

## EMPLOYMENT

- 2017-present CR1 Senior Research Fellow (tenured), *CNRS–Centre National de la Recherche Scientifique*, France  
Research Fellow, Max Planck Institute for the History of Science, Berlin
- 2016-2017 Leibniz Professor, Visiting Full Professorship, Research Academy, University of Leipzig  
Research Associate, Max Planck Institute for Mathematics, Leipzig.
- 2010-2016 Independent Research Group Director, Max Planck Institute for the History of Science, Berlin  
Max Planck Research Group on “*Modern Geometry and the Concept of Space*”
- 2009-2010 Alexander von Humboldt Fellow, Technische Universität, Berlin
- 2008-2009 Research Fellow in *Logic and Philosophy of Science*, Scuola Normale Superiore, Pisa
- 2006-2008 Post-doctoral Fellow in *History of Logic*, Scuola Normale Superiore, Pisa

## EDUCATION

- 2005 Ph.D. (Perfezionamento) in Philosophy, Scuola Normale Superiore, Pisa (with honors)  
with a dissertation on Leibniz’s Geometry and Philosophy of Space  
Advisors: M. Mugnai (SNS), M. Friedman (Stanford University), R. Arthur  
(McMaster University), E. Knobloch (Technische Universität Berlin)
- 2006 M.A. (Laurea) in Mathematics, Università “La Sapienza”, Roma (110/110)  
with a dissertation on Thurston’s Geometrization Conjecture  
Advisors: C. De Concini, C. Petronio
- 1999 M.A. (Laurea) in Philosophy, Università “La Sapienza”, Roma (with honors)  
with a dissertation on the Theory of Essence in Hegel’s Logic  
Advisors: G. Sasso, M.M. Olivetti
- 1994 Maturità Classica (60/60)

## SHORTER FELLOWSHIPS, GRANTS AND QUALIFICATIONS

- 2022 *Médaille de bronze du CNRS*, medal for research excellence in France
- 2022 *Guidobaldo Medal*, Università di Urbino
- 2021 *Habilitation à diriger des recherches*, Université de Paris Cité  
Committee: K. Chemla (CNRS), M. Friedman (Stanford), D. Garber (Princeton), J. Gray  
(London), O. Harari (Tel Aviv), M. Panza (CNRS), S. Rommevaux (CNRS).
- 2021 Habilitated as an Full Professor in Philosophy of Science in Italy
- 2020 Whitney J. Oates Fellow in the Humanities Council, Princeton University
- 2019 Visiting Professor, Suppes Center for History and Philosophy of Science, Stanford University
- 2018 Visiting Professor, Dept. of Logic and Phil. of Science, University of California Irvine
- 2017 Visiting Professor, Dept. of Philosophy, University of Urbino
- 2015 Visiting Professor, Scuola Normale Superiore, Pisa
- 2007 Visiting Scholar, Dept. of History and Philosophy of Science, Pittsburgh University
- 2005 Fellow of the Centro di Ricerca Matematica Ennio De Giorgi, Pisa
- 2002 DAAD Forschungsstipendium, Leibniz-Archiv, Hannover
- 1999-2000 Fellow of the Istituto Italiano per gli Studi Storici, Napoli

Shortlisted for the Society of Fellows at Princeton University (2006), and for Professorships in Early Modern Philosophy at the Universities of Notre Dame and Chicago, USA (2016).

## PUBLICATIONS

### BOOKS

I.1– *Geometry and Monadology. Leibniz’s Analysis Situs and Philosophy of Space*, Basel/Boston, Birkhäuser 2007. (676 pp.)

Reviewed, among others, by Daniel Garber in “Mind”, 119 (2010), pp. 472-78.

I.2– *Leibniz on the Parallel Postulate and the Foundations of Geometry*, Basel/Boston, Birkhäuser 2015. (199 pp.)

Reviewed, among others, by David Rabouin in “Archives de philosophie”, 81.3 (2018), pp. 75-77.

### EDITIONS

II.1– Translation, Introduction and Commentary of G. SACCHERI, *Euclide vindicato da ogni neo*, Pisa, Edizioni della Normale, 2011. (328 pp.)

Reviewed, among others, by Massimo Galuzzi in “Historia Mathematica”, 39 (2012), pp. 107-8,  
and Victor Pambuccian in “Mathematical Reviews”, (2012).

II.2– Introduction and Commentary to G. SACCHERI, *Euclid Vindicated from Every Blemish*, Basel/Boston, Birkhäuser 2014. (388 pp.) [English translation of II.1, with revised and extended commentary]

(II.3)– Introduction and Commentary to J.H. LAMBERT, *Theory of Parallel Lines*, Basel/Boston, Birkhäuser (under contract; forthcoming).

(II.4)– (with Javier Echeverría), Edition, Translation and Commentary to G.W. LEIBNIZ, *Commentaires sur les Éléments de Euclide*, “Mathesis”, Paris, Vrin (forthcoming).

(II.5)– Guest editor of volumes VII.9, 10 and 11 of G.W. LEIBNIZ, *Sämtlichen Schriften und Briefe*, Berlin-Brandenburgische Akademie der Wissenschaften and Akademie der Wissenschaften in Göttingen, de Gruyter (forthcoming).

### EDITED BOOKS

III.1– *Mathematizing Space. The Objects of Geometry from Antiquity to the Early Modern Age*, Basel/Boston, Birkhäuser 2015. (320 pp.)

Chapters by Henry Mendell, Alexander Jones, David Rabouin, Franco Farinelli, Gary Hatfield, Douglas Jesseph, Andrew Janiak, Daniel Garber, Graciela De Pierris, Jeremy Gray, Michael Friedman.

III.2– (with David Rabouin), *Special Issue of the “Revue d’Histoire des Sciences”, dedicated to Leibniz’s Dynamica*, 72, (2019).

Articles by Daniel Garber, Anne-Lise Rey, François Duchesneau, Mathieu Gibier, Andrea Costa, Enrico Pasini, Laurynas Adomaitis.

III.3– *Leibniz and the Structure of Sciences. Modern Perspectives on the History of Logic, Mathematics, Epistemology*, “Boston Studies in Philosophy and History of Science”, Berlin, Springer 2019. (298 pp.)

