Marianna Girlando

Curriculum Vitae et Studiorum

FULL NAME	Marianna Girlando
EMAIL	m.girlando@uva.nl
WEBSITE	www.mariannagirlando.com

Current position

since Sept. 2022	**MSCA Postdoctoral Fellow**, ILLC, University of Amsterdam.
	Under the mentorship of Yde Venema and Bahareh Afshari, with the project CYDER, *CYclic DErivations for Recursive operators* (project ID 101064105, HORIZON-MSCA-2021-PF-01-01).

Professional experience

March 2021 – August 2022	**Postdoctoral researcher** (*Research Fellow in Proof Theory*), School of Computer Science, University of Birmingham. Under the supervision of Anupam Das, and within the UKRI project *Structure vs Invariants in Proofs*[1].
Nov. 2019 – February 2021	**Postdoctoral researcher**, équipe Partout, INRIA Saclay, Île-de-France & Laboratoire LIX, École Polytechnique. Under the supervision of Lutz Straßurger. Position funded by an INRIA research grant.
January 2020 – Juin 2020	**Contrat de vacation** (teaching position), Université Paris 1 Panthéon-Sorbonne, UFR de Philosophie.
October 2018 – August 2019	**ATER** part-time (teaching position), Département d'Informatique et Interactions, Aix-Marseille Université.
Nov. 2018 – August 2019	**Research position**, part-time, *Faculty of Arts*, Helsinki Univeristy (Finland), within the project *Modalities and conditionals: systematic and historical studies* (Project no. 1308664, Academy of Finland).
October 2017 – September 2018	**PhD student with teaching duties**, Département d'Informatique et Interactions, Aix-Marseille Université.

---

[1] https://gtr.ukri.org/projects?ref=MR%2FS035540%2F1

Formation

October 2015 – February 2019	**PhD in Computer Science**, Aix-Marseille Université, Laboratoire LIS, équipe LIRICA (France). Under the supervision of Nicola Olivetti. **PhD in Philosophy**, *cotutelle* agreement with the Faculty of Arts, Helsinki University (Finland). Under the supervision of Sara Negri. Title of the PhD thesis: *On the proof theory of conditional logics* The thesis discussion took place in Marseille, on 8 February 2019 The thesis won the **Prix de Thèse 2020**, Aix-Marseille Université[2]
September 2012 – April 2015	**Master degree in Logic, philosophy and history of sciences**, Università degli Studi di Firenze (Italy). Master thesis : *On the proof theory of intuitionistic logic*. Under the supervision of Pierluigi Minari. The thesis discussion took place in Florence, on 23 April 2015, with grade 110/110 *summa cum laude*.
October 2009 – September 2012	**Bachelor degree in Philosophy**, Università degli Studi di Pavia (Italy). Bachelor thesis (in italian): *Agente individuale, agente logico e ragionamento non monotono* (*Individual agent, logical agent and non-monotonic reasoning*). Under the supervision of Pierluigi Minari. The discussion took place in Pavia, on 20 September 2012, with grade 110/110 *summa cum laude*.
July 2009	**High-school diploma in classical studies** (*Maturità classica*) Liceo Classico Gian Domenico Romagnosi, Parma (Italy).

Titles, grants prizes

August 2022	**IJCAR 2022 Best Paper Award**, for the paper "Cyclic Proofs, Hypersequents, and Transitive Closure Logic", joint work with Anupam Das.
March 2022	**Marie Skłodowska Curie Postdoctoral Fellowship**, won with the project CYDER (*CYclic DErivations for Recursive operators*, project ID 101064105, HORIZON-MSCA-2021-PF-01-01). The project will be carried out at the ILLC, University of Amsterdam, under the mentorship of Yde Venema and Bahareh Afshari. Duration: Sept. 2022 - Aug. 2024.
March 2021	**Qualification Section 72** (French qualification for teaching): qualified as *Maître de Conférences* in the CNU Section *Épistémologie et histoire des sciences et des techniques*.
March 2021	**Qualification Section 17** (French qualification for teaching): qualified as *Maître de Conférences* in the CNU Section *Philosophie*.
March 2020	**Qualification Section 27** (French qualification for teaching): qualified as *Maître de Conférences* in the CNU Section *Informatique*.
July 2020	**Prix de Thèse 2020**, Aix-Marseille Université[2].
Nov. 2019 – February 2021	**Postdoctoral research grant INRIA**, research grant that funded the postodctoral position at INRIA Saclay.

