family languages (Common Lisp, Clojure) and Anglican. My GitHub include projects for logic, mathematical, statistical and philosophical enquiry such as:

- **Bounded reasoning & ASP toolkits**: prototypes for k-depth and modal/temporal reasoning in ASP (e.g., Event Calculus encodings, teaching demos).
- **Piattaforma FUR**: a Docker-based publication analytics platform (MariaDB, PHP, JS) integrating IRIS/ANVUR/Scopus/SCImago data with scoring and dashboard modules.
- **Data pipelines**: Python/Playwright scripts for institutional dataset collection and merging (CSV/Parquet), plus utilities for bibliometric lookups and reports.

LANGUAGES

ITALIAN · Native speaker

ENGLISH · Full professional proficiency

OTHER INTERESTS

Cinema · Guitar Playing · Music · Chess

I hereby confirm that all the information in this CV is true and accurate, and I assume full responsibility for its content, acknowledging all legal consequences under the current Italian legislation, pursuant to Articles 46 and 47 of D.P.R. 28 December 2000, n. 445.

Verona, October 14, 2025