Chapters by Marko Malink, Anubav Vasudevan, Massimo Mugnai, Richard Arthur, Vincenzo De Risi, David Rabouin, Valérie Debuiche, Davide Crippa, Jürgen Jost, Nabeel Hamid.

(III.4)– (with Francesco Ademollo and Fabrizio Amerini), *Thinking and Calculating. Essays on Logic, its History and its Applications*, Berlin, Springer 2022 (accepted for publication, forthcoming).

Articles by Francesco Ademollo, Fabrizio Amerini, Maria Rosa Antognazza, Richard T.W. Arthur, Carla Bagnoli, Francesco Belardinelli, Sergio Bernini, Irene Binini, Andrea Borghini, Andrea Cantini, Graziana Ciola, Paolo Crivelli, Marcello D’Agostino, Vincenzo De Risi, Hykel Hosni, Giorgio Lando, Pierluigi Minari, Daniele Mundici, Calvin Normore, Chris Martin, Fabrizio Mondadori, Claude Panaccio, Enrico Pasini, Mario Piazza, Riccardo Strobino, Monica Ugaglia.

(III.5)– (with Sara Confalonieri), *History of Logic and Mathematics (16<sup>th</sup>-18<sup>th</sup> Centuries)* of the *Encyclopedia of the History of Sciences*, bilingual ed. English-French, London, ISTE-Wiley 2022 (under contract).

Chapters by Veronica Gavagna, David Rabouin, Catherine Goldstein, Sara Confalonieri, Sébastien Maronne, Antoni Malet, Arilès Remaki, Niccolò Guicciardini, Massimo Galuzzi, Shuyuan Pan, Xiaohan Zhou, Anuj Misra, Clemency Montelle, Kim Plofker, Ken’ichi Sato.

RESEARCH ARTICLES (printed or accepted for publication)

- IV.1– *Leibniz on Geometry. Two unpublished manuscripts with translation and commentary*, “The Leibniz Review”, 15, 2005, pp. 127-51.
- IV.2– *Leibniz around 1700. Three Texts on Metaphysics*, “The Leibniz Review”, 16, 2006, pp. 55-69.
- IV.3– *Leibniz’s analysis situs and the Localization of Monads*, in *Akten des IX. Internationalen Leibniz-Kongresses*, eds. H. Breger, J. Herbst and S. Erdner, Berlin, Akademie Verlag 2011, pp. 208-16.
- IV.4– *Leibniz on Relativity. The Debate between Hans Reichenbach and Dietrich Mahnke on Leibniz’s Theory of Motion and Time*, in *New essays on Leibniz reception in philosophy of science 1800-2000*, eds. Ralf Krömer and Yannick Chin-Drian, Basel/Boston, Birkhäuser 2012, pp. 143-85.
- IV.5– *Plotino e la Rivoluzione Scientifica. La presenza delle Enneadi nell’epistemologia leibniziana dello spazio fenomenico*, in *Il Platonismo e le Scienze*, eds. R. Chiaradonna and M. De Caro, Roma, Carocci, 2012, pp. 143-63.
- IV.6– *Arte e Scienza della Sfera. La nascita del concetto moderno di spazio fra la teoria rinascimentale della prospettiva e la geometria di Leibniz*, in *Sphaera. Forma, immagine e metafora fra medioevo ed età moderna*, eds. P. Totaro and L. Valente, Firenze, Olschki 2012, pp. 321-62.
- IV.7– *La dimostrazione kantiana del Quinto Postulato*, in *Kant und die Philosophie in weltbürgerlicher Absicht*, eds. S. Bacin, A. Ferrarin, C. La Rocca, M. Ruffing, Berlin, de Gruyter 2013, vol. 5, pp. 31-43.
- IV.8– *Francesco Patrizi e la nuova geometria dello spazio*, in *Locus-Spatium*, eds. D. Giovannozzi and M. Veneziani, Firenze, Olschki 2014, pp. 269-327.
- IV.9– *L’arte dello spazio. La nascita delle geometrie non euclidee e la teoria della prospettiva*, in *Il libro della natura. Scienze e filosofia da Copernico a Darwin*, ed. P. Pecere, Roma, Carocci 2015, vol. 1, pp. 219-72.
- IV.10– *The Development of Euclidean Axiomatics. The systems of principles and the foundations of mathematics in editions of the Elements from Antiquity to the Eighteenth Century*, “Archive for History of Exact Sciences”, 70 (2016), pp. 591-676.
- IV.11– *Leibniz on the Continuity of Space*, in *Vorträge des X. Internationalen Leibniz-Kongresses*, eds. W. Li et al., Hildesheim, Olms 2016, vol. 5, pp. 179-192.
- IV.12– *Francesco Patrizi’s Conceptions of Space and Geometry*, in *Boundaries, Extents and Circulations. Space and Spatiality in Early Modern Natural Philosophy*, eds. K. Vermeer, J. Regier, Basel/Boston, Springer 2016, pp. 55-106.
- IV.13– *Leibniz’s Geometry of Space and the Theory of Perspective*, in *Leibniz Lectures Leipzig*, vol. 3, eds. F. Buchholz, M. Schlegel, Leipzig, Leipziger Universitätsverlag 2018, pp. 67-90.
- IV.14– *Analysis Situs, the Foundations of Mathematics and a Geometry of Space*, in *The Oxford Handbook of Leibniz*, ed. M.R. Antognazza, Oxford, Oxford University Press 2019, pp. 247-58.
- IV.15– *Leibniz on the Continuity of Space*, in *Leibniz and the Structure of Sciences. Modern and New Essays on Logic, Mathematics, Epistemology*, ed. V. De Risi, “Boston Studies in Philosophy and History of Science”, Berlin, Springer 2019, pp. 111-69.
- IV.16– *Has Euclid proven Elements I, 1? The early modern debate on intersections and continuity*, in *Reading Mathematics in the Early Modern Europe. Studies in the Production, Collection, and Use of Mathematical Books*, ed. P. Beeley, Y. Nasifoglu, B. Wardhaugh, London, Routledge 2020, pp. 12-32.
- IV.17– *Gapless Lines and Gapless Proofs. Intersections and Continuity in Euclid’s Elements*, “Apeiron”, 54 (2021), pp. 233-59.
- IV.18– *Euclid’s Common Notions and the Theory of Equivalence*, “Foundations of Science”, 26 (2021), pp. 301-24.
- IV.19– *Geometria delle figure e geometria dello spazio*, in *Perché studiare la logica*, ed. E. Montuschi, P.D. Omodeo, Roma, Armando 2021, pp. 16-49.
- (IV.20)– *Euclid’s Fourth Postulate*, accepted for publication and forthcoming in “Science in Context”.
- (IV.21)– *Aristotle on Common Axioms*, in *Thinking and Calculating. Essays on Logic, its History and its Applications*, ed. F. Ademollo F. Amerini, V. De Risi, Berlin, Springer 2022 (accepted for publication and forthcoming).

