

# Marco Abbadini

POSTDOCTORAL RESEARCHER

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## Highlights

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My research develops **Stone-type categorical dualities** and representation theorems linking the algebraic semantics of logic with topological structures. I combine methods from universal algebra, topology and category theory to study structures arising from logic, including MV-algebras, lattice-ordered groups, hyperdoctrines.

## SELECTED PUBLICATIONS

- Abbadini, Marra, Spada. Stone–Gelfand duality for metrically complete lattice-ordered groups. **Advances in Mathematics** (2025).
- Abbadini, Di Liberti. Duality for coalgebras for Vietoris and monadicity. **The Journal of Symbolic Logic** (2025).
- Abbadini, Aglianò, Fioravanti. Varieties of MV-monoids and positive MV-algebras. **Journal of Algebra** (2025).

## MAJOR FUNDING & PROJECTS

- **Marie Skłodowska–Curie** Postdoctoral Fellowship (MSCA PF) (University of Birmingham, UK), 2023–2025.  
Project: *DCPOS: Dualities via ComPactness, Openness and their Symmetry*.  
Supervisor: Achim Jung.
- **FSR Incoming** Postdoctoral Fellowship (UCLouvain, Belgium), 2025–2028.  
Project: *CatCoD: Categorical Commutators and Dualities*.  
Supervisor: Marino Gran.

## HIGHLIGHTS

- **Publications:** 19 papers (18 journal + 1 proceedings).
- **Invited talks:** invited plenary talks at international conferences, such as *Topology, Algebra, and Categories in Logic 2026* and *BLAST 2023*.
- **Teaching:** teaching experience from first-year Bachelor’s to Master’s level; currently teaching as a course holder for *Categorical Dualities in Logic* (2025/26); co-supervision of BSc theses.
- **National qualifications:** Italian ASN (Seconda Fascia, 01/A1 Mathematical Logic, 2024); French MCF qualification (Mathematics & Computer Science, 2023).

Full publication list, talks, teaching and service appear in the following pages.

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## Academic positions & Education

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### ACADEMIC POSITIONS

#### **FSR Incoming Postdoctoral Fellowship**

2025.09.01 – present

UNIVERSITY OF LOUVAIN (BELGIUM), RESEARCH INSTITUTE IN MATHEMATICS AND PHYSICS.

- Project: *CatCoD: Categorical Commutators and Dualities*.
- Supervisor: Marino Gran.

#### **Marie Skłodowska–Curie Postdoctoral Fellowship (MSCA PF)**

2023.09.01 – 2025.08.31

UNIVERSITY OF BIRMINGHAM (UK), SCHOOL OF COMPUTER SCIENCE.

- Awarded after EU MSCA evaluation; funded by UK Research and Innovation under the Horizon Europe funding guarantee.
- Project: *DCPOS: Dualities via ComPactness, Openness and their Symmetry*.
- Supervisor: Achim Jung.

#### **PostDoc**

2020.12.01 – 2023.08.31

UNIVERSITY OF SALERNO (ITALY), DEPARTMENT OF MATHEMATICS.

- Project: *Łukasiewicz logic, MV-algebras and duality*.
- Supervisor: Luca Spada.

### EDUCATION

#### **PhD • Mathematics**

2017.09.25 – 2021.04.09

UNIVERSITY OF MILAN (ITALY), DEPARTMENT OF MATHEMATICS.

- Thesis: *On the axiomatisability of the dual of compact ordered spaces*.
- Supervisor: Vincenzo Marra.
- Grade: Excellent with honours.
- Abstract published in the Bulletin of Symbolic Logic. DOI: 10.1017/bsl.2021.54.

