Gianluca Curzi

Curriculum Vitae

Personal profile

- **First name**: Gianluca
- **Last name**: Curzi
- **Address**: 379 Gillot Road, Birmingham, B16 0RP, UK
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Education and career

09/23 - present   **Postdoctoral researcher**.
- Institution: University of Gothenburg, Sweden
- Supervisor: Graham Leigh

10/20 - 08/23   **Postdoctoral researcher**.
- Institution: University of Birmingham, UK
- Supervisor: Anupam Das

09/16 - 06/20   **PhD in Computer Science in joint thesis with Paris Diderot University**.
- Institution: Department of Computer Science, University of Turin, Italy
- Supervisor: Luca Roversi (University of Turin)
- Co-supervisor: Michele Pagani (Paris Diderot University)
- PhD Thesis: *Non-Laziness in Implicit Computational Complexity and Probabilistic λ-calculus*. http://www.di.unito.it/~curzi/main.pdf
- Final Defence: 12/06/2020
- Reviewers: Ugo Dal Lago (University of Bologna) and Alessio Guglielmi (University of Bath)
- Jury: Patrick Baillot (CNRS, ENS Lyon), Ugo Dal Lago (University of Bologna), Claudia Faggian (CNRS, Paris Diderot University), Alessio Guglielmi (University of Bath), Michele Pagani (Paris Diderot University), Luca Roversi (University of Turin), Lorenzo Tortora De Falco (Roma Tre University).

10/13 - 04/16	**Master Degree in Philosophy**.
	○ Institution: Faculty of Philosophy, University of Florence, Italy
	○ Final Mark: 110/110 summa cum laude
09/10 - 10/13	**Bachelor's Degree in Philosophy**.
	○ Institution: Faculty of Philosophy, University of Urbino, Italy
	○ Final Mark: 110/110 summa cum laude

Other courses taken

05/17	*Alternative Computing Paradigms*, University of Turin, Italy
01/17 - 04/17	*Proofs and Programs: classical tools*, *Master in Mathematical Logic and Foundations of Computer Science* (LMFI), University of Paris Diderot, France
01/17 - 04/17	*Computational Content of Proofs in Classical Logic*, *Master in Mathematical Logic and Foundations of Computer Science* (LMFI), Paris Diderot University, France
01/17 - 04/17	*Logics and Languages for Complexity*, *Master in Mathematical Logic and Foundations of Computer Science* (LMFI), Paris Diderot University, France
01/17 - 04/17	*Logics and Languages for Complexity*, *Master in Mathematical Logic and Foundations of Computer Science* (LMFI), Paris Diderot University, France
12/16	*Programming 1*, University of Turin, Italy

Papers

2023	G. Curzi, A. Das, *Computational expressivity of (circular) proofs with fixed points*, accepted paper in LICS 2023 (*Logic in Computer Science*). https://arxiv.org/abs/2302.14825
2023	G. Curzi, A. Das, *Non-uniform complexity via non-wellfounded proofs*, accepted paper in CSL 2023 (*Computer Science Logic*). https://doi.org/10.48550/arXiv.2211.16104
2022	G. Curzi, A. Das, *Cyclic Implicit Complexity*, accepted paper in LICS 2022 (*Logic in Computer Science*). https://doi.org/10.48550/arXiv.2110.01114
2021	Aldini A., Curzi G., Graziani P., Tagliaferri M. *Trust Evidence Logic*, accepted paper in ECSQARU (*European Conference in Symbolic and Quantitative Approaches to Reasoning with Uncertainty*). https://doi.org/10.1007/978-3-030-86772-0_41
2021	Curzi G., Roversi L. *Probabilistic Soft Type Assignment*, pre-print on Arxiv. https://doi.org/10.48550/arXiv.2007.01733
2021	Curzi G. *Linear Additives*, accepted paper in TLLA post-proceedings (*Trends in Linear Logic and Applications*). https://doi.org/10.4204/EPTCS.353.4
2020	Curzi G. and Pagani M. *The benefit of being non-lazy in probabilistic λ-calculus*, accepted paper in LICS 2020 (*Logic in Computer Science*). https://doi.org/10.1145/3373718.3394806
2020	Curzi G. and Roversi L. *A Type-Assignment of Linear Erasure and Duplication*, accepted paper in TCS (*Theoretical Computer Science*), Special Issue on Implicit Computational Complexity. https://doi.org/10.1016/j.tcs.2020.05.001

Teaching

02/23 - 06/23   **Theory of Computation**.
- Institution: University of Birmingham, UK
- Description: Tutor for the course *Theory of Computation*.
- Length: 40h

04/22   **Midlands Graduate School in the Foundations of Computing Science**.
- Institution: University of Nottingham, UK
- Description: Lecturer for the course *Proof Theory*. Co-lectured by Marianna Girlando.
- Length: 9h

04/22   **Guest Lecturer for the course *Algorithms and Complexity***.
- Institution: University of Birmingham, UK
- Description: Lecture on Implicit Complexity

02/20 - 04/20   **Massive Open Online Courses (MOOC)**.
- Institution: Department of Pure and Applied Sciences, University of Urbino, Italy
- Description: *Massive Open Online Courses* (MOOC) for undergraduate students on lambda calculus, Turing machines and computational complexity. MOOCs on recursion theory are in preparation. https://tinyurl.com/2p89ct24.