MINOR ESSAYS, DICTIONARY ENTRIES, REVIEWS, ETC.

V.1– *L'Analysis Situs*, in *Leibniz*, “Les génies de la science”, 28 (2006), p. 92.

V.2– *Gerolamo Saccheri*, in *Enciclopedia italiana di scienze lettere ed arti. Il contributo italiano alla storia del pensiero. Ottava appendice*, ed. A. Clericuzio, Roma, Enciclopedia Treccani 2013, pp. 367-372.

V.3– Review of K. Chemla, R. Chorlay, D. Rabouin, eds., *The Oxford Handbook of Generality in Mathematics and the Sciences* (Oxford: OUP 2016), “Early Science and Medicine”, 22 (2017), pp. 399-403.

V.4– Review of R. Rashed, *Fermat et les débuts modernes de la géométrie* (Hildesheim: Olms 2018), “Historia Mathematica”, 48 (2019). <https://doi.org/10.1016/j.hm.2019.11.001>

## ORGANIZED CONFERENCES

– *Space, Geometry and the Imagination from Antiquity to the Early Modern Age*, a cooperation between the Max Planck Institute for the History of Science and the Centro di Ricerca Matematica “Ennio De Giorgi” (Scuola Normale Superiore, Pisa). Berlin, August 27-29, 2012

with Henry Mendell, Alexander Jones, David Rabouin, Franco Farinelli, Gary Hatfield, Douglas Jesseph, Andrew Janiak, Daniel Garber, Graciela De Pierris, Jeremy Gray, Michael Friedman

– (with Massimo Mugnai) *Geometry and Logic: The Shape of Mathematical Proofs from Antiquity to the Early Modern Age*, a cooperation between the Max Planck Institute for the History of Science and the Centro di Ricerca Matematica “Ennio De Giorgi” (Scuola Normale Superiore, Pisa). Pisa, June 17-19, 2013

with Ken Saito, Monica Ugaglia, Heike Sefrin-Weis, Orna Harari, Roshdi Rashed, Sabine Rommevaux, Paolo Freguglia, Paolo Mancosu, Massimo Mugnai, Alison Laywine, Andrew Arana, Victor Pambuccian, Claudio Bartocci

– *The Mechanization of Geometry from Antiquity to the Early Modern Age*, a cooperation between the Max Planck Institute for the History of Science and the Centro di Ricerca Matematica “Ennio De Giorgi” (Scuola Normale Superiore, Pisa). Berlin, June 23-25, 2014

with Reviel Netz, Antoni Malet, Marco Panza, Daniel Garber, Richard Arthur, George Smith, Helmut Pulte, Michael Friedman, Matthias Schemmel, Angela Axworthy

– (with Jürgen Jost) *Leibniz and Geometry*, a cooperation between the Max Planck Institute for the History of Science and the Max Planck Institute for the Mathematics in the Sciences (Leipzig). Leipzig, June 30 – July 1, 2014

with Eberhard Knobloch, Siegmund Probst, David Rabouin, Valérie Debuiche, Daniel Garber, Richard Arthur, Edward Slowik, Massimo Mugnai, Vincenzo De Risi

– *The Science of Space in the Early Modern Age*, Max Planck Institute for the History of Science. Berlin, July 6-8, 2015

with John Mumma, David M. Miller, Marius Stan, Valérie Debuiche, Delphine Bellis, Davide Crippa, Tal Glezer, Tzuchien Tho, Angela Axworthy

– (with Pirmin Stekeler-Weithofer *et al.*) *Theatrum naturae et artium. Leibniz und die Schauplätze der Aufklärung*, a cooperation between the Sächsische Akademie der Wissenschaften (Leipzig) and the University of Leipzig. Leipzig, September 28-30, 2016

with Robert Brandom, Maria Rosa Antognazza, Helmut Pulte, Ursula Goldenbaum, Monika Fick, Karin Reich, Mogens Lærke, Martin Mulsow, Veronika Albrecht-Birkner, Friedemann Stengel, Michael Multhammer, Udo Sträter, Vincenzo De Risi, Siegmund Probst, David Rabouin, Enrico Pasini, Pirmin Stekeler-Weithofer, Daniel Fulda, Anett Lütteken, Wolfram Malte Fues, Ingo Uhlig, Nadja Reinhard, Avi Lifschitz, Andreas Erb, Friedrich Waitz von Eschen, Hans Poser, Wenchao Li, Clemens Schwaiger, Marie-Hélène Quéval, Günther Arnold, Stefan Lorenz, Gregory Grämiger, Karin Löffler, Flemming Schock, Martin Saar, Andreas Blank, Luca Basso, Ansgar Lyssy, Alexandra Lewendoski, Eberhard Knobloch, Paolo Bussotti, Tzuchien Tho, Paolo Rubini, Harald Siebert

– (with Jürgen Jost) *Leibniz and the Sciences*, a cooperation between the Max Planck Institute for the Mathematics in the Sciences (Leipzig) and the University of Leipzig. Leipzig, November 14-16, 2016

with Eberhard Knobloch, Daniel Garber, Richard Arthur, Maria Rosa Antognazza, François Duchesneau, Justin Smith, Philip Beeley, André Wakefield, Martin Carrier, Jürgen Jost, Claus Kiefer

– (with Karine Chemla and Antoni Malet) *Mathematics and its Ancient Classics Worldwide: Translations, Appropriations, Reconstructions, Roles*, Mathematisches Forschungsinstitut Oberwolfach. Oberwolfach, May 30-June 5, 2021

with Naomi Aradi, Angela Axworthy, Philip Beeley, Sandra Bella, Sonja Brentjes, Karine Chemla, Sara Confalonieri, Pascal Crozet, Serafina Cuomo, Vincenzo De Risi, Michael N. Fried, Veronica Gavagna, Niccolò Guicciardini, Qi Han, Orna Harari, Jens Hoyrup, Matthieu Husson, Abram Kaplan, Zeinab Karimian, Agathe Keller, Eunsoo Lee, Antoni Malet, Thomas Morel, Razieh Mousavi, Pier Daniele Napolitani, Yelda Nasifoglu, Jeffrey A. Oaks, Shuyuan Pan, Jeanne Peiffer, Arilès Remaki, Courtney Ann Roby, Sabine Rommevaux, Eleonora Sammarchi, Ivahn Smadja, Ksenia Tatarchenko, Alexis Trouillot, Alexei Volkov, Roy Wagner, Xiaofei Wang, Xiaohan Zhou, Benjamin Wilck, Idit Chikurel, Nicholas Michel, Michael Friedman, Gianluca Longa, Riccardo Bellé, Gregg De Young, Reviel Netz, Mordechai Feingold, Catherine Goldstein, Yiwen Zhu.