## Publications

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### PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

1. M. Abbadini, G. Bezhanishvili, L. Carai.  
On the lack of colimits in various categories of BAOs and Heyting algebras.  
***Theory and Applications of Categories***. Accepted. Preprint at arXiv:2507.07489.
2. M. Abbadini, L. Spada.  
The unification type of Łukasiewicz logic with a bounded number of variables.  
***The Journal of Symbolic Logic***. In press. DOI: 10.1017/jsl.2025.10149. Preprint at arXiv:2504.19011.
3. M. Abbadini, V. Marra, L. Spada.  
Stone–Gelfand duality for metrically complete lattice-ordered groups.  
***Advances in Mathematics***. (2025) 461:110067. DOI: 10.1016/j.aim.2024.110067.
4. M. Abbadini, I. Di Liberti.  
Duality for coalgebras for Vietoris and monadicity.  
***The Journal of Symbolic Logic***. (2025) 90(3):1022–1055. DOI: 10.1017/jsl.2024.14.
5. M. Abbadini, P. Aglianò, S. Fioravanti.  
Varieties of MV-monoids and positive MV-algebras.  
***Journal of Algebra***. (2025) 677:690–744. DOI: 10.1016/j.jalgebra.2025.04.027.
6. M. Abbadini, F. Guffanti.  
Quantifier-free formulas and quantifier alternation depth in doctrines.  
***Journal of Pure and Applied Algebra***. (2025) 229(8):108004. DOI: 10.1016/j.jpaa.2025.108004.
7. M. Abbadini, D. Hofmann.  
Barr-coexactness for metric compact Hausdorff spaces.  
***Theory and Applications of Categories***. (2025) 44(6):196–226. URL: <http://www.tac.mta.ca/tac/volumes/44/6/44-06abs.html>.
8. M. Abbadini, G. Bezhanishvili, L. Carai.  
Vietoris endofunctor for closed relations and its de Vries dual.  
***Topology Proceedings***. (2024) 64:213–250. URL: <https://topology.nipissingu.ca/tp/reprints/v64>.
9. M. Abbadini, G. Bezhanishvili, L. Carai.  
MacNeille completions of subordination algebras.  
***Cahiers de Topologie et Géométrie Différentielle Catégoriques***. (2024) 65(2):151–199. URL: <https://cahierstgdc.com/wp-content/uploads/2024/04/ABBADINI-A1-LXV-2.pdf>.

10. M. Abbadini, G. Bezhanishvili, L. Carai.  
A generalization of de Vries duality to closed relations between compact Hausdorff spaces.  
**Topology and its Applications.** (2023) 337:108641. DOI: 10.1016/j.topol.2023.108641.
11. M. Abbadini, L. Reggio.  
Barr-exact categories and soft sheaf representations.  
**Journal of Pure and Applied Algebra.** (2023) 227(12):107413. DOI: 10.1016/j.jpaa.2023.107413.
12. M. Abbadini, P. Jipsen, T. Kroupa, S. Vannucci.  
A finite axiomatization of positive MV-algebras.  
**Algebra Universalis.** (2022) 83:28. DOI: 10.1007/s00012-022-00776-3.
13. M. Abbadini, L. Spada.  
Are locally finite MV-algebras a variety?  
**Journal of Pure and Applied Algebra.** (2022) 226(4):106858. DOI: 10.1016/j.jpaa.2021.106858.
14. M. Abbadini.  
Equivalence à la Mundici for commutative lattice-ordered monoids.  
**Algebra Universalis.** (2021) 82:45. DOI: 10.1007/s00012-021-00736-3.
15. M. Abbadini, L. Reggio.  
On the axiomatisability of the dual of compact ordered spaces.  
**Applied Categorical Structures.** (2020) 28(6):921–934. DOI: 10.1007/s10485-020-09604-y.
16. M. Abbadini.  
Operations that preserve integrability, and truncated Riesz spaces.  
**Forum Mathematicum.** (2020) 32(6):1487–1513. DOI: 10.1515/forum-2018-0244.
17. M. Abbadini.  
Dedekind  $\sigma$ -complete  $\ell$ -groups and Riesz spaces as varieties.  
**Positivity.** (2020) 24(4):1081–1100. DOI: 10.1007/s11117-019-00718-9.
18. M. Abbadini.  
The dual of compact ordered spaces is a variety.  
**Theory and Applications of Categories.** (2019) 34:1401–1439. URL: <http://www.tac.mta.ca/tac/volumes/34/44/34-44abs.html>.

## PROCEEDINGS IN INTERNATIONAL PEER-REVIEWED CONFERENCES

19. M. Abbadini, F. Di Stefano, L. Spada.  
Unification in Łukasiewicz logic with a finite number of variables.  
In **Information Processing and Management of Uncertainty in Knowledge-Based Systems.** (2020) 1239:622–633.  
Springer International Publishing. DOI: 10.1007/978-3-030-50153-2\_46.