---

[2] https://www.univ-amu.fr/system/files/2020-12/DIRCOM_AMU-PRIX_DE_THESE_2020.pdf

PUBLICATIONS

Books

- Marianna Girlando. *On the proof theory of conditional logics.* Thèse de doctorat. University of Helsinki, Helsinki (2019). URI: https://helda.helsinki.fi/handle/10138/288187

Articles published in journals with selection committee

- Marianna Girlando, Björn Lellmann, Nicola Olivetti, Stefano Pesce, Gian Luca Pozzato. Calculi, countermodel generation and theorem prover for strong logics of counterfactual reasoning. In: *Journal of Logic and Computation*, vol. 32-2, pages 233–280, (2022). DOI: https://doi.org/10.1093/logcom/exab084

- Marianna Girlando, Sara Negri, Nicola Olivetti. Uniform labelled calculi for preferential conditional logics based on neighbourhood semantics. In: *Journal of Logic and Computation*, vol. 31-3, pages 947-997 (2021). DOI: https://doi.org/10.1093/logcom/exab019

- Marianna Girlando, Sara Negri, Nicola Olivetti, Vincent Risch. Conditional beliefs: from neighbourhood semantics to sequent calulus. In: *Review of Symbolic Logic*, Cambridge University Press, vol. 11-4, pages 736 – 779 (2018). DOI: https://doi.org/10.1017/S1755020318000023

Contributions published in the proceedings of conferences with selection committee

- Anupam Das, Marianna Girlando. Cyclic proofs, hypersequents, and transitive closure logic. In: J. Blanchette, L. Kovács, D. Pattinson (eds), *Automated Reasoning*. IJCAR 2022. Lecture Notes in Computer Science, vol 13385, Springer, pages 509-528 (2022).
  DOI: https://doi.org/10.1007 /978-3-031-10769-6_30 (the link is open access)

- Tiziano Dalmonte, Marianna Girlando. Comparative plausibility in neighbourhood models: axiom systems and sequent calculi. In: D. Fernández-Duque, A. Palmigiano, S. Pinchinat (eds.), *Advances in Modal Logic*, College Publications, vol. 14, pages 305-327 (2022). ISBN: https://www.collegepublications.co.uk/aiml/?00011

- Marianna Girlando, Björn Lellmann, Nicola Olivetti, Gian Luca Pozzato, Stefano Pesce. Theorem proving for Lewis logics of counterfactual reasoning. In: F. Calimeri, S. Perri, E. Zumpano (eds.), Proceedings of the 35th Italian Conference on Computational Logic - CILC 2020, Rende, Italy, October 13-15, 2020. CEUR Workshop Proceedings, pages 199-213 (2020). URN: http://ceur-ws.org/Vol-2710

- Marianna Girlando, Lutz Straßburger. MOIN: a nested sequent theorem prover for intuitionistic modal logics (System Description). In: N. Peltier, V. Sofronie-Stokkermans (eds.), *Automated reasoning*. IJCAR 2020. Lecture Notes in Computer Science, vol 12167. Springer, Cham, pages 398-407 (2020). DOI: https://doi.org/10.1007/978-3-030-51054-1_25

- Marianna Girlando, Sara Negri, Giorgio Sbardolini. Uniform labelled calculi for conditional and counterfactual logics. In : R. Iemhoff, M. Moortgat, R. de Queiroz (eds.), *Logic, Language, Information, and Computation*, 26th International Workshop, WoLLIC 2019. Springer, Berlin, Heidelberg, pages 248-263 (2019). DOI: https://link.springer.com/chapter/10.1007/978-3-662-59533-6_16