## ORGANIZED WORKSHOPS AND SCHOOLS

– *Max Planck Colloquium 2011-2015*, Max Planck Institute for the History of Science

with Marius Stan, Alison Laywine, David Miller, Michael Friedman, Delphine Bellis, Valérie Debuiche, Bernardo Mota, John Mumma, Pietro Omodeo, Andrew Arana, Matthias Schemmel, Francesca Biagioli, Fabio Acerbi, Tal Glezer, Henny Blomme, Davide Crippa, Angela Axworthy, Henry Zepeda, Tzuchien Tho, Jacqueline Feke, Eduardo Giovannini, Claudio Bartocci, Sabine Rommevaux, Sara Confalonieri, Luca Guzzardi, Thomas Morel, Athanase Papadopoulos, Paolo Mancosu, Katherine Dunlop, Daniel Sutherland, Tawrin Baker, Hannes Matthiessen, Eunsoo Lee, Nabeel Hamid.

– *Kant and the Euclidean Tradition*, MPIWG. Berlin, April 24, 2013

with Daniel Sutherland, Jeremy Heis, Erik Banks

– *J.H. Lambert: Science and Epistemology*, MPIWG. Berlin, April 25, 2013

with Alison Laywine, Thomas Morel, Marteen Bullynck, Norbert Schappacher, Christophe Eckes, Paola Basso

– *Finite Geometry, Indivisibles and Minima from the Middle Age to the 18<sup>th</sup> Century*, MPIWG. Berlin, May 29, 2013

with Sander De Boer, Angelika Bönker-Vallon, Richard T.W. Arthur, Douglas Jesseph

– (with Angela Axworthy) *Geometrical, Astronomical and Geographical Notions of Space in the Renaissance*, MPIWG. Berlin, May 19, 2014.

with Matthias Schemmel, Henrique Leitao, Adam Mosley, Jean-Marc Besse, Anna De Pace, Michela Malpangotto

– (with Marco Panza and Davide Crippa) *Wallis and Barrow on Geometry and Space*, Université Paris Diderot – MPIWG. Berlin, May 26, 2015, and Paris, June 12, 2015.

with Philip Beeley, Niccolò Guicciardini, Jesper Lützen, Antoni Malet, Marco Panza, Siegmund Probst, Edward Slowik, Moredechai Feingold, Ian Stewart

– (with Jürgen Jost and Wenchao Li) *Leibniz Summer School*, MPI for Mathematics in the Sciences, and Hannover Universität. Leipzig, July 7-16, 2016.

with Daniel Garber, Maria Rosa Antognazza, Massimo Mugnai, Justin Smith, Vincenzo De Risi, Donald Rutherford

– (with David Rabouin) *Autour de la Dynamica de Leibniz*, SPHère. Paris, April 16, 2018.

with Daniel Garber, Mathieu Gibier, Andrea Costa, Enrico Pasini, François Duchesneau.

– (with Jürgen Jost) *Summer School on the Foundations of Geometry in Historical Perspective*, MPI for Mathematics in the Sciences. Leipzig, July 2-7, 2018.

with Jeremy Gray, Gerhard Heinzmann, Andrew Arana, Victor Pambuccian, Pierluigi Graziani, Vincenzo De Risi, Jürgen Jost

– *Euclid on the Road: Cross-Cultural Transmission, Translation and Transformation of the Elements*, MPIWG and SPHère. Berlin, October 29, 2018 / Paris, April 19, 2019 / Paris, December 13, 2019.

with Karine Chemla, Angela Axworthy, Jens Braarvig, Shuyuan Pan, Sonja Brentjes, Michalis Sialaros, Antoni Malet, Bernard Vitrac, Ugo Baldini, Eberhard Knobloch, Sabine Rommevaux, Shin Higashi.

– (with Michael Friedman) *Mathematics and Metaphysics in Lambert and Kant*, Suppes Center for History and Philosophy of Science, Stanford University. Stanford, March 1, 2019.

with Michael Friedman, Vincenzo De Risi, Daniel Sutherland, Jeremy Heis, Alison Laywine

- (with Mario Piazza and Fabrizio Amerini) *Logic, Ethics, and Modalities*, Scuola Normale Superiore. Pisa, May 21, 2019.  
with Maria Rosa Antognazza, Calvin Normore, Fabrizio Mondadori, Carla Bagnoli
- (with Andrew Arana and Paola Cantù) *Hilbert on the Foundations of Geometry*, Laboratoire SPHère. Paris, June 8, 2019.  
with Jamie Tappenden, Michael Detlefsen, Victor Pambuccian, Andrew Arana
- (with Jürgen Jost) *Summer School on the History of Space in Mathematics and Physics*, MPI for Mathematics in the Sciences. Leipzig, June 29 – July 4, 2020. [postponed]  
with Richard Ellis, Michael Friedman, Robert DiSalle, Jeffrey Weeks, Brigitte Falkenburg, Vincenzo De Risi, Jürgen Jost
- *The Principles of Demonstration in the Aristotelian Tradition. Greek, Arabic and Latin Interpretations of the Posterior Analytics*, Laboratoire SPHère. Paris, June 17, 2021.  
with Orna Harari, Riccardo Strobino, Amos Corbini
- *Les théories des axiomes au XVIIe siècle*, Laboratoire SPHère. Paris, June 13, 2022.  
with Élodie Cassan, Mogens Laerke, Arnaud Pelletier, Dana Jalobeanu, Vincenzo De Risi
- *Optics in the Seventeenth Century: New Perspectives*, Laboratoire SPHère. Paris, October 7, 2022.  
with Franco Giudice, Sophie Roux, Domenico Collacciani, Delphine Bellis, Dominique Raynaud

