



## PERSONAL INFORMATIONS

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 Gender **MALE**  
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Citizenship Italian  
 Birth date 07/12/1986

## EXPERIENCES

From 2011 to 2019 University of Roma-Tor Vergata  
 Teaching Assistant  
 1) Geometry 1 for Physics, regular teacher prof. M.Nacinovich  
 2) Geometry 3 for Mathematics, regular prof. F.Tovena  
 3) Discrete Mathematics for Computer Science, regular prof. F.Brenti  
 4) Fourier Analysis for Mathematics, regular prof. M.Picardello  
 5) Mathematical Methods for Physics 2, regular prof. G.Pradisi  
 6)-(7) Geometry 1 for Engineering, regular prof. G.Ceresa and prof. E.Ciriza  
 8) Mathematical Analysis 1, regular prof. Roberto Tauraso

From 2014 to 2022 Luiss University  
 Teaching Assistant/Tutoring  
 9)-(10)-(11)-(12)-(13)-(14)-(15)-(16)- (17)-(18)-(19) General Mathematics for Economy, regular teachers: prof.sa Maria Sole Staffa/prof. Valerio Dose  
 20) Pre-course in Mathematics (regular teacher)  
 21)-(22) Support courses for General Mathematics and Advanced Elements of Mathematics (Differential Equations, Dynamical Systems, Higher Linear Algebra) (regular teacher)

A.A. 2016-2017, A.A. 2019-2021,  
 A.A. 2021-2022  
 University Sapienza  
 Teaching Assistant/Adjunct Professor (regular)  
 23) Geometry 1 for Engineering, regular prof. Antonio Cigliola  
 24) Geometry 1 for Engineering: support course (regular teacher)  
 25) Mathematical Analysis I for Engineering (regular teacher)  
 26) Mathematical Analysis I for Informatics (regular teacher)  
 27) Mathematical Analysis II for Engineering (regular teacher)  
 28) Discrete Mathematics for Computer Science (regular teacher)

From 2017 to 2022 University of  
 Teaching Assistant/Adjunct Professor (regular)

Roma Tre

29)-(30) Institutions of Mathematics 1 and 2 for Architecture, regular proff. Corrado Falcolini/Paola Magrone  
(31) external collaborator for the course of Institutions of Mathematics 2, regular prof. Laura Tedeschini Lalli  
32) Extra-course of Institutions of Mathematics 2 (regular teacher)

From 2013 to 2017 University of  
Roma-Tor Vergata

Research in Mathematics Department

From September 2021

Teacher ("di ruolo") at "IIS Via Silvestri 301" (2021-2022), Liceo Farnesina (2022-)

## **EDUCATION**

Attended Institutions and Degrees

- High School Degree "Liceo Scientifico Augusto Righi" (Roma)
- "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 Florence

Objects of study

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

## PERSONAL EXPERTISES

MOTHER TONGUE

Italian

OTHER LANGUAGES

English, French

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

COMPUTER EXPERTISES

LaTeX, Beamer, basic of programming in C++

RESEARCH INTERESTS

Set Theory ( $\Omega$ -logic, Large Cardinals, Forcing and Ultrafilters theory) ; Topology; New Foundation system (Quine) and Truth Theories (Kripke, Tarski); Modal Logic; Mereology and Mereotopology; Abstract Model Theory (strong logics); Philosophy and History of Logic; Formal Languages e Philosophy of Language; Fractal Geometry and applications to Economics and Linguistic;

SEMINARS (CFR PERSONAL WEB PAGE FOR FREE CONSULTATION)

“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“  
“About multiplicative linear functionals defined on the cartesian product of algebras”  
“About the different characterization of Woodin cardinals”  
“About the pumping Lemma for free context languages”  
“Logic across mathematics: three examples in algebra”

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

#### **OTHER INFORMATIONS**

Web Page: <https://sites.google.com/view/gabrielegul/>