



PERSONAL INFORMATIONS

Name	GABRIELE GULLÀ
Gender	MALE
E-mail Address	gabriele.gull@uniroma1.it
Citizenship	Italian

EDUCATION

Attended Institutions and Degrees	<ul style="list-style-type: none">- "Laurea Triennale" in Mathematics, University of Roma-Tor Vergata- "Laurea Magistrale" in Mathematics, University of Roma-Tor Vergata- PhD in Mathematical Logic, University of Roma-Tor Vergata- Courses in Cultural Anthropology, Psychology, Pedagogy and Didactics of Mathematics at University of Firenze
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PERSONAL EXPERTISES

MOTHERTONGUE

Italian

OTHER LANGUAGES

English, French

- **reading** good, good
- **writing** good, good
- **oral expression** good, good

COMPUTER EXPERTISES

LaTeX, Beamer, basic of programming in C++ and Python

INTERNATIONAL AND ITALIAN
ASSOCIATIONS MEMBERSHIP

- AILA ("Associazione Italiana di Logica e Applicazioni")
- ASL ("Association for Symbolic Logic")
- ESTS ("European Set Theory Society")

RESEARCH INTERESTS

Mathematical Logic: Set Theory, General Topology, Abstract Model Theory, Modal Logic, Applications to Economics and Linguistic; Mereology and Philosophy of Logic and Mathematics; Philosophy of Language, in particular:

- 1) Mathematical Logic
 - 1a) Set Theory(ies)
 - Large Cardinals (Axioms)
 - → Compactness
 - → Measurability
 - Forcing (Axioms)
 - 1b) Abstract Model theory
 - Model Theoretic Logics
 - Ω -Logic and Strong Logics
 - 1c) Metalogic and Metamathematics
 - 1d) Logic of Graphs
- 13) Modal Logic
- 4) Abstract Formal Languages
- 5) Interactions between Logic, Mathematics, Economics and Linguistics
 - Infinite Game Theory; Fractal Geometry; Quantifiers
- 6) Set-theoretical/General Topology
 - Ultrafilters, Ultrafilters on words
 - Linearly Ordered Spaces
- 7) Philosophical Logic
 - Mereology and Mereotopology
 - Truth Theories
- 8) Philosophy of Logic and of Language
 - Wittgenstein, Quine, Chomsky
 - What is a proof?
- 9) History of Logic and Mathematics
 - Medieval (arabic and jewish) Logic and Mathematics
 - Vasil'ev, Florenskij
 - Proofs across history

SOME PAPER (SEMINARS,
UNPUBLISHED, READY TO

- "Some observations on a result by Bialinicki-Birula and Żelazko",
arXiv: <https://arxiv.org/abs/2403.17027>

SUBMISSION, SUBMITTED):

- “A synthetic overview on some known characterizations of Woodin Cardinals”, arXiv: <https://arxiv.org/abs/2403.17026>
- “A short survey around the pumping Lemma for Context-free Languages”, arXiv: <https://arxiv.org/abs/2403.15899>
- “On a relation between λ -full well-ordered sets and Weakly Compact Cardinals” (submitted, under revision), arXiv: <https://arxiv.org/abs/2403.15904>
- “Il Trattato sull’arte della logica di Maimonide. Da Rambam a I. Efos e R. Brague: una traduzione commentata” (accepted, under publication, Aracne Ed.)

RECENT SEMINARS:

- “Some equivalents of the Axiom of Choice”
- “The Consistency of the negation of CH with Zermelo-Fraenkel Axioms”
- “On the essential falsity of the Continuum Hypothesis”
- “Logic across mathematics: three examples in algebra”
- “Didattica della Dimostrazione”

PARTICIPATION TO
INTERNATIONAL CONFERENCES

- 6th Young Set Theory Workshop, 10-14 June 2013, Oropa (Bi), Italia;
- 4th European Set Theory Congress, 15-18 July 2013, Mon St Benet (Barcelona), Spain.
- “Giornata di studio in onore di Gabriele Lolli”, 13 December 2013, Torino, Italia.
- 42nd Winter School in Abstract Analysis-Section Set Theory and Topology, 25/01/2014-1/02/2014, Hejnice-Czech Republic;
- XXV AILA (Italian association of logic and application) Meeting, 14-17 April 2014, Pisa, Italia;
- "Algebra and Literature: different Languages, same Models", 23-24 June 2014, Firenze, Italia;
- "Wadge Theory and Automata", (26-)28 January 2015, Torino, Italia;
- C.O.M.Fort 2015, 22-23 May 2015, Pisa, Italia;
- UMI Conference, Section of Logic, 7-12 September 2015, Siena, Italia;
- FilMat 2016: II International Conference in Philosophy of Mathematics: "Truth, Existence, and Explanation", 26-28 May, Chieti, Italia;
- 9th Young Set Theory Workshop, 13-17 June, Copenhagen-Denimark;
- Advanced Course on Large Cardinals and Strong Logics, 19-23 September 2016, Universita Autonoma de Barcelona, Bellaterra, Spain;
- Workshop on Set-Theoretical aspects of the Model Theory of Strong Logics, 25-30 September 2016, Università Autonoma de Barcelona, Bellaterra, Spain;
- Model Theory: Philosophy, Mathematics and Language, 9-12 January 2017, LMU Munich, Germany;
- Logic in Question, 13-14 June 2017, Paris-Sorbonne, Paris-France;
- 6th European Set Theory Conference, Budapest-Hungary, 3-7 July 2017;
- 10th Young Set Theory Workshop, Edimburgh-Scotland, 10-14 July 2017;
- FilMat 2018: III International Conference in Philosophy of Mathematics: "Objects, Structures and Logics", 25-27 May 2018, Mussomeli, Italia;
- “Ramsey Theory and Computability”, 9-13 July 2018, Roma, Italia;
- “ULMTRAMATH: Ultrafilters across mathematics”, 6-11 June 2022, Pisa, Italia
- “A tale of Models and Modules”, 26/11/2022, Florence, Italy
- “Discrete Mathematics and Logic between mathematics and computer science”, Marseille, 16-20 January 2023
- “Philosophy of Mathematics: Models, Methods, and Applications”, Tor Vergata 11-12

January 2024

ONGOING WORKS:

- MEREOLGY ON LOGICS AND STRUCTURES
- MORE ON COMPACTNESS SPECTRUM OF ABSTRACT LOGICS
- IS REALITY REALLY REAL ? ONTOLOGY UNDER A SET-THEORETIC PERSPECTIVE
- A MODAL-LOGIC PERSPECTIVE ON Ω -LOGIC
- "RICHARDIANITY" IN LOGIC, MATHEMATICS AND LINGUISTICS
- A LOGICAL APPROACH TO THE CONCEPT OF "TRANSLATION"
- TEXTBOOK ON DISCRETE MATHEMATICS