

## ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n.1\_\_ posto/i di Ricercatore a tempo determinato ai sensi dell'art.24, comma 3, lettera a) della Legge 240/2010 per il settore concorsuale \_\_11/C2\_\_\_\_\_, settore scientifico-disciplinare \_\_M-FIL/02\_\_\_\_\_, presso il Dipartimento di FILOSOFIA "PIERO MARTINETTI"\_\_\_\_\_, (avviso bando pubblicato sulla G.U. n. \_\_19\_\_ del \_\_08/03/2022\_\_) Codice concorso \_4961\_

## **[Matteo Bianchi]** **CURRICULUM VITAE**

(N.B. IL CURRICULUM NON DEVE ECCEDERE LE 30 PAGINE E DEVE CONTENERE TUTTI GLI ELEMENTI UTILI ALLA VALUTAZIONE DEI TITOLI SOTTOPOSTI AL GIUDIZIO DELLA COMMISSIONE)

### INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	BIANCHI
NOME	MATTEO
DATA DI NASCITA	[ 15,5,1981 ]

NOTA: UNITAMENTE AL PRESENTE MODULO VIENE ANNESSO IL CURRICULUM ESTESO, DOVE SI POSSONO REPERIRE ULTERIORI INFORMAZIONI.

### TITOLI

#### TITOLO DI STUDIO

(indicare la Laurea conseguita inserendo titolo, Ateneo, data di conseguimento, ecc.)

Laurea magistrale in Informatica, Università degli Studi di Milano, 2007

#### TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO

(inserire titolo, ente, data di conseguimento, ecc.)

Dottorato di ricerca in Matematica e Statistica per le Scienze Computazionali (MaSSC), Università degli Studi di Milano, 17/12/2010

#### ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO

(inserire anno accademico, ateneo, corso laurea, ecc.)

#### DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI;

(inserire anno accademico, ente, corso, ecc.)

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## REALIZZAZIONE DI ATTIVITÀ PROGETTUALE

(indicare, data, progetto, ecc.)

- Sono stato membro del progetto nazionale PRIN 2008 “Logica e algebra dell’ informazione incerta” .
- Sono stato membro del progetto nazionale FIRB 2010 “Probability theory of non-classical events” . In particolare, da marzo 2012 a febbraio 2013 ho usufruito di un assegno di ricerca finanziato con i fondi del progetto.
- Sono stato membro del progetto nazionale PRIN 2010 “Metodi logici per il trattamento dell’ informazione”

## ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI, O PARTECIPAZIONE AGLI STESSI

(per ciascuna voce inserire anno, ruolo, gruppo di ricerca, ecc.)

Dal 2015 sono membro del gruppo GNSAGA (Gruppo Nazionale per le Strutture Algebriche, Geometriche e le loro Applicazioni), Logica matematica e applicazioni, dell’INDAM (Istituto Nazionale di Alta Matematica).
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## TITOLARITÀ DI BREVETTI

(per ciascun brevetto, inserire autori, titolo, tipologia, numero brevetto, ecc.)

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## ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

(inserire titolo congresso/convegno, data, ecc.)

### Conference talks

- “The variety generated by all the ordinal sums of perfect MV-chains” – “Algebraic Semantics for Uncertainty and Vagueness” , Salerno, 18-20 May 2011.  
<http://logica.dmi.unisa.it/AlgebraicSemantics2011/pag-home>
- “On some logical and algebraic properties of axiomatic extensions of the monoidal t-norm based logic MTL related with single chain completeness” – “ManyVal ’ 12” , Salerno, July 2012.  
<http://logica.dmi.unisa.it/manyval12/>
- “A temporal semantics for nilpotent minimum logic” – “ManyVal 2013” , Prague, 4-9 September 2013.  
[www.cs.cas.cz/manyval13/](http://www.cs.cas.cz/manyval13/)
- “Trakhtenbrot theorem and first-order axiomatic extensions of MTL” – “LATD 2014” , Vienna, 16-19 July 2014.  
<https://www.logic.at/latd2014/>
- “Trakhtenbrot theorem and first-order axiomatic extensions of MTL” – “TACL 2015” , Ischia, 21-26 June 2015.