## PREPRINTS

20. M. Abbadini, D. Mundici.  
Unital Specker  $\ell$ -groups and boolean multispaces.  
Under review. Preprint at arXiv:2508.21500.

21. M. Abbadini, A. Jung.  
On the symmetry behind duality.  
Under review. Preprint at arXiv:2507.18245.
22. M. Abbadini, A. Přenosil.  
Duality for finitely valued algebras.  
Under review. Preprint at arXiv:2505.11490.
23. M. Abbadini, F. Guffanti.  
Freely adding one layer of quantifiers to a Boolean doctrine.  
Under review. Preprint at arXiv:2410.16328.

## Talks

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### INVITED PLENARY TALKS AT INTERNATIONAL CONFERENCES

1. Topology, Algebra, and Categories in Logic. Kraków (Poland). (2026.07.20 – 2026.07.24)  
*TBA.*
2. Boolean Algebras, Lattices, Universal Algebra, Set Theory, Topology. University of North Carolina at Charlotte (USA). (2023.05.17)  
*Positive MV-algebras.*

### INVITED TALKS AT SPECIAL SESSIONS IN INTERNATIONAL CONFERENCES

3. Association for Symbolic Logic North American Annual Meeting. Iowa State University (USA). Invited to the Special Session on Algebraic Logic. (2024.05.15)  
*A duality for metrically complete lattice-ordered groups.*

### INVITED TALKS AT INTERNATIONAL WORKSHOPS

4. International Workshop on Topological Methods in Logic, Ivane Javakhishvili State University (Georgia). (2025.06.25)  
*The unification type of Łukasiewicz logic with a bounded number of variables.*
5. Third Algebra Week (2023). University of Siena (Italy). (2023.07.05)  
*Positive subreducts of MV-algebras.*
6. Duality, Order, (Co)algebras, Topology and Related topics. Online. (2021.07.07)  
*Unital commutative distributive  $\ell$ -monoids and their unit intervals.*
7. Third Algebra Week (2020). University of Siena (Italy). (2020.05) (Cancelled due to COVID-19 pandemic.)  
*Equivalence à la Mundici for lattice-ordered monoids.*

### INVITED TALKS AT NATIONAL WORKSHOPS

8. Southern and Midlands Logic Seminar. University of Birmingham (UK). (2023.12.13)  
*Natural dualities.*

## CONTRIBUTED TALKS AT INTERNATIONAL PEER-REVIEWED CONFERENCES

9. Peripatetic Seminar on Sheaves and Logic. University of Nottingham (UK). (2026.03.29)  
*The doctrinal Herbrand's theorem and its Stone dual.*
10. ItaCa Workshop. University of Milan (Italy). (2025.12.22)  
*The doctrinal Herbrand's theorem and its Stone dual.*
11. Australasian Association for Logic Conference. University of Queensland (Australia, online). (2025.11.03)  
*Natural duality for finitely valued algebras.*
12. Category Theory Octoberfest. Online. (2025.10.25)  
*On the category of metric compact Hausdorff spaces.*
13. Logic, Algebra and Truth Degrees. University of Siena (Italy). (2025.07.25)  
*The algebraic structure of spaces of integrable functions.*
14. Logic Colloquium. TU Wien (Austria). (2025.07.07)  
*An algebraic version of Herbrand's theorem.*
15. Workshop on General Algebra. Bern (Switzerland). (2025.06.21)  
*The algebraic structure of spaces of integrable functions.*
16. Peripatetic Seminar on Sheaves and Logic. Tallinn University of Technology (Estonia). (2025.05.03)  
*Barr-coexactness of metric compact Hausdorff spaces.*
17. Summer Conference on Topology and its Applications. University of Coimbra (Portugal). (2024.07.09)  
*Vietoris endofunctor for closed relations.*
18. Topology, Algebra, and Categories in Logic. University of Barcelona (Spain). (2024.07.04)  
*Vietoris endofunctor for closed relations and its de Vries dual.*
19. Workshop on General Algebra. South-West University "Neofit Rilsk" (Bulgaria). (2024.02.10)  
*Natural dualities with an infinite dualizing object.*
20. Modalities in Substructural Logics: Theory, Methods and Applications. Vienna (Austria). (2023.09.29)  
*Stone duality for finitely valued algebras with a near-unanimity term.*
21. Peripatetic Seminar on Sheaves and Logic. University of Palermo (Italy). (2023.09.17)  
*Soft sheaf representations in Barr-exact categories.*
22. Logic, Algebra and Truth Degrees. Ivane Javakhishvili State University (Georgia). (2023.09.11)  
*Free extensions.*
23. Logic Colloquium. University of Milan (Italy). (2023.06.08)  
*Jónsson-Tarski duality beyond dimension 0.*
24. ItaCa Workshop. University of Pisa (Italy). (2022.12.21)  
*Comonadicity over Set of coalgebras of Vietoris functors.*
25. Topology, Algebra and Categories in Logic. University of Coimbra (Portugal). (2022.06.24)  
*An approach à la de Vries for compact Hausdorff spaces and closed relations.*