## INVITED TALKS AND LECTURES (selection)

- LESSICO INTELLETTUALE EUROPEO, ROMA; January 30-31, 2008: conference *Sphaera: Forma Immagine e Metafora fra Medioevo e Età Moderna*. “Spazio sferico e geometria della percezione”
- ARCHIVES HENRI POINCARÉ, NANCY; April 3-5, 2008: conference *The Reception of Leibniz in Science and Philosophy of Science 1800-2000*. “Time and Motion in Leibniz’s Metaphysics: the debate between Hans Reichenbach and Dietrich Mahnke”.
- SCUOLA NORMALE SUPERIORE, PISA; July 28-31, 2008: *Corso di Orientamento alla Laurea Magistrale*. “La nascita del concetto moderno di spazio e la teoria della prospettiva”
- UNIVERSITÀ DI BERGAMO; May 20-22, 2009: conference *Clio and Minerva: The Relations Between History and Philosophy of Science*. Invited discussant with Michael Friedman and George Smith.
- MATHEMATISCHES FORSCHUNGSINSTITUT, OBERWOLFACH; October 26-30, 2009. Workshop on Mathematical Symbolism.
- UNIVERSITÀ “LA SAPIENZA”, ROMA; December 16, 2009: talk at the Philosophy Department. “Kant e la geometria”
- ÉCOLE NORMALE SUPÉRIEURE, PARIS; March 8-10, 2010: conference *Intersections between Mathematics and Philosophy in the Thought of Leibniz*. “Leibniz and Kant on the Parallel Postulate”
- UNIVERSITÀ DI PISA; May 22-26, 2010: *XI. Internationaler Kant-Kongress*. “The Kantian Proof of the Fifth Postulate”
- UNIVERSITÉ PARIS DIDEROT; May 30, 2011.  
Discussant in a Reading Seminar on my book *Geometry and Monadology*, with D. Rabouin, J.-P. Anfray, J.-P. Alcántara, V. Debuiche,
- VRIJE UNIVERSITEIT AMSTERDAM; August 2-5, 2011: conference *The Classical Model of Science*. “Proving an Axiom qua Axiom. On the Mathematical Epistemology of Gerolamo Saccheri”
- HANNOVER UNIVERSITÄT; September 26-30, 2011: *IX. Internationaler Leibniz-Kongress*. “Leibniz’s *Analysis Situs* and the Localization of Monads”
- HERZLIYA, ISRAEL; October 24-27, 2011: *Fechner Day 2011*. “Imagination and Geometry: Remarks on Kant’s Theory of Space Perception”
- NOTRE DAME UNIVERSITY (USA); November 3-6, 2011: *Midwest PhilMath Workshop*. “Proving an Axiom qua Axiom. On the Mathematical Epistemology of Gerolamo Saccheri”
- ISTITUTO NAZIONALE DI STUDI SUL RINASCIMENTO, FIRENZE; December 15-17, 2011: conference *Il concetto di ‘potenza’ in età moderna*. “Potenzialità e attualità degli oggetti geometrici nella prima età moderna”
- MAX PLANCK INSTITUTE FOR THE HISTORY OF SCIENCE, BERLIN; April 14, 2012: *Institute Colloquium*. “The meaning of mathematical principles in the Early Modern Age: Philosophy and Mathematics”
- OBSERVATOIRE DE PARIS AND UNIVERSITÉ PARIS DIDEROT; June 21-23, 2012: conference *Spaces, Knots and Bonds: at the crossroads between early modern “magic” and “science”*.

“The Birth of Space in the Renaissance: from Metaphysics to Geometry”  
 LESSICO INTELLETTUALE EUROPEO, ROMA; January 3-5, 2013: *Locus/Spatium: XIV International Colloquium*.  
 “Francesco Patrizi e la nuova geometria dello spazio”

CENTRE D'HISTOIRE DES SCIENCES ET DES PHILOSOPHIES ARABES ET MÉDIÉVALES, PARIS; March 21, 2013: seminar *Philosophy and Mathematics*.  
 “The Arabic Attempts to Prove the Parallel Postulate and their Early Modern Reception”

LEIBNIZ-ARCHIV, HANNOVER; May 2, 2013.  
 “Leibniz’s unpublished papers on the Parallel Postulate”.

UNIVERSITÉ PARIS-DIDEROT; June 4, 2013: *PhilMath Intersem 4*.  
 “What does it mean to (indirectly) prove the Parallel Postulate? Some developments in mathematical epistemology from Euclid to Lambert”

SCUOLA NORMALE SUPERIORE, PISA; October 28, 2012: Inaugural lecture of the *Sodalitas Leibnitiana*.  
 “*Multa tentavi, et video ne hoc quidem facile demonstrari posse*. Leibniz e il postulato delle parallele”

UNIVERSITÀ DI URBINO; October 29-31, 2013: conference *Mathematics, Physics and Logic at the Crossroads. II. Berlin-Urbino Workshop*.  
 “Leibniz’ theory of time and causality”

SISSA, TRIESTE; November 14-16, 2013; conference *Ideas of point*.  
 “*Constitui, dico, non componi*. Leibniz on points and space”

BERGISCHE UNIVERSITÄT WUPPERTAL; April 16-17, 2014: seminar of the *Interdisziplinäre Zentrum für Wissenschafts- und Technikforschung*.  
 “Mathematizing Space. The object of geometry from figures to space”

ÉCOLE NORMALE SUPÉRIEURE, PARIS; June 2, 2014: seminar *Philosophie et mathématiques*.  
 “Mathematizing Space. The object of geometry from figures to space”

UNIVERSITEIT GHENT; July 3-6, 2014: HOPOS 2014.  
 “Leibniz and non-Euclidean Geometry”

HUMBOLDT UNIVERSITÄT, BERLIN; July 10-12, 2014: conference *Aspects of Apollonius’ Conic Sections* of the Excellence Cluster TOPOI.  
 “Apollonius’s Book Six of the Conics and its Reception in the Early Modern Age”

STANFORD UNIVERSITY; February 6, 2015. Conference *Leibniz’s World* at the Suppes Center for History and Philosophy of Science.  
 “Leibniz and the Localization of Monads”