<http://logica.dmi.unisa.it/tac1/>

- “Single chain completeness and some related properties” - “ManyVal 2015” , Les Diablerets, 11–13 December 2015.  
<https://mathsites.unibe.ch/manyval2015/>
- “On linear varieties of MTL-algebras” - “Sysmics 2016” , Barcelona, 5–9 September 2016.  
<http://sysmics-16.iiia.csic.es/>
- “Minimally Many-Valued Extensions of the Monoidal T-norm based Logic MTL” - “WILF 2016” , Napoli, 19–21 December 2016.  
<http://cvprlab.uniparthenope.it/wilf2016/>
- “The classification of all the subvarieties of DNMG” - “Eusflat 2017” , Warsaw, 11–15 September 2017.  
<http://www.eusflat2017.ibspan.waw.pl/>
- “Almost minimal and strictly join irreducible varieties of MTL-algebras” - “Many-Val 2017” , Tolosa (Francia), 15–17 November 2017.  
<http://www.cimi.univ-toulouse.fr/en/events//MANYVAL2017>
- “Strictly join irreducible elements in the lattice of varieties of BL-algebras” - “IEEE SSCI 2017” , Honolulu, 27 November – 1 December 2017.  
<http://www.ele.uri.edu/ieee-ssci2017/index.html>
- “The classification of all the subvarieties of DNMG” - “Substructural logics: semantics, proof theory, and applications – Second Sysmics Workshop” , Vienna, 26–28 February 2018.  
<https://sysmics.logic.at/>
- “On some properties of the lattice of varieties of MTL-algebras” - “AsubL (Algebra and Substructural Logics– Take 6)” , Cagliari, 11–13 June 2018.  
<http://sites.unica.it/asubl6/>
- “Strictly join irreducible varieties of BL-algebras” - “ManyVal 2019”, Bucharest, 1–3 November 2019  
<https://cs.unibuc.ro/events/manyval2019/>
- “Finite model property and varieties of BL-algebras” - “ESCIM 2020”, virtual October edition, 7–8 October 2020
- “Finite model property and varieties of BL-algebras” - “ESCIM 2020”, virtual final edition, 15–17 February 2021 <http://escim2020.uca.es/>
- “Amalgamation property for varieties of BL-algebras generated by one chain with finitely many components” - “RAMICS 2021”, Marseille (virtual talk), 3–5 November 2021 <https://ramics19.lis-lab.fr/>

## **Conferences managed as organizer**

- “ManyVal ’ 08 – Applications of Topological Dualities to Measure Theory in Algebraic Many-Valued Logic” , Milano, 19–21 May 2008.  
<http://manyval.di.unimi.it/manyval08>
- “ManyVal ’ 10 – Beyond algebraic semantics: bridging intended and formal interpretations

of many-valued logics” , Varese, 3–5 May 2010.  
<http://manyval.di.unimi.it/>

– “Magica 16” , Milano, 5–9 September 2016.  
<http://www.dista.uninsubria.it/magica16/index.html>

**CONSEGUIMENTO DI PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA**  
(*inserire premio, data, ente organizzatore, ecc.*)

Premio AILA (Associazione Italiana di Logica e sue Applicazioni) 3+2 per tesi di laurea, edizione 2007.
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**POSSESSO DEL DIPLOMA DI SPECIALIZZAZIONE EUROPEA RICONOSCIUTO DA BOARD INTERNAZIONALI**  
(*relativamente a quei settori concorsuali nei quali è prevista*)  
(*indicare diploma, data di conseguimento, ecc.*)

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**TITOLI DI CUI ALL'ARTICOLO 24 COMMA 3 LETTERA A) E B) DELLA LEGGE 30 DICEMBRE 2010, N. 240**  
(*indicare se contratto di tipologia A o B, Ateneo, data di decorrenza e fine contratto, ecc.*)

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## **PRODUZIONE SCIENTIFICA**

### **PUBBLICAZIONI SCIENTIFICHE**

(*per ciascuna pubblicazione indicare: nomi degli autori, titolo completo, casa editrice, data e luogo di pubblicazione, codice ISBN, ISSN, DOI o altro equivalente*)

#### **Papers published in journals**

1. S. Aguzzoli, M. Bianchi, and V. Marra. A temporal semantics for Basic Logic. *Studia Logica*, 92(2):147–162, 2009. doi:10.1007/s11225-009-9192-3
2. M. Bianchi and F. Montagna. Supersound many-valued logics and Dedekind-MacNeille completions. *Arch. Math. Log.*, 48(8):719–736, 2009. doi:10.1007/s00153-009-0145-3
3. M. Bianchi and F. Montagna. n-contractive BL-logics. *Arch. Math. Log.*, 50(3–4):257–285, 2011. doi:10.1007/s00153-010-0213-8
4. M. Bianchi. The Variety Generated by all the Ordinal Sums of Perfect MVChains. *Studia Logica*, 101(1):11–29, 2012. doi:10.1007/s11225-012-9371-5
5. M. Bianchi. First-order nilpotent minimum logics: first steps. *Arch. Math. Log.*, 52(3–4):295–316, 2013. doi:10.1007/s00153-012-0317-4
6. M. Bianchi. A temporal semantics for Nilpotent Minimum logic. *Int. J. Approx. Reason.*, 55(1):391 – 401, 2014. doi:10.1016/j.ijar.2013.10.007