26. Category Theory. University of Genoa (Italy). (2021.09.01)  
*The opposite of the category of compact ordered spaces is monadic over the category of sets.*
27. Boolean Algebras, Lattices, Universal Algebra, Set Theory, Topology. New Mexico State University (USA, online). (2021.06.13)  
*The opposite of the category of compact ordered spaces as an infinitary variety.*
28. Workshop on General Algebra. University of Siena (Italy). (2020.02.21)  
*Priestley duality above dimension zero: algebraic axiomatisability of the dual of compact ordered spaces.*
29. Topology, Algebra, and Categories in Logic. University of Nice (France). (2019.06.20)  
*Norm-complete Abelian  $\ell$ -groups: equational axiomatization.*
30. PhDs in Logic. University of Bern (Switzerland). (2019.04.25)  
*Stone-Gelfand duality for groups.*
31. Boolean Algebras, Lattices, Universal Algebra, Set Theory, Topology. University of Denver (USA). (2018.08.10)  
*Operations that preserve integrability, and truncated Riesz spaces.*

#### CONTRIBUTED TALKS AT NATIONAL PEER-REVIEWED CONFERENCES

32. Meeting of the Italian Association of Logic and its Applications. University of Udine (Italy). (2024.09.04)  
*Vietoris endofunctor for closed relations and its de Vries dual.*
33. Meeting of the Italian Association for Logic and its Applications. Vanvitelli University (Italy). (2023.09.13)  
*Duality for metrically complete Abelian  $\ell$ -groups.*

#### TALKS AT LOCAL SEMINARS

34. University of Louvain (Belgium). (2025.10.29)  
*Bridging Ordered Groups and Topology: Representation Theorems and Categorical Dualities.*
35. University of Birmingham (UK). (2025.06.05)  
*On de Groot and Lawson self-dualities.*
36. University of Birmingham (UK). (2025.05.08)  
*Freely adding a layer of Heyting implication to a distributive lattice.*
37. University of Salerno (Italy). (2025.04.24)  
*An algebraic version of Herbrand's theorem.*
38. University of Louvain (Belgium). (2025.01.07)  
*Coalgebraic flavour of metric compact Hausdorff spaces.*
39. University of Milan (Italy). (2024.10.31)  
*Quantifier-free fragments and quantifier alternation depth in doctrines.*
40. University of Manchester (UK). (2024.10.09)  
*Quantifier-free fragments and quantifier alternation depth in doctrines.*
41. University of Padua (Italy). (2024.05.02)  
*Quantifier alternation depth in universal Boolean doctrines.*