UNIVERSITY OF CALIFORNIA IRVINE; February 13, 2015: talk at the LPS Department.  
 “Leibniz’s Geometry of Space”

MCGILL UNIVERSITY, MONTRÉAL; February 20, 2015: talk at the Philosophy Department.  
 “The Foundations of Geometry in the Early Modern Period”

MCMASTER UNIVERSITY, HAMILTON (Canada); February 27, 2015: *McMaster Speaker Series*.  
 “The Development of Euclidean Axiomatics”,

PRINCETON UNIVERSITY; March 26, 2015: talk at the Philosophy Department.  
 “Leibniz’ Epistemology of Geometry”

HISTORY OF SCIENCE SOCIETY OF COPENHAGEN; June 16, 2015.  
 “Lambert’s Theory of Definitions”

UNIVERSITÉ PARIS-DIDEROT; June 15, 2015: conference *Les éditions et réécritures des Eléments d’Euclide et la question des fondements*.  
 “Axioms and Postulates in Early Modern Edition of the *Elements*”

ARCHIVES HENRI POINCARÉ, Nancy; June 25-25, 2015: conference *1750-1850: ruptures et continuités en géométrie*.  
 “The Theory of Parallels in 18th-century Germany”

UNESCO, PARIS; September 14-15, 2015: conference *The Islamic Golden Age of Science for an actual knowledge-based society*.  
 “Ibn al-Haytham on the Foundations of Geometry”

NOTRE DAME UNIVERSITY (USA); February 12, 2016: talk at the Philosophy Department.  
 “Magnitude and Structure: Geometry and Philosophy of Space in the Early Modern Age”,

PRINCETON UNIVERSITY; March 4, 2016: talk at the Philosophy Department.  
 “Leibniz’s Theory of Space”

UNIVERSITY OF BUCHAREST; March 15-18, 2016: *Bucharest Master Class on “Principles in Early Modern Thought”*.  
 “The Meaning of Principles in Ancient Mathematical Texts”

UNIVERSITÀ DI TRENTO; May 23, 2016: conference *Calculus: Philosophical visions for Mathematics*.  
 “Leibniz and non-Euclidean Geometry”

UNIVERSITÉ PARIS-DIDEROT; June 2, 2016: *PhilMath Intersem 7*  
 “The Axiomatization of Space in the Modern Editions of Euclid’s *Elements*”

OXFORD UNIVERSITY; June 9, 2016: conference *John Wallis (1616-1703). Mathematics, Music Theory, and Cryptography in 17th Century Oxford*.  
 “John Wallis on the Foundations of Geometry”

TEL AVIV UNIVERSITY; June 20-23, 2016: *Critical Connections - An International Kant Conference*.  
 “Kant’s Theory of Space and Empirical Schematism”

HANNOVER UNIVERSITÄT; July 18-23, 2016: *X. Internationaler Leibniz-Kongress*.

“Leibniz on the Continuity of Space”  
 UNIVERSITÀ DI MILANO; October 7-8, 2016: conference *Leibniz and the Sciences*.  
 “Leibniz on the Continuity of Space”

UNIVERSITÀ DI PAVIA; October 9, 2016: *UMI Conference*.  
 “Saccheri’s spherical geometry”

HUMBOLDT UNIVERSITÄT BERLIN; November 17-18, 2016: conference *On Mathematata: Commenting on Ancient Greek and Arabic Mathematical Texts*.  
 “The Early Modern Editions of Euclid”

SARTON CENTER FOR HISTORY OF SCIENCE, GHENT; February 2, 2017.  
 “Francesco Patrizi’s Influence on the Thought of Newton”

UNIVERSITÀ DI MILANO; April 12, 2017: talk at the Philosophy Department.  
 “Diagrams and Proofs in Euclid”

UNIVERSITÉ PARIS-DIDEROT; May 19, 2017: conference *Mathématiques arabes et Mathématiques à la Renaissance*.  
 “The use of movement in geometry from Antiquity to the Renaissance”

COHN INSTITUTE, TEL AVIV; June 12, 2017.  
 “Salomon Maimon, neo-Kantianism, and the Early Reception of Kant’s Philosophy of Mathematics”

FREIE UNIVERSITÄT, BERLIN; June 29 - July 1, 2017: conference *Visual Reasoning and Intuition in Mathematics*.  
 “Kant on Synthetic *a priori* Judgments and Diagrammatic Inferences”

UNIVERSITÀ DI TRENTO; July 13-14, 2017: *Trento Master Class on Philosophy of Mathematics: History, Theories and Practice*.  
 “The Meaning of Axioms from Antiquity to the Early Modern Age”

ARCHIVES HENRI POINCARÉ, NANCY; October 5-7, 2017: *French Phil Math Workshop 9*.  
 “Space and Figure: Diagrammatic Inferences and the Foundations of Geometry in the Early Modern Age”

IHPST, PARIS; October 16, 2017.  
 “Continuity and the Foundations of Geometry: The Euclidean Tradition”

UNIVERSITY OF KOBE, JAPAN; November 17, 2017.  
 “Mathematizing Space. The Metaphysics of Space and its Relation with Geometry in the Early Modern Age”

JAPANESE LEIBNIZ SOCIETY, TOKYO; November 19, 2017.  
 “Leibniz’s Analysis Situs and the Localization of Monads”

UNIVERSITY OF TOKYO; November 20, 2017.  
 “Proving Axioms in the Early Modern Age: Leibniz’s Program”

ALL SOULS COLLEGE, OXFORD; December 14-15, 2017: conference *Reading Euclid in the early modern world*.  
 “The Development of Euclidean Axiomatics”

COLLÈGE INTERNATIONAL DE PHILOSOPHIE, PARIS; January 25-27, 2018: conference *When form becomes substance: power of gestures, diagrammatical intuition and phenomenology of space*.  
 “The Axiomatization of Space in the Early Modern Age”

UNIVERSITY OF CALIFORNIA IRVINE; February 7, 2018: talk at the HPS Department.  
 “On the Transformation of Diagrams in Early Modern Mathematical Texts”

STANFORD UNIVERSITY; February 27, 2018: talk at the Philosophy Department.  
 “Drawing Lines through Rivers and Cities: Postulates in Ancient Mathematics”