7. T. Flaminio and M. Bianchi. A Note on Saturated Models for Many-Valued Logics. *Math. Slovaca*, 65(4):747-760, 2015. doi:10.1515/ms-2015-0053
8. M. Bianchi and F. Montagna. Trakhtenbrot Theorem and First-Order Axiomatic Extensions of MTL. *Studia Logica*, 103(6):1163-1181, 2015. doi:10.1007/s11225-015-9614-3
9. M. Bianchi. The logic of the strongest and the weakest t-norms. *Fuzzy Sets Syst.*, 276:31-42, 2015. doi:10.1016/j.fss.2015.01.013
10. M. Bianchi. Corrigendum to “The logic of the strongest and the weakest t-norms [Fuzzy Sets Syst. 276 (2015) 31-42]”. *Fuzzy Sets Syst.*, 284:152 - 153, 2016. doi:10.1016/j.fss.2015.08.002
11. S. Aguzzoli and M. Bianchi. On some questions concerning the axiomatisation of WNM-algebras and their subvarieties. *Fuzzy Sets Syst.*, 292:5-31, 2016. doi:10.1016/j.fss.2014.07.007
12. S. Aguzzoli and M. Bianchi. Single chain completeness and some related properties. *Fuzzy Sets Syst.*, 301:51-63, 2016. doi:10.1016/j.fss.2016.03.008
13. S. Aguzzoli and M. Bianchi. On varieties singly generated by a well-connected  $FL_{ew}$ -algebra. *Fuzzy Sets Syst.*, 320:60 - 63, 2017. doi:10.1016/j.fss.2016.11.004
14. S. Aguzzoli and M. Bianchi. On linear varieties of MTL-algebras. *Soft Comput.*, 23(7):2129-2146, 2019. doi:10.1007/s00500-018-3423-3
15. S. Aguzzoli, M. Bianchi, B. Gerla, and D. Valota. Free algebras, states and duality for the propositional Gödel and Drastic Product logics. *Int. J. Approx. Reason.*, 104:57-74, 2019. doi:10.1016/j.ijar.2018.10.016
16. S. Aguzzoli and M. Bianchi. Strictly join irreducible varieties of BL-algebras: the missing pieces. *Fuzzy Sets Syst.*, 418:84-100, 2021.

### Conference proceedings papers

1. S. Aguzzoli, M. Bianchi, and D. Valota. A Note on Drastic Product Logic. In A. Laurent, O. Strauss, B. Bouchon-Meunier, and R. R. Yager, editors, *Information Processing and Management of Uncertainty in Knowledge-Based Systems: 15th International Conference, IPMU 2014, Montpellier, France, July 15-19, 2014, Proceedings, Part II*, pages 365-374. Springer International Publishing, 2014. doi:10.1007/978-3-319-08855-6\_37
2. S. Aguzzoli, M. Bianchi, and T. Flaminio. MTL-algebras that define the dual monoidal operation. In *2015 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)*, pages 1-8, Aug 2015. doi:10.1109/FUZZ-IEEE.2015.7338014
3. S. Aguzzoli and M. Bianchi. Minimally Many-Valued Extensions of the Monoidal t-Norm Based Logic MTL. In A. Petrosino, V. Loia, and W. Pedrycz, editors, *Fuzzy Logic and Soft Computing Applications: 11th International Workshop, WILF 2016, Naples, Italy, December 19-21, 2016, Revised Selected Papers*, pages 106-115. Springer International Publishing, 2017. doi:10.1007/978-3-