42. University of Birmingham (UK). (2023.11.23)  
*An abstraction of the unit interval with Euclidean topology and denominators.*
43. University of Louvain (Belgium). (2023.11.13)  
*Soft sheaf representations in Barr-exact categories.*
44. University of Bern (Switzerland). (2023.04.20)  
*Positive MV-algebras.*
45. University of the Witwatersrand (South Africa). (2023.03.30)  
*Unique embeddability property.*
46. Paris-Saclay University (France, online). (2023.01.04)  
*An abstraction of the unit interval with denominators.*
47. University of Padua (Italy, online). (2022.12.05)  
*Dualities for compact Hausdorff spaces.*
48. Université Paris Cité (France). (2022.11.25)  
*A generalization of de Vries duality to closed relations between compact Hausdorff spaces.*
49. University of Amsterdam (Netherlands). (2022.05.11)  
*Free extension for universal algebras.*
50. New Mexico State University (USA, online). (2022.03.14)  
*Free extension for universal algebras.*
51. University of Caserta (Italy). (2022.02.14)  
*Positive MV-algebras.*
52. University of Denver (USA, online). (2021.05.05)  
*Is the category of locally finite MV-algebras equivalent to an equational class?*
53. University of Denver (USA, online). (2020.05.08)  
*Equivalence à la Mundici for lattice-ordered monoids.*
54. University of Salerno (Italy). (2020.01.23)  
*Equivalence à la Mundici for lattice-ordered monoids.*
55. University of Nice (France). (2019.10.03)  
*On concrete dual adjunctions.*
56. Czech Academy of Sciences (Czech Republic). (2019.02.06)  
*The dual of compact ordered spaces is a variety.*
57. University of Salerno (Italy). (2018.12.13)  
*Archimedean Cauchy-complete MV-algebras form a variety.*
58. University of Milan (Italy). (2018.07.06)  
*Operations that preserve integrability: characterization and related algebraic structures.*

## OTHER TALKS AND POSTERS



59. Autumn school “Proof and Computation”, Fischbachau (Germany). 5-minute lightning talk. (2024.09.19)  
*Algebras of logic, step-by-step.*
60. Congresso dell’Unione Matematica Italiana, University of Pavia (Italy). Poster. (2019.09.02)  
*Dualità di Stone-Gelfand per i gruppi.*

## Supervision & Teaching

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### SUPERVISION

- 2025.09.01 – **Member of PhD support committee (*comité d’accompagnement*).** *University of Louvain (Belgium), Research Institute in Mathematics and Physics.*  
 present
  - Role: advise and support the PhD student and take part in the confirmation review in the second year of the PhD programme.
  - PhD Student: François Cayphas.
- 2022.10.24 **Co-supervision of Bachelor’s thesis.** *University of Salerno (Italy), Department of Mathematics.*
  - Thesis: *Universal constructions in Algebra and in Category Theory.*
  - Student: Chiara Carratù.
- 2021.09.28 **Co-supervision of Bachelor’s thesis.** *University of Salerno (Italy), Department of Mathematics.*
  - Thesis: *Lawvere’s theories: an algebraic approach to Universal Algebra.*
  - Student: Maria Bevilaqua.

### TEACHING

- 2025/26, Spr. **Course holder.** *University of Louvain (Belgium), Department of Mathematics.*
  - Course: *Categorical Dualities in Logic.*
  - Level: MSc in Mathematics.
  - Tasks: lectures, office hours, preparation and assessment of oral examinations.
  - 22.5 h.
- 2022/23, Fall **Teaching assistant.** *University of Salerno (Italy), Department of Chemistry and Biology.*
  - Course: *Mathematical Methods for Environmental Sciences.*
  - Level: BSc in Environmental Sciences.
  - Tasks: exercise classes.
  - 20 h.
- 2022/23, Fall **Teaching assistant.** *University of Salerno (Italy), Department of Mathematics.*
  - Course: *Mathematical Logic.*
  - Level: BSc in Mathematics.
  - Tasks: exercise classes.
  - 20 h.

2021/22, Fall **Adjunct professor.** *University of Salerno (Italy), Department of Chemistry and Biology.*

- Course: *Mathematics 1.*
- Level: BSc in Environmental Sciences.
- Co-taught with Serafina Lapenta.
- Tasks: classes, office hours, preparation and evaluation of written exams, conducting oral examinations.
- 16 h.

2021/22, Fall **Teaching assistant.** *University of Salerno (Italy), Department of Mathematics.*

- Course: *Mathematical Logic.*
- Level: BSc in Mathematics.
- Tasks: exercise classes.
- 20 h.

2019/20, Fall **Teaching assistant.** *University of Milan (Italy), Department of Mathematics.*

- Course: *Algebra 2.*
- Level: BSc in Mathematics.
- Tasks: exercise classes, office hours, exam assistant.
- 35 h.

