

CURRICULUM VITAE

Francesca Boccuni

Current position: Associate Professor, PHIL-02/A Logic and Philosophy of Science, Faculty of Philosophy, Vita-Salute San Raffaele University.

Areas of specialization: Philosophy of Mathematics, Logic, Philosophical Logic, Philosophy of Logic

Areas of competence: Philosophy of Language, Ontology, Epistemology

EDUCATION AND RESEARCH EXPERIENCES

- 2022: Visiting Scholar at the Philosophy Department of Northwestern University (IL) and the Philosophy Department of Kansas State University.
- 2016: Visiting Scholar at the Philosophy Dept., Bilkent University, Ankara, Turkey
- 2015: Visiting Scholar at the Philosophy Dept., University of California at Davis (UC Davis), USA.
- 2013: Visiting Scholar at the Philosophy Dept., Ohio State University, USA.
- 2012: Post-doctoral Visiting Researcher at the ERC project “Plurals, Predicates, and Paradox”, Philosophy Dept., University of Oslo, Norway. PI: Prof Øystein Linnebo
- 2012: Post-Doctoral Visiting Fellow at the Institute of Philosophy, School of Advanced Study, London, UK
- 2011: Post-Doctoral Researcher, Philosophy Faculty, Vita-Salute San Raffaele University, Milan, Italy
- 2008-2009: British Academy post-doctoral visiting fellow at the Philosophy Dept., University of Bristol, UK. Project: *Meta-Theory of the Logical System for Arithmetic Predicative Grundgesetze*. PI: Dr Øystein Linnebo
- 2004-2005: Visiting scholar at the Philosophy Dept., Ohio State University, USA. PI: Prof Stewart Shapiro
- 2004: Visiting scholar at the Institut Jean Nicod-CNRS, Paris, France
- 2002: Visiting scholar and associate member of New College, Oxford, UK. PI: Prof Gianluigi Oliveri
- 2002-2006: PhD in Philosophy of Language, University of Eastern Piedmont “Amedeo Avogadro”, Vercelli, Italy.

- 2002: M.A. in Philosophy, University of Padova.
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PUBLICATIONS (selection)

- “The Logics of Abstraction” (with A. Sereni), in E. Brendel, M. Carrara, F. Ferrari, O. Hjortland, G. Sagi, G. Sher, F. Steinberger (eds.), *Oxford Handbook of Philosophy of Logic*, OUP, forthcoming
- “The Caesar-problem Problem” (with L. Zanetti), *Philosophia Mathematica*, 2025
- “Arithmetic on the Cheap: Neologicism and the Problem of the Logical Ontology”, *Thought: A Journal of Philosophy*, 2025 (online first); 12(1), 2023: 55-63
- *Abstractionism* (with L. Zanetti), Cambridge Elements in the Philosophy of Mathematics, CUP, 2024
- “Frege meets Belnap: Basic Law V in a Relevant Logic” (with Shay A. Logan), in I. Sedlar, S. Standefer, A. Tedder (eds.), *New Directions in Relevant Logics*, Trends in Logic series, Springer, 2024
- “Explicit Abstract Objects in Predicative Settings” (with Sean Ebels-Duggan), 2024, *Journal of Philosophical Logic*
- “Plural Frege Arithmetic“, 2022, *Philosophia Scientiae*, 26(1): 189-206.
- “Frege’s Theory of Real Numbers: A Consistent Rendering” (with M. Panza), 2022, *The Review of Symbolic Logic*, 15(3), 624-667. doi:10.1017/S175502032000026X
- “Origins and Varieties of Logicism: An Overview” (with A. Sereni), 2021, in F. Boccuni & A. Sereni (eds.), *Origins and Varieties of Logicism. On the logico-philosophical foundations of mathematics*, Routledge Studies in the Philosophy of Mathematics and Physics
- “Logica plurale“, 2020, *AphEx (Analytical and Philosophical Explanation)*, 22 – in Italian
- “Structuralist Neologicism” (with J. Woods), 2020, *Philosophia Mathematica*, 28(3): 296-316.
- “Realismo e indeterminatezza nei fondamenti della matematica”, *Lost in Physics and metaphysics. Questioni di realismo scientifico*, Istituto Lombardo – Accademia di Scienze e Lettere – Incontri di Studio, 2019.
- “Reference in Formal Semantics and Natural Language: A Methodological Route“, 2018, *Phenomenology and Mind*, 15: 24-35
- (with S. Bacin), “Introduction: Methods of Philosophy“, 2018, *Phenomenology and Mind*, 15: 10-13
- “Introduction” (with A. Sereni), 2016, in F. Boccuni & A. Sereni (eds.), *Philosophy of Mathematics: Objectivity, Realism and Proof* (Boston Studies in the History and Philosophy of Science, Springer), 2016