4. Stefano Aguzzoli, Matteo Bianchi, Brunella Gerla, and Diego Valota. Probability Measures in Gödel Logic. In Alessandro Antonucci, Laurence Cholvy, and Odile Papini, editors, Symbolic and Quantitative Approaches to Reasoning with Uncertainty: 14th European Conference, ECSQARU 2017, Lugano, Switzerland, July 10-14, 2017, Proceedings, pages 353-363. Springer International Publishing, 2017. doi:10.1007/978-3-319-61581-3\_32
5. S. Aguzzoli, M. Bianchi, and D. Valota. The Classification of All the Subvarieties of DNMG. In J. Kacprzyk, E. Szmidt, S. Zadrozny, K. T. Atanassov, and M. Krawczak, editors, Advances in Fuzzy Logic and Technology 2017: Proceedings of: EUSFLAT-2017 - The 10th Conference of the European Society for Fuzzy Logic and Technology, September 11-15, 2017, Warsaw, Poland IWIFSGN' 2017 - The Sixteenth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets, September 13-15, 2017, Warsaw, Poland, Volume 1, pages 12-24. Springer, 2018. doi:10.1007/978-3-319-66830-7\_2
6. M. Bianchi. Strictly join irreducible elements in the lattice of varieties of BLalgebras. In 2017 IEEE Symposium Series on Computational Intelligence (SSCI) Proceedings. IEEE, 2018. doi:10.1109/SSCI.2017.8285361
7. S. Aguzzoli and M. Bianchi. Finite model property and varieties of BL-algebras. In I. Harmati, L.T. Koczy, J. Medina, and E. Ramirez-Poussa, editors, Computational Intelligence and Mathematics for Tackling Complex Problems 3, pages 23-30. Springer International Publishing, 2022.
8. S. Aguzzoli and M. Bianchi. Amalgamation property for varieties of BL-algebras generated by one chain with finitely many components. In U. Fahrenberg, M. Gehrke, L. Santocanale, and M. Winter, editors, Relational and Algebraic Methods in Computer Science, pages 1-18. Springer International Publishing, 2021.

## Phd Thesis

1. M. Bianchi. On some axiomatic extensions of the monoidal t-norm based logic MTL: an analysis in the propositional and in the first-order case. PhD thesis, Dottorato in "Matematica e Statistica per le Scienze Computazionali", Dipartimento di Matematica "Federigo Enriques", Università degli Studi di Milano, 2010

## Monographs

1. M. Bianchi. On Some Axiomatic Extensions of the Monoidal T-norm Based Logic MTL: an Analysis in the Propositional and in the First-order Case. Mathematical Sciences. Ledizioni, 2011. ISBN:9788895994567

Data

10/3/2021

Luogo

Milano

# Europass Curriculum Vitae

## Personal information

Name / Surname	<b>Bianchi, Matteo</b>
Personal Email	matteob@gmail.com
PEC	matteob@arubapec.it
Home page	<a href="https://sites.google.com/site/matteob/">https://sites.google.com/site/matteob/</a>
Nationality	Italian
Date of birth	15/05/1981
Gender	male
ORCID	0000-0002-3896-7853

## Education and training

Dates	2000 - 2005
Title of qualification awarded	Bachelor degree in Computer Science
Name and type of organization providing education and training	Dipartimento di Scienze dell'Informazione, Università degli Studi di Milano
Dates	2005 - 2007
Title of qualification awarded	Master's degree in Computer Science. Thesis title: Semantiche alla Kripke per logiche polivalenti
Name and type of organization providing education and training	Dipartimento di Scienze dell'Informazione, Università degli Studi di Milano
Dates	November 2007 - December 2010
Title of qualification awarded	Phd in "Matematica e Statistica per le Scienze Computazionali". Thesis title: On some axiomatic extensions of the monoidal t-norm based logic MTL: an analysis in the propositional and in the first-order case
Principal subjects/Occupational skills covered	Research activity in mathematical logic, in particular many-valued logics: see the following of the curriculum for a description of my research area
Name and type of organization providing education and training	Dipartimento di Matematica "Federigo Enriques", Università degli Studi di Milano

## Additional academic titles

Dates	28 March 2017 - 28 March 2026
Title of qualification awarded	Abilitazione Scientifica nazionale, seconda fascia, settore 01/A1
Dates	12 May 2020 - 12 May 2029
Title of qualification awarded	Abilitazione Scientifica nazionale, seconda fascia, settore 11/C2

## Prizes

I was one of the winners of "Concorso AILA 3+2 2007" (second place) for the best master's thesis in mathematical logic. This prize was called by "Associazione Italiana di Logica e sue Applicazioni".

## Work experience

Dates	November 2007 - December 2010
Occupation or position held	Phd in "Matematica e Statistica per le Scienze Computazionali"



Name and address of employer  
 Dates  
 Occupation or position held  
 Name and address of employer  
 Dates  
 Occupation or position held  
 Name and address of employer  
 Dates  
 Occupation or position held  
 Name and address of employer

Dipartimento di Matematica “Federigo Enriques”, Università degli Studi di Milano  
 March 2012 - February 2013  
 research grant holder  
 Dipartimento di Informatica e Comunicazione, Università degli Studi di Milano  
 May 2013 - April 2017  
 research grant holder  
 Department of Computer Science, Università degli Studi di Milano  
 May 2017 - April 2018  
 research grant holder  
 Dipartimento di Scienze Teoriche e Applicate, Università degli Studi dell’Insubria

## Personal skills and competences

Mother tongue  
 Other language(s)

*Self-assessment  
 European level<sup>(\*)</sup>*

**English**

**French**

## Italian

English, French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user
B1 Independent user	B1 Independent user	B1 Independent user	B1 Independent user	B1 Independent user

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

Organisational skills and competences

Research Area

During my academic career I have been part of the organizing committee of three scientific conferences (ManyVal 2008, ManyVal 2010 and Magica 16): see the last part of the curriculum for details.

