

CURRICULUM VITAE ABREVIADO (CVA)

IMPORTANT

– The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the

Part A. PERSONAL INFORMATION

First name	Tommaso		
Family name	Flaminio		
Gender (*)	Male	Birth date (dd/mm/yyyy)	12/07/1978
Social Security, Passport, ID number	Social Security: 081234739944 NIE: Y0913319A		
e-mail	tommaso@iia.csic.es	URL Web	
Open Researcher and Contributor ID (ORCID) (*)	0000-0002-9180-7808		

(*) *Mandatory*

A.1. Current position

Position	Científico Titular (Tenured Scientists)		
Initial date	21/11/2021		
Institution	Agencia Estatal Consejo Sup. de Investigación Científicas, CSIC		
Department/Center	Dep. of Logic and Reasoning / Instituto de Investigación en Inteligencia Artificial		
Country	Spain	Teleph. number	672039214
Key words	Logic; Uncertain reasoning; Modal logic; Many-valued logic		

A.2. Previous positions (research activity interruptions, indicate total months)

Period	Position/Institution/Country/Interruption cause
2018 - 2021	Ramón y Cajal Researcher at the IIIA – CSIC of Bellaterra, Barcelona, Spain.
2013 - 2017	Postdoctoral Fellow (“Probability Theory of Non-Classical Events” – FIRB 2012). DiSTA - Dep. of Theoretical and Applied Science, University of Insubria. Varese, Italy
2010 - 2013	Postdoctoral Fellow – Juan de la Cierva Program (“Reasoning under uncertainty: a measure theoretical, logical and algebraic approach”) at the IIIA – CSIC of Bellaterra, Barcelona, Spain.
2007 - 2009	Postdoctoral Fellow in Mathematical Logic at the University of Siena. Department of Mathematics and Computer Science. Siena, Italy.

A.3. Education



PhD, Licensed, Graduate	University/Country	Year
PhD in Mathematical Logic and Theoretical Computer Science	University of Siena, Italy	2006
Degree in Mathematics	University of Siena, Italy	2003

(Include all the necessary rows)

Part B. CV SUMMARY

Tommaso Flaminio is Tenured Scientist (Científico Titular) at the Artificial Research Institute (IIIA) of the Spanish National Research Council (CSIC), Barcelona, Spain.

He obtained the Laurea degree in Mathematics at the University of Siena (2003) and the PhD in Mathematical Logic and Theoretical Computer Science (2006) in the same university. Previously he has been Ramón y Cajal researcher at the IIIA – CSIC (2018 - 2021); senior postdoc fellow at the Department of Pure and Applied Science at the University of Insubria (Varese, Italy) within the project “Probability Theory of Nonclassical Events” led by Vincenzo Marra (2013 - 2017); Juan de la Cierva fellow at the IIIA – CSIC under the supervision of Lluís Godó with a research project titled “Reasoning under uncertainty: a measure theoretical, logical and algebraic approach” (2010 - 2013); junior postdoc fellow at the Department of Mathematics and Computer Science at the University of Siena (Italy) under the supervision of Franco Montagna (2007 - 2009).

His research interests are in logic, especially algebraic and modal, subjective probability theory and computational complexity. On them, he grounded his research direction on problems arising from uncertain reasoning, artificial intelligence, decision theory and logics for belief revision.

Tommaso Flaminio is author of ~90 among scientific papers in international journals, proceeding of international conferences and book chapters. He has served in the PC of numerous national and international logic and AI-oriented conferences (ECAI, ECSQARU, IJCAI, KR, UAI, CCIA, CAEPIA) and more fuzzy logic-oriented conferences (EUSFLAT, FUZZ-IEEE, IFSA, IPMU, LATD).

He supervised 2 Bachelor degree thesis; 3 PhD thesis, and 1 post-doc:

Bachelor thesis:

- *Francesco Betti (2008), The Quantum Computer. Bachelor Degree in Computer Science, University of Siena, Italy.*
- *Daniela Cadinu (2009), From Natural Language to Fuzzy Modeling: a Case Study. Bachelor Degree in Computer Science, University of Siena, Italy.*

PhD Thesis:

- *Francesco Marigo. PhD course in Computer Science and Computational Mathematics. University of Insubria, Italy. Defended in 2006.*
- *Jacopo Amidei. PhD course in Philosophy. Scuola Normale Superiore di Pisa, Italy. Defended in 2007.*
- *Sara Ugolini. PhD course in Computer Science. University of Pisa, Italy. Defended in 2018.*

Postdoc:

- *Stefano Bonzio. Beatriu de Pinós at the IIIA - CSIC in Barcelona. Project title: Beyond de Finetti's Coherence. April 2021– September 2021.*



Since January 2017 Tommaso Flaminio is coordinator of the Working Group on Mathematical Fuzzy Logic of the European Society for Fuzzy Logic and Technology EUSFLAT. He is Area Editor for the journals *Fuzzy Sets and Systems* and the *International Journal of Approximate Reasoning*.

Flaminio currently is PI and international coordinator of the European MSCA-RISA action MOSAIC-Modalities in Substructural Logics: Theory, Methods and Applications.

Since 2021 Tommaso Flaminio is member of the PhD program “the human mind and its explanations: language, brain and reasoning” at the University of Milan, Italy.

Part C. RELEVANT MERITS (sorted by typology)

National Habilitations:

1. Mathematical Logic. Italian national scientific habilitation in Mathematical Logic (sector A1/01) for the associate professorship (*seconda fascia*). The habilitation has been obtained in 2014 and renewed in 2017.
2. Logic, History and Philosophy of Science. Italian national scientific habilitation in Logic, History and Philosophy of Science (sec. 11/C2) for the associate professorship (*seconda fascia*). The habilitation has been obtained in 2017.
3. I3 Program. Certificate attesting the quality of scientific production and scientific-technical activity by the Spanish National Agency for Research (AEI). (Programa de Incentivación de la Incorporación e Intensificación de la Actividad Investigadora – Programa I3). Obtained in 2022.