- “The Logicality of Second-Order Logic. An Analysis in Terms of Plural Arbitrary Reference and Acts of Choice” (with M. Carrara and E. Martino), 2016, in M. Carrara, A. Arapinis, F. Moltmann, *Unity and Plurality. Philosophy, Logic, and Semantics*, OUP.
- “Frege’s Grundgesetze and a Reassessment of Predicativity”, 2015, in G. Lolli, M. Panza, G. Venturi (Eds.), *From Logic to Practice: Italian Studies in the Philosophy of Mathematics*, Boston Studies in the Philosophy and History of Science, Springer, 2014
- “Minimal Logicism“, 2014, *Philosophia Scientiae*, 18(3): 81-94
- “Plural Logicism“, 2013, *Erkenntnis*, 78(5): 1051-1067
- “Sheep without SOL. The Case of Second-Order Logic“, 2012, *Logic & Philosophy of Science*, SILFS 2010 Selected Proceedings, 9(1):75-83
- “On the Consistency of a Plural Theory of Frege’s *Grundgesetze*“, 2011, *Studia Logica*, 97(3): 329-345
- “Profili: Gottlob Frege“, 2011, *APhEx (Analytical and Philosophical Explanation)*, 3 – in Italian
- “Plural *Grundgesetze*“, 2010, *Studia Logica*, 96(2): 315-330
- (et al.), *The Reasoner. Key Terms in Logic*, 2010, J. Williamson and F. Russo (Eds.), Continuum Books. Entries: Abstraction; Axiom; Cardinality; Classes; Coherence; Consistency; Contradiction; Domain; Extension; Intension; Interpretation; Logical Form; Logical Function; Metalanguage; Negation; Propositional Variable
- “Matematica“, in M. Ferraris (Ed.) *Storia dell’ontologia*, Bompiani, 2008: 558-580 (in Italian)
- “Plural Quantification and a Predicative Revision of Frege’s *Grundgesetze*“, in M. Peliš (Ed.) *The Logica Yearbook 2007*, Filosofia, Prague, 2008, 11-21
- “Mathematics and Cognition: Some Objections to a Cognitive Foundation for Mathematics“, in J. Škilters, F. Toccafondi et al. (Eds.) “The Baltic International Yearbook of Cognition, Logic and Communication: Complex Cognition and Qualitative Science. A Legacy of Oswald Külpe“, vol. 2, University of Latvia, Riga, 2007, pp. 115-136
- “Enunciato indecidibile e circolarità viziosa“, in M. Carrara, G. De Anna et al. (Eds.) *Linguaggio, mente, mondo*, Padova, Poligrafo, 2004, pp. 49-80 (in Italian)

Invited talks - selection

- *Logics and Abstractions* (joint work with A. Sereni), SSHAP Toronto, July (invited)
- TBA, Upper Logicism workshop, Lisbon, June (invited)
- TBA, Peking University, Beijing, May (invited)
- TBA, Beijing Normal University, Beijing, May (invited)
- TBA, Fudan University, Shanghai, May (invited)