- Marianna Girlando, Björn Lellman, Nicola Olivetti. Nested sequents for the logic of conditional belief. In: F. Calimeri, N. Leone, M. Manna (eds.), *Logics in Artificial Intelligence*, JELIA 2019. Lecture Notes in Computer Science, vol. 7519, Springer, Berlin, Heidelberg, pages 709-725 (2019). DOI: https://link.springer.com/chapter/10.1007/978-3-642-33353-8_2

- Marianna Girlando, Sara Negri, Nicola Olivetti. Counterfactual logics: labelled and internal calculi, two faces of the same coin?. In: G. Bezhanishvili, G. D'Agostino, G. Metcalfe, T. Studer (eds.), *Advances in Modal Logic*, College Publications, vol. 12, pages 291-310 (2018). DOI: http://www.aiml.net/volumes/volume12

- Marianna Girlando, Björn Lellman, Nicola Olivetti, Gian Luca Pozzato, Quentin Vitalis. VINTE: an implementation of internal calculi for Lewis' logics of counterfactual reasoning. In: R. Schmidt, C. Nalon (eds.), *Automated Reasoning with Analytic Tableaux and Related Methods*, TABLEAUX 2017, Lecture Notes in Computer Science, vol. 10501, Springer, pages 149-159 (2017). DOI: https://link.springer.com/chapter/10.1007/978-3-319-66902-1_9

- Marianna Girlando, Björn Lellman, Nicola Olivetti, Gian Luca Pozzato. Hypersequent calculi for Lewis' conditional logics with uniformity and reflexivity. In: R. Schmidt, C. Nalon (eds.), *Automated Reasoning with Analytic Tableaux and Related Methods*, TABLEAUX 2017, Lecture Notes in Computer Science, vol. 10501, Springer, pages 131-148 (2017). DOI: https://link.springer.com/chapter/10.1007/978-3-319-66902-1_8

- Marianna Girlando, Björn Lellman, Nicola Olivetti, Gian Luca Pozzato. Standard sequent calculi for Lewis' logics of counterfactuals. In: L. Michael, A. Kakas (eds.), *Logics in Artificial Intelligence*. JELIA 2016. Lecture Notes in Computer Science, vol. 10021, Springer, Berlin, Heidelberg, pages 272-287 (2016). DOI: https://link.springer.com/chapter/10.1007/978-3-319-48758-8_18

- Marianna Girlando, Sara Negri, Nicola Olivetti, Vincent Risch. The logic of conditional belief: neighbourhood semantics and sequent calculus. In: L. Beklemishev, S. Demri, A. Màté (eds.), *Advances in Modal Logics*, College Publications, vol. 11, pp 322-341 (2016). DOI: http://www.aiml.net/volumes/volume11/

Other publications

- Marianna Girlando. La New Logic: le strategie cognitive dell'agente individuale. (*The New Logic: cognitive strategies of the individual agent*). In: Introduzione alla New Logic, L. Magnani editor, Il Melangolo, Genova (2013). ISBN: https://ilmelangolo.com/prodotto/introduzione-alla-new-logic/
  [participation to a edited book without selection committee]

Teaching

Academic year 2022/2023:

- **Inleiding Wiskundige Logica** (*Introduction to Mathematical Logic*), course coordinator, course for first year students in Mathematics. University of Amsterdam, **forthcoming** (April-May 2023).

- **Labelled sequent calculi** (3 hours), invited lecturer at the 4th International Autumn School on Proof Theory (**TPS School 2022**), Utrecht, November 7-10, 2022.
  Webpage of the school: https://www.proofsociety.org/autumn-school-2022/

Academic year 2021/2022:

- **Proof theory** (5 hours course + 4 hours exercises), co-lecturer (with Gianluca Curzi) of the introductory course in proof theory at the **Midlands Graduate School 2022**. Nottingham, 10-14 April 2022. Webpage of the school: https://www.cs.nott.ac.uk/ psznk/events/mgs22.html

- **Algorithms and Complexity** (approx. 30 hours), teaching assistant with grading duties, course for third year Bachelor students and first year Master students in Computer Science. Course coordinators: Rajesh Chitnis and Anupam Das. University of Birmingham, February – May 2022.