My research area is about mathematical logic, in particular the hierarchy of many-valued logics introduced by Petr Hájek in (P. Hájek, *Metamathematics of Fuzzy Logic*, Kluwer, 1998). These logics are generalizations of classical (boolean) logic, in the sense that they possess (finitely or infinitely many) intermediate truth-values between the absolute true (1) and the absolute false (0), and are studied in the propositional and in the first order case. These logics are more expressive than the classical counterpart and can be used to cope with the vagueness of the information. Some examples of concepts that can be handled by these logics (in particular in the first-order case, where the predicates are interpreted as fuzzy sets) are sentences like “the temperature is high”, “the pressure is low”: more in general, the situations where there are properties that are vague (in the sense that there are some “borderline” elements for which it is not clear if they have this property or not), as the ones previously cited. In these cases the framework of classical logic, with only two truth-values, becomes quite rigid: the logics of Hájek’s frameworks, instead, are much more flexible and allow to grasp this vagueness, using intermediate truth-values.

## Additional informations

## Projects

- I have been a member of the national Italian project PRIN 2008 “Logica e algebra dell’informazione incerta”.
- I have been a member of the national Italian project FIRB 2010 “Probability theory of non-classical events”. In particular, my first post-doc position - from March 2012 to February 2013 - have been funded with this project.
- I have been a member of the national Italian project PRIN 2010 “Metodi logici per il trattamento dell’informazione”.

## Publications

### Papers published in journals

1. S. Aguzzoli, M. Bianchi, and V. Marra. A temporal semantics for Basic Logic. *Studia Logica*, 92(2):147–162, 2009. doi:10.1007/s11225-009-9192-3
2. M. Bianchi and F. Montagna. Supersound many-valued logics and Dedekind-MacNeille completions. *Arch. Math. Log.*, 48(8):719–736, 2009. doi:10.1007/s00153-009-0145-3
3. M. Bianchi and F. Montagna.  $n$ -contractive BL-logics. *Arch. Math. Log.*, 50(3-4):257–285, 2011. doi:10.1007/s00153-010-0213-8
4. M. Bianchi. The Variety Generated by all the Ordinal Sums of Perfect MV-Chains. *Studia Logica*, 101(1):11–29, 2012. doi:10.1007/s11225-012-9371-5
5. M. Bianchi. First-order nilpotent minimum logics: first steps. *Arch. Math. Log.*, 52(3-4):295–316, 2013. doi:10.1007/s00153-012-0317-4
6. M. Bianchi. A temporal semantics for Nilpotent Minimum logic. *Int. J. Approx. Reason.*, 55(1):391 – 401, 2014. doi:10.1016/j.ijar.2013.10.007
7. T. Flaminio and M. Bianchi. A Note on Saturated Models for Many-Valued Logics. *Math. Slovaca*, 65(4):747–760, 2015. doi:10.1515/ms-2015-0053
8. M. Bianchi and F. Montagna. Trakhtenbrot Theorem and First-Order Axiomatic Extensions of MTL. *Studia Logica*, 103(6):1163–1181, 2015. doi:10.1007/s11225-015-9614-3
9. M. Bianchi. The logic of the strongest and the weakest t-norms. *Fuzzy Sets Syst.*, 276:31–42, 2015. doi:10.1016/j.fss.2015.01.013
10. M. Bianchi. Corrigendum to “The logic of the strongest and the weakest t-norms [Fuzzy Sets Syst. 276 (2015) 31–42]”. *Fuzzy Sets Syst.*, 284:152 – 153, 2016. doi:10.1016/j.fss.2015.08.002
11. S. Aguzzoli and M. Bianchi. On some questions concerning the axiomatisation of WNM-algebras and their subvarieties. *Fuzzy Sets Syst.*, 292:5–31, 2016. doi:10.1016/j.fss.2014.07.007
12. S. Aguzzoli and M. Bianchi. Single chain completeness and some related properties. *Fuzzy Sets Syst.*, 301:51–63, 2016. doi:10.1016/j.fss.2016.03.008
13. S. Aguzzoli and M. Bianchi. On varieties singly generated by a well-connected  $FL_{ew}$ -algebra. *Fuzzy Sets Syst.*, 320:60 – 63, 2017. doi:10.1016/j.fss.2016.11.004
14. S. Aguzzoli and M. Bianchi. On linear varieties of MTL-algebras. *Soft Comput.*, 23(7):2129–2146, 2019. doi:10.1007/s00500-018-3423-3