- TBA, Hubei University, Wuhan, May (invited)
- TBA, Xidian University, Xi'an, May (invited)
- TBA, Northwestern University, Xi'an, May (invited)
- TBA, Workshop in the Philosophy of Mathematics, Lanzhou University, Lanzhou, May (invited)
- *Neologicism, Structuralism, and the Unbearable Lightness of Being a Mathematical Object*, SIFA-SISFA Workshop on Platonism in Metaphysics and the Philosophy of Mathematics: Ancient and Contemporary, Rome, May (invited)
- *Frege's Proof of Referentiality. Groundworks for a Novel Interpretation of Frege's Conception of Quantification*, Themes from Early Analytic Philosophy, online, March (invited)
- *Logics and Abstractions* (joint work with A. Sereni), Linguaggio, Logica e Ontologia 2, University of Pisa, January (invited)
- *Frege's Proof of Referentiality*, 4th International Gottlob Frege Conference, Gottlob Frege Zentrum, Wismar, September 2025 (keynote)
- *This is no Ordinary Arithmetic. Frege Cardinals and Finitude*, Commemorating Frege: Logic and Philosophy of Mathematics, University of Lisbon, September 2025 (invited)
- *Logicism and Neologicism: A Historical and Philosophical Perspective*, Lectures at the MCMP Summer School for Widening Participation in Mathematical Philosophy, July-August 2025 (invited)
- *Frege Arithmetic and Finitude*, SSHAP, University of Jena, July 2025 (invited)
- *Forever Young: A Hundred Years of (Frege's) Abstractionism*, USI Lugano Philosophy Colloquia, March 2025 (invited)
- *The Conqueror's Arrogance: Neologicism, Caesar Problem and Frege's Constraint* (joint work with A. Sereni), University of Vienna, Vienna-IUSS Workshop on Mathematical Definitions, February 2025 (invited)
- *The Conqueror's Arrogance: Neologicism, Caesar Problem and Frege's Constraint* (joint work with A. Sereni), Leeds Neo-Fregeanism Workshop, November 2024 (invited)
- *The Conqueror's Arrogance: Neo-logicism, Caesar Problem and Frege's Constraint* (joint work with A. Sereni), SSHAP, UConn and Westleyan University, July 2024
- *Fregean Object Theory* (joint work with S. Ebels-Duggan), Workshop on Logicism, MCMP, June 2024 (invited)
- *The Conqueror's Arrogance: Neo-logicism, Caesar Problem and Frege's Constraint* (joint work with A. Sereni), Workshop in the Philosophy of Mathematics, USI Lugano, April 2024

- *Caesar Constrained. Applicability, Neologicism, and Structuralism* (joint work with Andrea Sereni), PhilMathMed, May 2023
- *The Logical Ontology of Abstractionism, LanCog*, University of Lisbon, March 2023
- *The Logics of Abstraction* (joint work with Andrea Sereni), Euphilo, March 2023
- *Relevant Abstractionism* (joint work with Shay Logan), Perspectives on Logic and Philosophy, Ruhr University Bochum, 9-11 January 2023
- *Principio del Contesto, Riferimento, e Applicabilità*, Rari nantes in gurgite vasto. Giornata di studi in onore di Eva Picardi, IUSS, Pavia, December 2022
- *The Caesar Problem Problem* (joint work with Luca Zanetti), Kansas State University, May 2022
- *Explicit Abstract Objects*, OC-IE HPML Group, Chapman University, May 2022
- *Relevant Neologicism* (with Shay Logan, Kansas State University), CRESA WIP seminars, UniSR, June 2021
- *How to Hamlet a Caesar* (with Luca Zanetti, IUSS, Pavia), IUSS Philosophy Seminars eMath Project, IUSS, Pavia, May 2021
- *How to Hamlet a Caesar. Il Principio di Hume è analitico?* (with Luca Zanetti, IUSS, Pavia), Synergia seminars, University of Urbino Carlo Bo, March (invited), 2021
- *How to Hamlet a Caesar* (with Luca Zanetti, IUSS, Pavia), Science and More Talks, University of Turin, February (invited), 2021
- *High Hopes for Frege's Logicism?*, University of Birmingham, February (invited), 2020
- *Sortali, identità e astrazione*, Inferenze: logica, scienze, linguaggio. Giornata di studi in onore di Pierdaniele Giaretta, University of Padua, November (invited), 2018
- *Abstraction for real(s)! Frege's theory of real numbers* (with Marco Panza), Varieties of Mathematical Abstraction, University of Wien, July (invited), 2018
- *Lightweight Neologicisim (do a lot with less)*, Meaning and Knowledge: Celebrating Gabriele Usberti and his work, University of Siena, July (invited), 2018
- *Realismo e indeterminatezza in filosofia della matematica*, Lost in physics and metaphysics. Questioni di realismo scientifico, Istituto Lombardo, Accademia di Scienze e Lettere, January (invited), 2018
- *Arithmetic on the Cheap*, ECAP9 (contributed workshop 'Mathematical Platonism: Frege and Neo-Fregeanism'), LMU, Munich, August (invited), 2017
- *Reference in Formal Semantics and Natural Language: A Methodological Route*, "The methods of philosophy", Cesano Maderno, 2017