Additionally, I completed the Italian **teacher-training program “24 CFU”**: 24 ECTS (university credits), covering didactic methods and technologies, educational psychology and pedagogy (University of Milan, 2019/20).

## STUDENT-ORIENTED SEMINARS AND MINI-COURSES

### **Seminar for PhD students and postdoctoral researchers in Computer Science.**

University of Birmingham (UK), School of Computer Science. (2025.02.25)

*The algebras of classical first-order logic.*

### **Seminar for PhD students and postdoctoral researchers in Computer Science.**

University of Birmingham (UK), School of Computer Science. (2025.02.11)

*The sequent calculus whose semantics admits the empty structure.*

### **Mini-course (3h total) for PhD students and postdoctoral researchers in Computer Science.**

University of Birmingham (UK), School of Computer Science. (2024.10.17 and 2024.10.24)

*Stone duality.*

### **Seminar for graduate students in Mathematics.**

New Mexico State University (USA), online. (2022.03.24)

*Lawvere’s algebraic theories.*

### **Seminar for Bachelor students in Mathematics.**

University of Salerno (Italy). (2021.05.28)

*The algebraic approach to Constraint Satisfaction Problems (CSP).*

### **Seminar for Bachelor students in Mathematics.**

University of Milan (Italy). (2019.12.05)

*The Rubik’s Cube. Ideas to create a solution strategy.*

## Outreach

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**Outreach blog post** on *Maddmaths!* (Italian outreach platform in mathematics) about Stone duality and its recent developments. M. Abbadini, *Attraverso lo specchio*. Link. (2025.05.06)

**Organizer and volunteer in educational events for the general public**, illustrating through games the mathematical mechanisms of gambling and the systematic disadvantage for the player. *Slotmob* (2015.06.05) and *Apericena d'azzardo* (2014.04.11).

## Grants & Awards

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### GRANTS AND FELLOWSHIPS

- 2025–2028 **FSR Incoming Postdoctoral Fellowship.** Awarded by the University of Louvain (Belgium). 3 years.
- 2023–2025 **Marie Skłodowska–Curie Postdoctoral Fellowship (MSCA PF).** (220,908.48€; 187,096.00£.) Awarded after EU MSCA evaluation; funded by UK Research and Innovation under the Horizon Europe funding guarantee. Host institution: University of Birmingham (UK), School of Computer Science. Scientific Area: Mathematics. Grant EP/Y015029/1. Project “DCPOS”.

### NATIONAL QUALIFICATIONS

- 2024 **Italian national qualification** (Abilitazione Scientifica Nazionale, Seconda Fascia, Competition Sector 01/A1 – Mathematical Logic and Complementary Mathematics).
- 2023 **French national qualification** as maître de conférences (associate professor) in Mathematics.
- 2023 **French national qualification** as maître de conférences (associate professor) in Computer Science.

### SCHOLARSHIPS AND AWARDS

- 2023 **Scholarship to conduct one month of research abroad.**  
Awarded by the Italian National Institute of High Mathematics ‘Francesco Severi’ (INDAM). Declined, as a Marie Skłodowska–Curie Postdoctoral Fellowship was awarded for the same period.
- 2017–2020 **PhD scholarship.**  
Three years, fully funded.
- 2016/17, Fall **Erasmus scholarship.**
- 2015/16, Spr. **Erasmus scholarship.**

2012.09.11     **INDAM merit award for outstanding first-year mathematics students.**  
Awarded by the Italian National Institute of High Mathematics ‘Francesco Severi’ (INDAM).

## Participation in research projects

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**DCPOS: Dualities via ComPactness, Openness and their Symmetry** 2023.09 – 2025.08

UNIVERSITY OF BIRMINGHAM (UK)

Role: *Experienced Researcher*.

Marie Skłodowska–Curie Postdoctoral Fellowship (MSCA PF), funded by UK Research and Innovation under the Horizon Europe funding guarantee. Grant EP/Y015029/1.

**MOSAIC: Modalities in Substructural Logics: Theory, Methods and Applications** 2021.12 – 2023.09

UNIVERSITY OF SALERNO (ITALY)

Role: *Team member*.

Rise-MSCA-2020, funded by the European Union. Project 101007627.