15. S. Aguzzoli, M. Bianchi, B. Gerla, and D. Valota. Free algebras, states and duality for the propositional Gödel<sub>Δ</sub> and Drastic Product logics. *Int. J. Approx. Reason.*, 104:57–74, 2019. doi:10.1016/j.ijar.2018.10.016
16. S. Aguzzoli and M. Bianchi. Strictly join irreducible varieties of BL-algebras: the missing pieces. *Fuzzy Sets Syst.*, 418:84–100, 2021. doi:10.1016/j.fss.2020.12.008

### Conference proceedings papers

1. S. Aguzzoli, M. Bianchi, and D. Valota. A Note on Drastic Product Logic. In A. Laurent, O. Strauss, B. Bouchon-Meunier, and R. R. Yager, editors, *Information Processing and Management of Uncertainty in Knowledge-Based Systems: 15th International Conference, IPMU 2014, Montpellier, France, July 15-19, 2014, Proceedings, Part II*, pages 365–374. Springer International Publishing, 2014. doi:10.1007/978-3-319-08855-6\_37
2. S. Aguzzoli, M. Bianchi, and T. Flaminio. MTL-algebras that define the dual monoidal operation. In *2015 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)*, pages 1–8, Aug 2015. doi:10.1109/FUZZ-IEEE.2015.7338014
3. S. Aguzzoli and M. Bianchi. Minimally Many-Valued Extensions of the Monoidal t-Norm Based Logic MTL. In A. Petrosino, V. Loia, and W. Pedrycz, editors, *Fuzzy Logic and Soft Computing Applications: 11th International Workshop, WILF 2016, Naples, Italy, December 19-21, 2016, Revised Selected Papers*, pages 106–115. Springer International Publishing, 2017. doi:10.1007/978-3-319-52962-2\_9
4. Stefano Aguzzoli, Matteo Bianchi, Brunella Gerla, and Diego Valota. Probability Measures in Gödel<sub>Δ</sub> Logic. In Alessandro Antonucci, Laurence Cholvy, and Odile Papini, editors, *Symbolic and Quantitative Approaches to Reasoning with Uncertainty: 14th European Conference, ECSQARU 2017, Lugano, Switzerland, July 10–14, 2017, Proceedings*, pages 353–363. Springer International Publishing, 2017. doi:10.1007/978-3-319-61581-3\_32
5. S. Aguzzoli, M. Bianchi, and D. Valota. The Classification of All the Subvarieties of DNMG. In J. Kacprzyk, E. Szmidt, S. Zadrożny, K. T. Atanassov, and M. Krawczak, editors, *Advances in Fuzzy Logic and Technology 2017: Proceedings of: EUSFLAT-2017 – The 10th Conference of the European Society for Fuzzy Logic and Technology, September 11-15, 2017, Warsaw, Poland IWIF-SGN'2017 – The Sixteenth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets, September 13-15, 2017, Warsaw, Poland, Volume 1*, pages 12–24. Springer, 2018. doi:10.1007/978-3-319-66830-7\_2
6. M. Bianchi. Strictly join irreducible elements in the lattice of varieties of BL-algebras. In *2017 IEEE Symposium Series on Computational Intelligence (SSCI) Proceedings*. IEEE, 2018. doi:10.1109/SSCI.2017.8285361
7. S. Aguzzoli and M. Bianchi. Finite model property and varieties of BL-algebras. In I. Harmati, L.T. Kóczy, J. Medina, and E. Ramírez-Poussa, editors, *Computational Intelligence and Mathematics for Tackling Complex Problems 3*, pages 23–30. Springer International Publishing, 2022. doi:10.1007/978-3-030-74970-5\_4
8. S. Aguzzoli and M. Bianchi. Amalgamation property for varieties of BL-algebras generated by one chain with finitely many components. In U. Fahrenberg, M. Gehrke, L. Santocanale, and M. Winter, editors, *Relational and Algebraic Methods in Computer Science*, pages 1–18. Springer International Publishing, 2021. doi:10.1007/978-3-030-88701-8\_1

### Phd Thesis

1. M. Bianchi. *On some axiomatic extensions of the monoidal t-norm based logic MTL: an analysis in the propositional and in the first-order case*. PhD thesis, Dottorato in "Matematica e Statistica per le Scienze Computazionali", Dipartimento di Matematica "Federigo Enriques", Università degli Studi di Milano, 2010

## Monographs

1. M. Bianchi. *On Some Axiomatic Extensions of the Monoidal T-norm Based Logic MTL: an Analysis in the Propositional and in the First-order Case*. Mathematical Sciences. Ledizioni, 2011. ISBN:9788895994567