- *Metaphysically Lightweight Arithmetic: You can't always get what you want, but you get what you need*, workshop Plural Foundations, University of Leeds, UK, 2016
- *What should we render unto Caesar?*, (con Jack Woods – Bilkent University), University of Bologna, 2016
- *What should we render unto Caesar?*, (con Jack Woods – Bilkent University), first IUSS-IHPST workshop in the Philosophy of Mathematics and Logic, IUSS Pavia, 2016
- *The Julius Caesar Problem and Invariance*, Philosophy Department, Bilkent University, Turkey, 2016
- *Metaphysically Lightweight Abstraction*, Realism and Objectivity, Matera, 2015
- *Reference and Invariance in Abstraction Principles*, Logic Colloquium, University of Connecticut, USA, 2015
- *On the existence and identity of Fregean abstracta*, Center for the Advancement of Logic, its Philosophy, History and Applications, University of California Irvine, USA, 2015
- *Reference and Invariance in Abstraction Principles (I and II)*, Philosophy Department, UC Davis, 2015
- *On the Logicality of Frege's Definition of Domains of Magnitudes* (with Marco Panza), Frege and Neo-Fregeanism, IHPST, Paris, 2014
- *A Theory of Fregean Concepts and Objects*, workshop on Abstractionism and Neologicism, UConn Logic group, University of Connecticut, 2014
- *A Plural Approach to Frege's Logicism*, Logic, Language, and Science Colloquium Series, Ohio State University, 2013
- *A Theory of Fregean Abstract Objects*, Workshop on Intensionality in Mathematics, Lunds Universitet, 2013
- *Grounding (Ideal) Reference*, October, Groundedness: Semantics and Beyond, MCMP, Munich, 2012
- *Frege's Grundgesetze and a Reassessment of Impredicativity*, Department Seminar, Università di Bristol, GB, 2012
- *Frege's Grundgesetze and a Reassessment of Impredicativity*, May, Lunchtime Seminars Series, Institute of Philosophy, School of Advanced Study, Londra, GB, 2012

- *Logicism without Numbers*, (with M. Carrara and E. Martino), Cogito Day VI, Bologna, Italia, 2011
- *Grundgesetze Plurali*, Dipartimento di filosofia, Università Cattolica del Sacro Cuore, Milano, Italia, 2009
- *Grundgesetze Plurali*, Seminario di Filosofia Analitica, Dipartimento di filosofia, Università di Padova, Italia, 2009
- *A Plural Extension of the Predicative Second-Order Fragment of Frege's Grundgesetze (Part II)*, Research Seminar in the Philosophy of Mathematics Seminar, University of Bristol, GB, 2008
- *A Plural Extension of the Predicative Second-Order Fragment of Frege's Grundgesetze (Part I)*, Research Seminar in the Philosophy of Mathematics Seminar, Università di Bristol, GB, 2008

Contributed talks - blind review - selection

- *The Conqueror's Arrogance: Neologicism, Caesar Problem and Frege's Constraint* (joint work with A. Sereni), World Congress of Philosophy, Rome 2024
- *The Conqueror's Arrogance: Neologicism, Caesar Problem and Frege's Constraint* (joint work with Andrea Sereni), *Who is Afraid of Philosophy? New Challenges for Contemporary Society* 15th Conference of the Italian Society for Analytic Philosophy SIFA, September 2023
- *The Conqueror's Arrogance: Neologicism, Caesar Problem and Frege's Constraint* (joint work with Andrea Sereni), *Logic, Philosophy of Science, and Global Challenges* SILFS Triennial Conference, September 2023
- *How to Hamlet a Caesar* (with Luca Zanetti, PoliMI), XIV Convegno Nazionale della Società Italiana di Filosofia Analitica: *Shaping the future: What's the Role of Philosophy?*, 2021
- *What should we render unto Caesar?*, (con Jack Woods – Leeds University), FPMW8, Marseille, 2016
- *Structuralist (Neo-?)Logicism*, (con Jack Woods – Leeds University), Foundations of Mathematical Structuralism, MCMP, Munich, 2016
- *Reference and Invariance in Abstraction Principles*, CLMPS, Helsinki, 2015
- *Reference, Individuation, and Abstraction*, ECAP 2014, Bucharest, 2014
- *A Theory of Fregean Concepts and Objects*, PPP workshop on Abstraction: Philosophy and Mathematics, University of Oslo, 2014
- *Plural Logicism*, 14th CLMPS, Nancy, Francia, 2011