UNIVERSITY OF CALIFORNIA IRVINE; March 2, 2018: talk at the HPS Department.  
 “On the Meaning of Ancient Postulates”

ALL SOULS COLLEGE, OXFORD; April 19-20, 2018: conference *Reading Mathematics in the Early Modern World*.  
 “Continuity and the foundations of geometry: the Euclidean tradition”

UNIVERSITY OF BRISTOL; April 23, 2018: conference *Leibniz & the Foundations of Physics*.  
 “Leibniz’s True Motion and Newton’s Absolute Space”

OXFORD UNIVERSITY; June 9, 2018: conference *From Space to Spacetime* of the Centre for the History and Philosophy of Physics.  
 “From Substance to Function: the Structure of Space in Leibniz and Newton”

GRONINGEN UNIVERSITEIT; July 9-12, 2018: HOPOS 2018.  
 “From Definitions to Axioms: The Meaning of Geometrical Principles from Euclid to Hilbert”

VIENNA UNIVERSITÄT; November 15, 2018: *Science Café*  
 “Johann Lambert’s Epistemology of Axioms”

LABORATOIRE SPHÈRE, PARIS; November 19-23, 2018: *Seminaire Histoire des mathématiques*.  
 “Gaps in Lines and Proofs: Euclid’s Theory of Intersections”

LABORATOIRE SPHÈRE, PARIS; January 14, 2019: *Seminaire Histoire des sciences*.  
 “Jean-Marie Legendre on the Foundations of Geometry”

PITZER COLLEGE, CALIFORNIA; February 11, 2019: *Orange County Seminar in Philosophy of Mathematics*.  
 “Motion and Isotropy in Euclidean Geometry”



CHAPMAN UNIVERSITY, CALIFORNIA; February 12, 2019: talk at the Philosophy Department  
 “Euclidean and Modern Geometry”

STANFORD UNIVERSITY; March 1st, 2019: conference *Mathematics and Metaphysics in Lambert and Kant* of the Suppes Center for History and Philosophy of Science.  
 “Lambert’s Phenomenology”

UNIVERSITÀ DI VENEZIA; May 30, 2019: conference *Ordering the world: Logical and epistemological perspectives on science, nature and society*.  
 “The meaning and evolution of the notion of a Postulate in geometry”

OXFORD UNIVERSITY; June 3-4, 2019: conference *Reading the Classics of Science: historical and anthropological perspectives*.  
 “Leibniz Reader of Euclid”

VIENNA UNIVERSITÄT; August 1-3, 2019: conference *Origins of Structuralism*.  
 “Leibniz, Lambert and the 18th-Century Origins of Structuralism”

UNIVERSITY OF PRAGUE; August 12-16, 2019: plenary talk at the *Logic Colloquium (Summer Meeting of the Association of Symbolic Logic)*.  
 “History of Logic and History of Geometry”

UNIVERSITÉ DE STRASBOURG; September 23, 2019: talk at the Mathematics Department.  
 “Diagram-based practices in Ancient Mathematics”

LABORATOIRE SPHÈRE, PARIS; September 28-29, 2019: conference *Leibniz’s Principle of Identity of Indiscernibles and its Repercussion in Physics and Mathematics*.  
 “Glückliche Zeiten. Leibniz’s principle of indiscernibles and the symmetries of space”

UNIVERSITÉ DE NANTES; November 22, 2019.  
 “Space and Geometry in the Renaissance”

ETH, ZÜRICH; January 18-21, 2020: plenary talk at the 2020 conference of the *Association for the History of Mathematical Practice*.  
 “Mathematical Practice and the History of Epistemology”

LABORATOIRE SPHÈRE, PARIS; February 14, 2020: *Seminaire Histoire des mathématiques*.  
 “The Discovery of non-Euclidean Geometry. Johann Lambert and Modern Axiomatics” [cancelled]

KU NIJMEGEN; June 5, 2020: talk at the Philosophy Department.  
 “Francesco Patrizi’s Atomism”

VIENNA UNIVERSITÄT; February 24-26, 2021: conference *Modern Geometry - Origins and Foundations*.  
 “Theories of Angles and Euclid’s Fourth Postulate”

PARIS SORBONNE; March 25-27, 2021: *Quatrième congrès de la Société d’études leibniziennes de langue française*  
 “Leibniz lecteur d’Euclide”

MATHEMATISCHES FORSCHUNGSINSTITUT OBERWOLFACH; May 30- June 5, 2021: *Mathematics and its Ancient Classics Worldwide: Translations, Appropriations, Reconstructions, Roles*.  
 “The Paradigm of Science: Axiomatic Methods in the Euclidean Tradition”

ETH, ZÜRICH; June 24-25, 2021: conference *The Development of 19<sup>th</sup>-Century Geometrical Knowledge: Projective Geometry, Duality, Reflection*  
 “The Discovery of Non-Euclidean Geometry”

CHAPMAN UNIVERSITY, CALIFORNIA; June 30- July 3, 2021: *Sixth International Conference of the Association for the Philosophy of Mathematical Practice*.  
 “Common Axioms in Euclid and Aristotle”

UNIVERSITÀ DI ROMA “LA SAPIENZA”; September 30- October 1, 2021: conference *Borelli, Reloaded: Contexts and Networks in Seventeenth Century Italy*.  
 “Euclides Pervolutus. Borelli on the Foundations of Geometry”

UNIVERSITÀ DI TRENTO; October 14: talk at the Philosophy Department.  
 “Diagrams in Mathematics”

UNIVERSITÀ DI VENEZIA; November 2: talk at the Philosophy Department.  
 “A History of Diagrams in Geometry”

LABORATOIRE SPHÈRE, PARIS; November 17, 2021: talk at the *Atelier Mathesis*  
 “A Survey of Leibniz’ Unpublished Manuscripts on Analysis Situs from the 1680s”

VIENNA UNIVERSITÄT; January 13-15, 2022: conference *Modern Geometry - Origins and Foundations (Part 2)*.  
 “The Discovery of Non-Euclidean Geometry and the Beginnings of Modern Mathematics”

LABORATOIRE SPHÈRE / CHAIRE D’EXCELLENCE BLAISE PASCAL, PARIS; February 17, 2022.  
 “The Infinite in the Foundations of Geometry from Kant to Gauss”

PRINCETON-BUCHAREST SEMINAR IN EARLY MODERN PHILOSOPHY; March 15, 2022.  
 “A Hidden Source of Leibniz’ Theory of Space”

UNIVERSITÀ DI MILANO; March 16, 2022: talk at the Philosophy Department.  
 “Newton e la genesi dello spazio leibniziano”

UNIVERSITÀ DI MILANO; March 17, 2022: Seminar “Federigo Enriques”.  
 “Figure tracciate nell’acqua. Lo sviluppo dell’assiomatica da Euclide a Gauss.”