## Conference talks

- "The variety generated by all the ordinal sums of perfect MV-chains" - "Algebraic Semantics for Uncertainty and Vagueness", Salerno, 18-20 May 2011.  
<http://logica.dmi.unisa.it/AlgebraicSemantics2011/pag-home>
- "On some logical and algebraic properties of axiomatic extensions of the monoidal t-norm based logic MTL related with single chain completeness" - "ManyVal '12", Salerno, July 2012.  
<http://logica.dmi.unisa.it/manyval12/>
- "A temporal semantics for nilpotent minimum logic" - "ManyVal 2013", Prague, 4-9 September 2013.  
[www.cs.cas.cz/manyval13/](http://www.cs.cas.cz/manyval13/)
- "Trakhtenbrot theorem and first-order axiomatic extensions of MTL" - "LATD 2014", Vienna, 16-19 July 2014.  
<https://www.logic.at/latd2014/>
- "Trakhtenbrot theorem and first-order axiomatic extensions of MTL" - "TACL 2015", Ischia, 21-26 June 2015.  
<http://logica.dmi.unisa.it/tacl/>
- "Single chain completeness and some related properties" - "ManyVal 2015", Les Diablerets, 11-13 December 2015.  
<https://mathsites.unibe.ch/manyval2015/>
- "On linear varieties of MTL-algebras" - "Sysmics 2016", Barcelona, 5-9 September 2016.  
<http://sysmics-16.iiia.csic.es/>
- "Minimally Many-Valued Extensions of the Monoidal T-norm based Logic MTL" - "WILF 2016", Napoli, 19-21 December 2016.  
<http://cvprlab.uniparthenope.it/wilf2016/>
- "The classification of all the subvarieties of DNMG" - "Eusflat 2017", Warsaw, 11-15 September 2017.  
<http://www.eusflat2017.ibspan.waw.pl/>
- "Almost minimal and strictly join irreducible varieties of MTL-algebras" - "ManyVal 2017", Toulouse, 15-17 November 2017.  
<http://www.cimi.univ-toulouse.fr/en/events/MANYVAL2017>

- “Strictly join irreducible elements in the lattice of varieties of BL-algebras” - “IEEE SSCI 2017”, Honolulu, 27 November - 1 December 2017.  
<http://www.ele.uri.edu/ieee-ssci2017/index.html>
- “The classification of all the subvarieties of DNMG” - “Substructural logics: semantics, proof theory, and applications - Second Sysmics Workshop”, Vienna, 26-28 February 2018.  
<https://sysmics.logic.at/>
- “On some properties of the lattice of varieties of MTL-algebras” - “AsubL (Algebra and Substructural Logics- Take 6)”, Cagliari, 11-13 June 2018.  
<http://sites.unica.it/asubl6/>
- “Strictly join irreducible varieties of BL-algebras” - “ManyVal 2019”, Bucharest, 1-3 November 2019  
<https://cs.unibuc.ro/events/manyval2019/>
- “Finite model property and varieties of BL-algebras” - “ESCIM 2020”, virtual October edition, 7-8 October 2020
- “Finite model property and varieties of BL-algebras” - “ESCIM 2020”, virtual final edition, 15-17 February 2021 <http://escim2020.uca.es/>
- “Amalgamation property for varieties of BL-algebras generated by one chain with finitely many components” - “RAMICS 2021”, Marseille (virtual talk), 3-5 November 2021 <https://ramics19.lis-lab.fr/>

### Conferences managed as organizer

- “ManyVal ’08 - Applications of Topological Dualities to Measure Theory in Algebraic Many-Valued Logic”, Milano, 19-21 May 2008.  
<http://manyval.di.unimi.it/manyval08>
- “ManyVal ’10 - Beyond algebraic semantics: bridging intended and formal interpretations of many-valued logics”, Varese, 3-5 May 2010.  
<http://manyval.di.unimi.it/>
- “Magica 16”, Milano, 5-9 September 2016.  
<http://www.dista.uninsubria.it/magica16/index.html>

### Further conferences

- “Logic, Algebra and Truth Degrees First conference of the working group on Mathematical Fuzzy Logic”, 8-11 September 2008.  
<http://www.mathfuzzlog.org/latd2008/>
- “The digital footprint of Gian-Carlo Rota: marbles, boxes and philosophy”, Milano, 16-18 February 2009.  
<http://sesar.dti.unimi.it/Rota2009/>
- La ricerca logica in Italia: Convegno in onore di Corrado Mangione - Milano, 10-11 September 2009.  
<http://www.filosofia.unimi.it/convmangione/>
- Probability, Uncertainty and Rationality - Certosa di Pontignano (Siena), November 1-3 2009. <http://homepage.sns.it/hosni/lori/events/pura09/>