Awards:

1. The paper “An algebraic approach to states on MV-algebras”, has been awarded as one of the best five papers presented at 5th Conference of the European Society for Fuzzy Logic and Technology EUSFLAT 2007.
2. The paper Towards a standard completeness for a probabilistic logic on infinite-valued events has been included in the session “Best Paper Award Nominees” at the 15th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty ECSQARU 2019.
3. The talk “Algebras of Counterfactual Conditionals” has received the Best Presentation Award at the 5th Postgraduate Conference on Logic and Philosophy of Science, SILFS 2022.
4. The paper “Rotations of Gödel algebras with modal operators” has received the “Zadeh Best Paper Award” at the 19th International Conference on Information Processing and Management of Uncertainty in Knowledge- Based Systems, IPMU 2022.

JCR articles, h Index, thesis supervised

- *Published papers in International Journals*: 44 of which 14 in Q1; 10 in Q2 (WoS);
- *Published papers in Proceedings of International Conferences*: 44;
- *Published Book Chapters*: 5;
- *Total citations*: WoS: 443; Scopus: 575; Scholar: 1070;
- *Supervised thesis*: 3 Phd thesis; 2 Bachelor thesis;
- *H-index*: WoS: 12; Scopus: 13; Scholar: 17;
- *P.I. of research projects*: 3;
- *Invited speaker at int. conferences*: 12;
- *Program committee for int. conferences and workshops*: 30.

C.1. Publications (10 most relevant publications in the last 5 years)

1. E. A. Corsi, T. Flaminio, H. Hosni. A logico-geometric comparison of coherence for non-additive uncertainty measures. *Annals of Pure and Applied Logic* 103342, <https://doi.org/10.1016/j.apal.2023.103342>. 2023

2. T. Flaminio, S. Ugolini. Encoding de Finetti's coherence within Łukasiewicz logic and MV-algebras. *Annals of Pure and Applied Logic* 103337, <https://doi.org/10.1016/j.apal.2023.103337>. 2023
3. T. Flaminio, U. Rivieccio. Prelinearity in (quasi-)Nelson logic. *Fuzzy Sets and Systems* 445: 66–89, 2022.
4. M. E. Coniglio, F. Esteva, T. Flaminio, L. Godo. On the expressive power of Łukasiewicz square operator. *Journal of Logic and Computation* 32(4): 767–807, 2022.
5. F. Esteva, A. Figallo-Orellano, T. Flaminio, L. Godo. Logics of Formal Inconsistency Based on Distributive Involutive Residuated Lattices. *Journal of Logic and Computation* 31(5): 1226–1265, 2021.
6. T. Flaminio. On standard completeness and finite model property for a probabilistic logic on Łukasiewicz events. *International Journal of Approximate Reasoning* 131, 136–150, 2021.
7. T. Flaminio, L. Godo, H. Hosni. Boolean algebras of conditionals, probability and logic. *Artificial Intelligence* 286, 103347, 2020.
8. T. Flaminio. Three characterizations of strict coherence on infinite-valued events. *The Review of Symbolic Logic* 13(3): 593–610, 2020.
9. T. Flaminio, L. Godo, S. Ugolini, Towards a probability theory for product logic: states, integral representation and reasoning. *International Journal of Approximate Reasoning* 93: 199–218, 2018.
10. T. Flaminio, H. Hosni, F. Montagna, Strict Coherence on Many-Valued Events. *The Journal of Symbolic Logic* 83(1): 55–69, 2018.

C.2. Congress (Invited talks in the last 5 years)

1. Boolean algebras of conditionals. **Invited talk** at “First Algebra Week”. Siena, Italy. June 2018.
2. (Strict) coherence on Łukasiewicz events: geometry, probability and logic. **Invited talk** at “Bayes by the sea – Formal Epistemology, Statistics and Probability”. Ancona, Italy. September 2018
3. The probability, the geometry and the logic of (strict) coherence on Łukasiewicz events. **Invited talk** at the “2nd Workshop on Logic and Information”. University of Milan, Italy. November 2019
4. Local reduction of probabilistic reasoning to Łukasiewicz logic and MV-algebras. **Invited talk** at the International Workshop on Non-Classical Logic and Probabilistic Reasoning. System and Data Security Laboratoire d'Informatique Fondamentale d'Orléans, France (virtual). February 2022
5. Standard completeness and finite model property for a probabilistic logic on Łukasiewicz events. **Invited talk** at “Finite Model Theory and Many-Valued Logic: Challenges and Interactions”. The University of Queensland, Australia (virtual). November 2022

C.3. Research projects,

1. SuMoL 2020–2022 Substructural modal logics for Knowledge Representation. CSIC I-Link project (LINKC20018). **PI:** Tommaso Flaminio (Barcelona, Spain) and Igor Sedlar (Prague, Czech Republic).
2. MOSAIC 2021–2025 Modalities in Substructural Logics: Theory, Methods and Applications. H2020-MSCA-RISE-2020 (Grant Agreement number 101007627). **Int. Coordinator:** Tommaso Flaminio (Barcelona, Spain).
3. LAC 2022 Lógicas y Algebras para Condicionales. Proyecto Intramural Especial (OEP 2019). **PI:** Tommaso Flaminio (Barcelona, Spain).
4. JAE-Intro 2022 Algebraic methods for reasoning under uncertainty. **Supervisor:** Tommaso Flaminio (Barcelona, Spain).