HARVARD UNIVERSITY, BOSTON; March 29, 2022: talk at the Philosophy Department.

“Leibniz’ Theory of Space”

PRINCETON UNIVERSITY; April 4 - 8, 2022: Whitney J. Oates Lectures at the Council of Humanities.

“Picturing Mathematicians: A History of Geometrical Diagrams and Philosophy of Space”

“The Paradigm of Science: Axiomatic Methods from Euclid to Gauss”

“The Anatomy of Space: Pure Intuition and Non-Analytic Judgments in Lambert and Kant”

LABORATOIRE SPHÈRE, PARIS; May 4, 2022: talk at the *Atelier Mathesis*

“The Birth of Leibniz’ Relational Theory of Space”

UNIVERSITÀ DI URBINO; May 12, 2022: *lectio magistralis*

“Picturing Mathematics”

MAX-PLANCK-INSTITUT FÜR MATHEMATIK IN DER WISSENSCHAFTEN, LEIPZIG; May 16-25, 2022: conference *Mathematical Concepts in the Sciences and Humanities*

“Leibniz’ Theory of Space”

UNIVERSITÉ AIX-MARSEILLE AND CENTRE GILLES GASTON GRANGER, MARSEILLE; May 23-24, 2022: workshop *Axiomatic Definitions*

“Leibniz’ Real and Essential Definitions”

UNIVERSITÉ DE PARIS CITÉ; June 7, 2022: *PhilMath Intersem 12*

“Common Axioms in Euclid and Aristotle”

LABORATOIRE SPHÈRE, PARIS; June 13, 2022: workshop *Les théories des axiomes au XVIIe siècle*

“The Axiomatic Method in Late Scholasticism”

UNIVERSITY OF CALIFORNIA IRVINE; June 20-23, 2022: conference *HOPOS*

“Leibniz: from Absolute Space to Relational Space”

UNIVERSITY OF CHICAGO; October 17, 2022: talk at the Philosophy Department.

“Towards a History of Axioms in Mathematics”

DE WULF-MANSION CENTRE OF THE KU LEUVEN; November 18, 2022: workshop *Premodern Mathematical Thought*

“The Theory of Axioms in the Middle Ages”

## AFFILIATIONS AND PROFESSIONAL SERVICE

- Chief Editor of the Series *Frontiers in the History of Science*, Birkhäuser (7 volumes currently in preparation, 1 volume published).
- Guest Editor in chief of volumes VII, 9-11 (Geometrical Papers, 1677-1716) of the Academy Edition of Leibniz’s *Gesammelte Werke* (Leibniz-Archiv Hannover; Göttingen Akademie der Wissenschaften; Berlin Akademie der Wissenschaften).
- Member of the Editorial Board of the journal *Arabic Sciences and Philosophy* (Cambridge University Press).
- Member of the Advisory Board of the journal *Physis. Journal of the Italian Society for the History of Science* (Firenze, Olschki).
- Member of the *Comité d’évaluation 27* “Culture, Création, Patrimoine” of the French *Agence Nationale de la Recherche*.
- Board member of the GDR “Histoire des mathématiques”, France.
- Member of the Director’s Board of the Laboratoire SPHère (CNRS).
- Organizer of the series of seminars “Histoire des mathématiques de l’antiquité à l’âge classique” (with P. Crozet and S. Rommevaux) and “Axiomes et définitions” (with A. Arana, P. Cantù, G. Crocco), CNRS, France.
- Co-organizer of the *Seminaire Henri Poincaré* in Paris.
- Responsible (with S. Rommevaux) of the seminars offered by SPHère at the Master Program in History of Mathematics of the Université de Paris (2017-2020).
- Board Member of the *Sodalitas Leibnitiana* (Italian Leibniz Society). Member of the *Société d’études leibniziennes de langue française*. Member of the *Leibniz Society of North America*. Member of the *Società Italiana di Storia della Scienza*. Member of the *Association for the Philosophy of Mathematical Practice*.

- Referee and/or advisor for *The Leibniz Review*, *Centaurus*, *Historia Mathematica*, *British Journal for the History of Philosophy*, *Foundations of Science*, *Lexicon Philosophicon*, *Early Science and Medicine*, *Archiv für Geschichte der Philosophie*, *Revue d'histoire des sciences*, *Journal for the History of Philosophy*, *Journal for General Philosophy of Science*, *Studies in History and Philosophy of Science*, *Rivista UMI*, *Journal of Early Modern Studies*, *Archives internationales d'histoire des sciences*, *Ergo*, *Annals of Science*, *Revue de métaphysique et de morale*; *Oxford University Press*, *Springer Verlag*, *Brill*; *Israel Science Foundation*, *Alexander von Humboldt Stiftung*, *Société Française d'Histoire des Sciences et Techniques*.

## TEACHING

2006-2007	On Frege's Philosophy of Mathematics, two terms, Scuola Normale Superiore (teaching assistant)
2006-2007	On Leibniz's Metaphysics and Natural Philosophy, two terms, Scuola Normale Superiore (t.a.)
2007-2008	On David Lewis's <i>Parts of Classes</i> , one term, Scuola Normale Superiore (t.a.)
2008-2009	On Modal Logic, one term, Scuola Normale Superiore (t.a.)
2008-2009	On Poincaré's Philosophy of Mathematics, one term, Scuola Normale Superiore (t.a.)
2015	On Kant's Philosophy of Mathematics, one term, Scuola Normale Superiore
2016-2017	On Leibniz's Theory of Space, one term, University of Leipzig
2016-2017	On Kant's Theory of Space, one term, University of Leipzig
2016-2017	On History and Epistemology of Geometry, one term, Università di Urbino
2019	On Lambert's Epistemology and Metaphysics, Graduate Seminar, Stanford University
2018-2020	Graduate Seminars in History and Philosophy of Science, and Mathematics, Université de Paris