- “Third International Workshop on Rough Set Theory (RST2011)”, Milano, 14-16 September 2011.  
<http://www.rstworkshop.tk/>
- “Coherence and Truth - In memoriam Franco Montagna”, Certosa di Pontignano, 16-18 December 2015.
- “First algebra week”, Siena, 19-22 June 2018.
- “Second algebra week”, Siena, 25-28 June 2019. <https://algebraweeksiena.wordpress.com/>
- “AAA99”, Siena, 21-23 February 2020. <http://www.congressi.unisi.it/aaa99/>

## Summer Schools and scholarships

- 3-9 September 2006 - I have attended the summer school “Scuola Estiva di Logica” organized by “Associazione Italiana di Logica e sue Applicazioni” (AILA), with a curriculum-based scholarship, offered by the same school.
- 26 August - 1 September 2007 - I have attended the summer school “Scuola Estiva di Logica” organized by “Associazione Italiana di Logica e sue Applicazioni” (AILA), with a scholarship, offered by the same school. I obtained the scholarship since I was one of the winners of “Concorso AILA 3+2 2007” (second place) for the best master’s thesis in mathematical logic.
- 31 August - 6 September 2008 - I have attended the summer school “Scuola Estiva di Logica” organized by “Associazione Italiana di Logica e sue Applicazioni” (AILA), with a curriculum-based scholarship, offered by the same school.
- 23-29 August 2009 - I have attended the summer school “Scuola Estiva di Logica” organized by “Associazione Italiana di Logica e sue Applicazioni” (AILA).
- 29 August - 4 September 2010 - I have attended the summer school “Scuola Estiva di Logica” organized by “Associazione Italiana di Logica e sue Applicazioni” (AILA).
- 21-27 August 2011 - I have attended the summer school “Scuola Estiva di Logica” organized by “Associazione Italiana di Logica e sue Applicazioni” (AILA), with a curriculum-based scholarship, offered by the same school.
- 19-25 August 2012 - I have attended the summer school “Scuola Estiva di Logica” organized by “Associazione Italiana di Logica e sue Applicazioni” (AILA).
- 25-31 August 2013 - I have attended the summer school “Scuola Estiva di Logica” organized by “Associazione Italiana di Logica e sue Applicazioni” (AILA).

## Seminars

- “Logiche polivalenti al primo ordine” (First order many-valued logics) - Dipartimento di Scienze dell'Informazione, Milano, 15 January 2008.
- “Introduzione alle logiche polivalenti” (Introduction to many-valued logics) - Dipartimento di Matematica “Federigo Enriques”, Milano, 28 January 2009.
- On some axiomatic extensions of the monoidal t-norm based logic MTL: an analysis in the propositional and in the first-order case - preliminary discussion of the PhD thesis - Dipartimento di Matematica “Federigo Enriques”, 9 November 2010.
- Supersound many-valued logics and Dedekind-MacNeille completions - Dipartimento di Scienze dell'Informazione, Milano, 9 December 2010.
- On some axiomatic extensions of the monoidal t-norm based logic MTL: an analysis in the propositional and in the first-order case - final discussion of the PhD thesis - Dipartimento di Matematica “Federigo Enriques”, 17 December 2010.
- “On some logical and algebraic properties of axiomatic extensions of the monoidal t-norm based logic MTL related with single chain completeness” - Dipartimento di Scienze dell'Informazione, Milano, 1 June 2011.

## Memberships and other informations

- From 2008 I am a member of “Association for Symbolic Logic”, <http://www.aslonline.org>.
  - From 2009 I am a member of “Mathematical Fuzzy Logic working group”, [http://www.mathfuzzlog.org/index.php/Main\\_Page](http://www.mathfuzzlog.org/index.php/Main_Page).
  - From 2012 I am a member of “Associazione Italiana di Logica e sue Applicazioni (AILA)”, <http://www.ailalogica.it/>.
  - From 2016 I am a member of “European Society for Fuzzy Logic and Technology (EUSFLAT)” <http://www.eusflat.org/>.
  - From 2015 I am a member of the research unit GNSAGA (Gruppo Nazionale per le Strutture Algebriche, Geometriche e le loro Applicazioni), Logica matematica e applicazioni, by INDAM (Istituto Nazionale di Alta Matematica).
  - I have been a reviewer for several scientific journals, and also for some international conferences.
- Moreover, I have also been a reviewer for Mathscinet (Mathematical Reviews) and ZbMath (Zentralblatt Math).