Academic year 2019/2020 :

- **Logique 2** (26 hours), course coordinator, course for second year Bachelor students in Philosophy. Université Paris 1 - Panthéon-Sorbonne, January – June 2020.

Academic year 2018/2019 :

- **Programmation 1** (18 hours TD + 24 hours TP[3]), teaching assistant, exercise sessions for first year Bachelor students in Computer Science. Course coordinator: Julien Lefevre. Aix-Marseille Université, January – June 2019.

- **Introduction à l'informatique** (44 hours TD), teaching assistant, exercise sessions for first year Bachelor students in Computer Science. Course coordinator: Benjamin Monmenge and Antonio Enrico Porreca. Aix-Marseille Université, September – December 2018.

Academic year 2017/2018:

- **Projet Algorithmique** (12 hours TD + 44 hours TP), teaching assistant, exercise sessions for second year Bachelor students in Computer Science. Course coordinator: Laurent Tichit. Aix-Marseille Université, January – June 2018.

Dissemination activity

- **Circoli viziosi e programmi virtuosi** (*Vicious circles and virtuous programs*, in italian), outreach event within the "Aperitivo di Logica" event organised by the AILA, Associazione Italiana di Logica e sue Applicazioni, Rome, 13 January 2023.

---

[3]TD, for *travaux dirigés*, are exercise sessions. TP, for *travaux pratiques*, are exercise sessions in which the students are in front of a computer and work on their code, with the help of the teaching assistant.

- **Fantastic conditionals and how to model them**, Facts and Snacks, seminars for the Computer Science Departement, University of Birmingham, 30 June 2022 (UK).

- **Des jeux, des mathématiques et quelques danses** (12 hours), tutor for *Stage Hyppocampe* IREM. Scientific workshop for high-school students organised by IREM, *Institut de Recherche pour l'Enseignement des Mathématiques*. Workshop coordinator: Olivier Ramaré. Aix-Marseille Université, 3 – 5 December 2018. https://www.touschercheurs.fr/evenement/stage-hippocampe-math-pour-le-lycee-val-de-durance-pertuis/.

- **Reconnaissance de formes** (12 heures), tutor for *Stage Hyppocampe* IREM. Scientific workshop for high-school students organised by IREM, *Institut de Recherche pour l'Enseignement des Mathématiques*. Workshop coordinator: Jean Sequeira. Aix-Marseille Université, 13 – 15 December 2017. https://hippocampe.irem.univ-mrs.fr/Stages/2017-12-13.

Conferences and workshops

Participation to conferences and workshops with presentation of a contribution published in peer-reviewed proceedings:

- **AiML 2022**, 13th International Conference on Advances in Modal Logic, 22-25 August, Rennes (France).
- **IJCAR 2022**, International Joint Conference on Automated Reasoning 2022, part of FLOC 2022, August 7-12, 2022, Haifa (Israel).
- **IJCAR 2020**, International Joint Conference on Automated Reasoning, 29 June - 6 July 2020 (online).
- **WoLLIC 2019**, 26th Workshop on Logic, Language, Information and Computation, 2-5 July 2019, Utrecht (Netherlands).
- **Jelia 2019**, European Conference on Logics in Artificial Intelligence, 7-11 May 2019, Rende (Italy).
- **AIML 2018**, 12th International Conference on Advances in Modal Logic, 27-31 August 2018, Bern (Switzerland).
- **TABLEAUX 2017**, 26th International Conference on Automated Tableaux and Related Methods, 26-29 September 2017, Brasília (Brasil).
- **AIML 2016**, 11th International Conference on Advances in Modal Logic, 30 August-2 September 2016, Budapest (Hungary).