**Theory and applications of resource sensitive logics** 2019.12 – 2022.12

UNIVERSITY OF SALERNO (ITALY)

Role: *Team member*.

PRIN, funded by the Italian Ministry of University and Research. Project 20173WKCM5.

## Organisation of conferences and seminars

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**Series of seminars in logic** 2023.04.17 – 2023.06.17

UNIVERSITY OF SALERNO (ITALY), DEPARTMENT OF MATHEMATICS

Role: *organizer*.

6 seminars + 1 final workshop.

**Conference “LATD 2022 and MOSAIC 2022 Kick Off Meeting”** 2022.09.05 – 2022.09.10

PAESTUM (ITALY)

Role: *member of the organizing committee*.

International conference (84 participants).

**Workshop “PhD<sup>2</sup>ays 2020”** 2020.12.09 – 2020.12.11

UNIVERSITY OF MILAN (ITALY), ONLINE

Role: *member of the organizing committee*.

Local workshop, in which PhD students present their research to postgraduate students (~ 35 participants).

## Visits

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### LONG SECONDMENTS ( $\geq 1$ MONTH)

2023      **University of the Witwatersrand (South Africa).** Visiting C. van Alten. 1 month.

2022      **Chapman University (USA)** Visiting M. A. Moshier. 2 months.

### SHORT RESEARCH VISITS ( $< 1$ MONTH)

2025      **Czech Academy of Sciences (Czech Republic).** Visiting A. Přenosil and W. Poiger. 5 days.

2025      **University of Louvain (Belgium).** Visiting M. Gran. 4 days.

2024      **University of Aveiro (Portugal).** Visiting D. Hofmann. 5 days.

2024      **University of Luxembourg (Luxembourg).** Visiting F. Guffanti. 3 days.

2024      **University of Louvain (Belgium).** Visiting M. Gran. 2 days.

2023      **University of Bern (Switzerland).** Visiting G. Metcalfe. 3 days.

2023      **University of Aveiro (Portugal).** Visiting D. Hofmann. 8 days.

2022      **Université Paris Cité (France).** Visiting S. van Gool. 3 days.

2022      **Oxford University (UK).** Visiting L. Reggio. 5 days.

2020      **University of Salerno (Italy).** Visiting L. Spada. 4 days.

2019      **University of Nice (France).** Visiting W. Fussner. 3 days.

2019      **Czech Academy of Sciences (Czech Republic).** Visiting L. Reggio. 4 days.

2018      **University of Salerno (Italy).** Visiting L. Spada. 6 days.

### VISITS HOSTED

2025      **L. Spada.** At the University of Louvain (Belgium). 4 days.

2025      **R. N. Almeida.** At the University of Birmingham (UK). 2 weeks.

2024      **S. van Gool.** At the University of Birmingham (UK). 5 days.

2023      **A. Přenosil.** At the University of Salerno (Italy). 5 days.

2023      **F. Guffanti.** At the University of Salerno (Italy). 2 days.

## Schools and courses

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2024.09      **Proof and Computation** Autumn School. Fischbachau (Germany).

2024.06      **Topology, Algebra, and Categories in Logic** Summer School. Barcelona (Spain).

2024.04      **Midlands Graduate School.** Leicester (UK).

2023/24, Spr. **Advanced Functional Programming.** Course (with Agda). University of Birmingham (UK).

2023/24, Fall **Functional Programming.** Course (with Haskell). University of Birmingham (UK).

2023/24, Fall **An introduction to the theory of profinite groups.** Course. University of Salerno (Italy).

2022.06      **Topology, Algebra, and Categories in Logic** Summer School. Praia de Mira (Portugal).

2019.06      **Topology, Algebra, and Categories in Logic** Summer School. Île de Porquerolles (France).

## Professional memberships

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Member of the Italian Association for Logic and its Applications (AILA).

## Languages

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<b>Italian</b>	<b>C2.</b> (Mother tongue.)
<b>English</b>	<b>C1.</b>
<b>French</b>	<b>B2.</b> (B2 course completed at UCLouvain, 2025/26. Now enrolled in the C1 course.)
<b>Spanish</b>	<b>B2.</b>
<b>German</b>	<b>A2.</b> (2016/10/12: B2 certificate issued by University of Stuttgart, Germany.)