11/19   **Teaching support**.
- Institution: Department of Pure and Applied Sciences, University of Urbino, Italy
- Course: Logic and Theory of Reasoning
- Description: Exercises on Classical Logic
- Length: 10h

09/18 - 12/18   **Teaching support**.
- Institution: Département d'Informatique, Paris Diderot University, France
- Course: Introduction to programming in Java
- Length: 32h

09/18 - 12/18   **Teaching support**.
- Institution: Département d'Informatique, Paris Diderot University, France
- Course: Databases
- Length: 32h

Appointments

10/19 - present   ***Subject-matter expert* in Logic and Computer Science**.
- Description: *Subject-matter expert* ("*Cultore della Materia*") is an Italian academic title that qualifies those members of the academic staff who are specialised on a particular field and work as teaching assistants and exam committee members on a voluntary basis.
- Institution: Department of Pure and Applied Sciences, University of Urbino, Italy

2016 - 2020   **Research collaborator**.
- Research group: *Logical Foundations of Computing*
- Institution: Department of Computer Science, University of Turin, Italy

01/17 - 06/19   **Visiting PhD student**.
- Institution: Paris Diderot University, France
- Duration: 10 months

Professional service

09/23 - 06/24	Local organiser of Logic Colloquium 2024
09/22	PC member of the workshop CIFMA 2022 (*Cognition: Interdisciplinary Foundations, Models and Applications*)
09/21	PC member of the workshop CIFMA 2021 (*Cognition: Interdisciplinary Foundations, Models and Applications*)
09/21	Local organiser of the conference TABLEAUX 2021
2021	Reviewer for ACM Transactions on Programming Languages and Systems 2021
2018 - present	Sub-reviewer for CSL (2018, 2021 and 2022), CIFMA (2020, 2021), ESOP (2021)

Awards and prices

2018   **Scholarship "Bando Vinci"**.
- Description: The "Vinci" programme focuses on funding PhD students in joint thesis ("cotutelle") with a French university.
- Institution: Université Franco-Italienne

Dissemination

12/19   **Outreach activities for *Open Day***.
- Description: I gave a talk for high-school students introducing formal logic
- Institution: University of Urbino, Italy
- Link: https://tinyurl.com/4ydsthra.

11/19   **Outreach activities *Open Day***.
- Description: I gave a talk for high-school students introducing the notion of computation
- Institution: Secondary school "E. Mattei" of Urbino, Italy
- Link: https://tinyurl.com/yc38nz4p

05/17   **Poster Day**.
- Description: I presented a poster on *linear logic and computation*
- Institution: University of Turin, Italy

Workshops and conferences (as speaker)

07/23	*Computational expressivity of (circular) proofs with fixed points*, Gianluca Curzi. emphWorkshop on Proof Theory and its Applications 2023, Barcelona (Spain).
06/23	*Computational expressivity of (circular) proofs with fixed points*, Gianluca Curzi. *LICS 2023*, Boston (USA).
02/23	*Computational expressivity of (circular) proofs with fixed points*, Gianluca Curzi. *Workshop for Dominik Wehr's licentiate thesis*, Gothenburg (Sweden).
02/23	*Computational expressivity of (circular) proofs with fixed points*, Gianluca Curzi. *Workshop FICS 2023*, Warsaw (Poland).
02/23	*Non-uniform complexity via non-wellfounded proofs*, Gianluca Curzi. *CSL 2023*, Warsaw (Poland).

11/22   *Non-uniform complexity via non-wellfounded proofs*, Gianluca Curzi. *Workshop on Proof Theory and its Applications 2022*, Utrecht (Netherlands).

08/22   *Cyclic Implicit Complexity*, Gianluca Curzi. *LICS (in FLOC22)*, Haifa (Israel).

06/22   *On the computational strength of logics with fixed points*, Gianluca Curzi. *StrIP Kick-Off workshop*, Birmingham (UK).

05/22   *Cyclic Implicit Complexity*, Gianluca Curzi. *"CHoCoLa" meetings (Curry-Howard: Logic and Computation)*, Lyon (France).

09/21   *Cyclic Implicit Complexity*, Gianluca Curzi. *Workshop on Proof Theory and its Applications 2021*, Madeira (Portugal).

11/21   *Cyclic Implicit Complexity*, Gianluca Curzi. *Workshop SCALP 2021*, Fontainebleau (France).

09/21   *Towards Cyclic Implicit Complexity*, Gianluca Curzi. *Workshop on Continuity, Computability, Constructivity 2021*, Birmingham (UK)

09/21   *Trust Evidence Logic*, Gianluca Curzi and Mirko Tagliaferri. ECSQUARU 2021, Prague (Czech Republic).

04/21   *Towards Cyclic Implicit Complexity*, Gianluca Curzi. *Journées PPS 2021*, Paris (France)

07/20   *The Benefit of Being Non-Lazy in Probabilistic λ-calculus*, Gianluca Curzi. LICS 2020, Saarbrücken (Germany)

06/20   *Linear additives*, Gianluca Curzi. TLLA-LINEARITY 2020, Paris (France).

02/18   *Towards a Semantic Characterisation of Probabilistic Complexity Classes*, Gianluca Curzi. *Workshop on Probabilistic Interactive and Higher-order Computation* (PIHOC) 2018, Bologna (Italy)

Programming Language

Basic   HTML5
Intermediate   JAVA, MYSQL

Languages

Italian   **Native**
English   **Fluent**
French   **Intermediate**