Participation to workshops and meetings with presentation of a contribution:

- **4th International Workshop on Proof Theory**, organised by the Proof Society, 11-12 November 2022, Utrecht (Netherlands).
- **5th SILFS Postgraduate Conference on Logic and Philosophy of Science**, 13–17 June 2022, Milan (Italy).
- **StrIP Kick-Off Workshop**, workshop of the UKRI project *Structure vs. Invariants in Proofs*, 7-10 June 2022, Birmingham (UK).
- **Eight TICAMORE MEETING**, meeting of the project *Translating and Discovering Calculi for Modal and Related Logics*, 17-18 January 2022, online.

- **3rd Workshop on Proof Theory and its Applications**, organised by the Kurt Gödel Society, 29 November-3 December 2021, Funchal, Madeira (Portugal).
- **PM65**, an international workshop of logic to celebrate Pierluigi Minari's 65th birthday, 15 October 2021, Florence (Italy).
- **Sixth TICAMORE MEETING**, meeting of the project *Translating and Discovering Calculi for Modal and Related Logics*, 5-6 October 2020, Marseille (France).
- **WiL 2020**, 4th Women in Logic Workshop, workshop associated to the Paris Nord Summer of LoVe 2020, 30 June 2020 (online).
- **Proof theoretic semantics**, Assessment and Future Perspectives, Third Tübingen Conference on Proof-Theoretic Semantics, 27–30 March 2019, Tübingen (Germany).
- **EICNCL 2018** (*External and Internal Calculi for Non-Classical Logics*) and **ARQNL 2018** (*Automated Reasoning in Quantified Non-Classical Logics*), workshops associated to the Federated Logic Conference, Oxford, 18-19 July 2018 (UK).
- **Second SYSMICS Workshop**, workshop of the project *Substructural logics: semantics, proof theory, and applications*, 26–28 February 2018, Vienna (Austria).
- **First TICAMORE MEETING**, meeting of the project *Translating and Discovering Calculi for Modal and Related Logics*, 15-17 November 2017, Marseille (France).
- **SILFS 2017**, Triennial International Conference of the Italian Society for Logic and Philosophy of Science, 20-13 June 2017, Bologna (Italy).
- **Kick-off TICAMORE MEETING**, meeting of the project *Translating and Discovering Calculi for Modal and Related Logics*, 13-19 March 2017, Vienna (Austria).

Participation to workshops and meetings without presentation of a contribution:

- **ARQNL 2022**, 4th International Workshop on *Automated Reasoning in Quantified Non-Classical Logics*, associated with FLoC and IJCAR 2022, 11 August 2022, Haifa (Israel).
- **MOSAIC Kick Off Meeting**, meeting of the project *Modalities in Substructural Logic: Theory, Methods and Applications* 4-11 September 2022, Paestum (Italy).
- **NIETS 2022**, *New Ideas in Effects, Types, and Sharing*, 14-16 June 2022, Bath (UK).
- **Journées 2021 du GT Scalp**, meeting of the project *Structures formelles pour le CALcul et les Preuves*, 3-5 November 2021, Fontainebleau (France).
- **Seventh TICAMORE MEETING**, Translating and Discovering Calculi for Modal and Related Logics, 16-17 June 2021 (online).
- **Syntax meets semantics**, SYSYMICS 2019, 21-25 January 2019, Amsterdam (Netherlands).
- **Modalities, Conditionals and Values** - A Symposium on Philosophical Logic in Celebration of the Centenary of Georg Henrik von Wright, 23-25 May 2016, Helsinki (Finalnd).
- **General Proof Theory**, Celebrating 50 Years of Dag Prawitz's "Natural Deduction", Proof theoretic semantics, 27-29 November 2015, Tübingen (Germany).
- **CLMPS 2015**, 15th Congress of Logic, Methodology and Philosophy of Science, 3-8 août 2015, Helsinki (Finland).
- **XXV Incontro dell'Associazione Italiana di Logica e sue Applicazioni** (*XXV meeting AILA*), 14-17 April 2014, Scuola Normale Superiore, Pisa (Italy).

– **MBR 2012**, Model-Based Reasoning in Science and Technology, 21-23 July 2012, Sestri Levante (Italy).