- *Plural Logicism*, Paris-Nancy PhilMath Workshop, Francia, 2010
- *Reference and Sameness of Reference: A Case for Ante-Rem Structuralism*, 9th national conference of the Italian Society for Analytic Philosophy “Truth, Knowledge, and Science”, Università di Padova, Italia, 2010
- *Sheep Without SOL: The Case of Second-Order Logic*, “Word and Object, 50 years later. Colloquium in Celebration of W.V.O. Quine”, Università “La Sapienza”, Roma, Italia, 2010
- *Plural Grundgesetze*, “Logic, Language, Mathematics, A Philosophy Conference in Memory of Imre Ruzsa”, Eötvös University, Budapest, Ungheria, 2010
- *Plural Grundgesetze*, “Trends in Logic VII: Trends in the Philosophy of Mathematics”, Goethe-University, Francoforte, Germania, 2009
- *Plural Logicism*, Sixth European Congress of Analytic Philosophy, Cracovia, Polonia, 2009
- *The Floating Extension Problem: The Case of the Explicit Definition of Natural Numbers in Frege’s Grundgesetze Der Arithmetik*, The Joint Session of the Aristotelian Society and the Mind Association, Università di Bristol, GB, 2009
- *Plural Quantification and a Predicative Revision of Frege’s Grundgesetze*, Logica Symposium, Hejnice, Repubblica Ceca, 2007
- *Mathematics and Cognition: Some Objections to a Cognitive Foundation for Mathematics*, Second International Workshop of Cognitive Systems as Representational Systems, Toruń, Polonia, 2004

TEACHING - ongoing

Vita-Salute San Raffaele University (UniSR): Formal Logic (B.A., Philosophy); Philosophical Logic (M.A., Philosophy).

Università della Svizzera Italiana (USI): Logica 2 (B.A., Philosophy), a.a. 2024-2025; a.a. 2025-2026.

MISCELLANEOUS

Research Projects:

- PUMa: Proof and Understanding in Mathematics. Purity of methods, simplicity, and explanation in mathematical reasoning, PRIN 2022, local PI

Steering committes - selection:

- 2024: member of the scientific committee of the 2024 FilMat graduate conference, *Philosophy of Mathematics: Models, Methods, and Applications*, Rome Tor Vergata
- 2022: member of the scientific committee of the 2022 FilMat conference, *Philosophy of Mathematics: Foundations, Definitions, and Axioms*, IUSS, Pavia
- 2019: member of the scientific and organizing committees of the Second Graduate Conference of the Italian Network for the Philosophy of Mathematics – FilMat: *Philosophy of mathematics: logic, language, and methodology*
- 2018: scientific and organizing committee of SIFA 2018, Novara
- 2017: scientific and organizing committee of SIFA midterm 2017, Genova
- 2018: scientific committee of FilMat 2018, Mussomeli (CT)
- 2016: scientific committee of FilMat 2016, Chieti
- 2015: co-organizer of the workshop *The Laws of Thought. Frege on logic, thinking and conceptual analysis*, IUSS, Pavia
- 2015: co-organizer of the workshop *Origins and Varieties of Logicism*, IUSS, Pavia
- 2014: scientific and organizing committee of FilMat 2014, Università Vita-Salute San Raffaele, Milano
- 2014: organizing committee of the workshop *Frege's real numbers*, Università Cattolica del Sacro Cuore-Università Vita-Salute San Raffaele, Milano
- 2012: organizing committee of the international conference and winter school “Sense and Sensibility”, Università San Raffaele, Milano, Gennaio 2013
- 2011: local organizing committee of ECAP 7, Università Vita-Salute San Raffaele - Università di Milano, Milano, Settembre 2011
- 2011: organizing committee of the international conference and Spring School “Making the Social World”, Università San Raffaele, Milano, Giugno 2011

Editorial boards:

- 2023-present: member of the editorial board of the *Bulletin of Symbolic Logic* (Reviews Section)
- 2022-present: member of the editorial board of *Logique et Analyse*
- 2011-present: member of the editorial board of *Phenomenology and Mind*
- 2016-2018: member of the board of the Italian Society for Analytic Philosophy (SIFA); assistant editor of *Argumenta*

Occasional reviewer for:

- The Philosophical Quarterly
- Dialectica
- Erkenntnis
- Philosophia Mathematica
- The Review of Symbolic Logic
- Synthese
- Logique et Analyse
- Aphex
- Philosophia Scientiae
- Theoria

- Topoi

Memberships in philosophical societies and research centres:

- steering committee SIFA 2016-2018
 - promoting committee of the Italian network for the philosophy of mathematics FilMat - 2012-present
 - CRESA
 - SILFS
 - SIFA
 - Associate Investigator in “Philosophy of Mathematics and Philosophy of Logic”, Cogito Research Centre in Philosophy
-