Participation to schools

– **Logic and Interactions**, thematic month organised at the CIRM: participation to *Logic and transdisciplinarity* (7-11 February 2022) and *Logic, databases and complexity: new methods and challenges* (14-18 February 2022), Marseille (France).
– **3rd International Winter School on Proof Theory**, organised by the *Kurt Gödel Society*, 29 November-3 December 2021, Funchal, Madeira (Portugal).
– **Midlands Graduate School 2021**, organised by the Universities of Birmingham, Leicester, Nottingham and Sheffield, 12-16 April 2021 (online).
– **TACL 2019 Summer School**, school associated to the conference TACL, *Topology, Algebra, and Categories in Logic*, 10-15 June 2019, Île de Porquerolles (France).
– **Scuola Estiva di Logica** (École de logique), organised by AILA (*Associazione Italiana di Logica e sue Applicazioni*) and SILFS (*Società Italiana di Logica e Filosofia della Scienza*), 23-29 August 2015, Gargnano (Italy).

Seminars

– *Proof systems for conditional logics: An introduction*, Science & More Talks, Center for Logic, Language, and Cognition (LLC), University of Turin, 11 January 2023 (Italy).
– *Reasoning about preference and similarity: a proof-theoretic approach*, talk at ILLC Midwinter colloquium 2022, University of Amsterdam, 16 December 2022 (Netherlands).
– *Cyclic Proofs, Hypersequents, and Transitive Closure Logic*, LLAMA Seminar, ILLC, University of Amsterdam, 21 September 2022 (Netherlands).
– *Cyclic proofs, Hypersequents and Transitive Closure Logic*, LIRICA seminar, Aix-Marseille Université, 13 June 2022 (online).
– *Counterfactuals, comparative plausibility and neighbourhoods: from semantics to automated theorem proving*, LIRa Seminar, University of Amsterdam, 28 April 2022 (online).
– *Cyclic Proofs, Hypersequents and Transitive Closure Logic*, *Theoretical Computer Science seminar*, University of Birmingham, 25 February 2022 (online).
– *MOIN: A Theorem Prover for Intuitionistic Modal Logics*, filoLOGICA seminar, Università degli Studi di Bologna, 27 March 2021 (online).
– *On the proof theory of conditional logics*, *Theoretical Computer Science seminar* University of Birmingham, 12 Mars 2021 (online).
– *Automated tools for intuitionistic modal logics*, *Mathematical Foundations Seminar* University of Bath, 26 January 2021 (online).
– *Nested sequents for the logic of conditional belief*, *Institute of Logic, Language and Computation*, University of Amsterdam, 11 March 2020 (Netherlands).
– *Nested calculi for the logic of conditional belief*, équipe Partout, INRIA Saclay, 22 January 2020 (France).

- *Thèorie de la démonstration pour logiques conditionnelles*, LIRICA seminar, Aix-Marseille Université, 6 February 2019 (France).
- *A proof theoretical approach to conditionals*, Helsinki Univeristy, 1 December 2017 (Finland).
- *Logiques conditionnelles: de la sémantique aux systèmes de preuve*, LIRICA seminar, Aix-Marseille Université, 12 June 2017 (France).
- *Logiche condizionali: dalla semantica ai sistemi di dimostrazione*, Università degli Studi di Firenze, 19 March 2017 (Italy).
- *The logic of conditional belief: neighbourhood semantics and sequent calculus*; Technische Universität Wien, 07 December 2017 (Austria).

OTHER SKILLS AND INTERESTS

Languages

ITALIAN	Mother-tongue
ENGLISH	Certification : Pearson PTE Academic
	Overall score: 89/90 (CEFR level : C2)
	Listening : 90/90 Reading : 85/90
	Writing : 85/90 Speaking : 90/90
	Test date : 16 February 2021
FRENCH	Writing, Reading, Listening and Speaking: proficient

Computer Skills

Operating systems	LINUX, ubuntu
Programming languages	C, Java, Prolog, HTML, LaTeX

Other Interests

Kayaking	Juggling
Miniature painting	Reading