Eduardo N. Giovannini

Consejo Nacional de Investigaciones Científicas y Técnicas
Universidad Nacional del Litoral
Ciudad Universitaria UNL
3000, Santa Fe, Argentina

https://www.eduardogiovannini.org/
Orcid ID: 0000-0002-2774-2800

Appointments

1. **Associate Researcher**, National Scientific and Technical Research Council (CONICET), Argentina. 11/2020–present.[1]

2. **Lise Meitner Postdoctoral Fellow**, Department of Philosophy, University of Vienna, Vienna, Austria, 02/2020–01/2022.

3. **Assistant Professor**, Department of Humanities and Social Sciences, Universidad Nacional del Litoral, Santa Fe, Argentina, 09/2019–present.

4. Assistant Researcher, National Scientific and Technical Research Council (CONICET), Argentina. 04/2016–10/2020.

5. Postdoctoral Research Fellow, National Scientific and Technical Research Council (CONICET), Argentina, 04/2013–03/2016.

6. Doctoral Research Fellow, National Scientific and Technical Research Council (CONICET), Argentina, 04/2008–03/2013.

Education

– Ph.D. (with distinction), Philosophy, University of Buenos Aires, 2013; *Dissertation:* David Hilbert's Axiomatic Conception of Geometry (in Spanish).

– "Licenciado en Filosofía" (B.A. + M.A) (with distinction), Philosophy, Universidad Nacional del Litoral (Argentina), 2008; *Thesis:* Kant's Transcendental Deduction of the categories: a rational reconstruction (in Spanish).

Areas of Specialization

History and Philosophy of Mathematics; History and Philosophy of Logic; Philosophy of Science.

Areas of Competence

Early Analytic Philosophy; Epistemology.

Visiting positions

1. Visiting Scholar, Munich Center for Mathematical Philosophy, Ludwig-Maximilians-Universität München, Munich, Germany, 09/2021–10/2021.

2. Visiting Scholar, Department of Philosophy, University of Vienna, Austria, 06/2018–08/2018.

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[1]Permanent research position comparable to "Chargé de recherche" at CNRS (France).

3. JESH Postdoctoral Fellow, Department of Philosophy, University of Vienna, Austria, 04/2017–09/2017.

4. Visiting Scholar, Department of Philosophy, University of California at Berkeley, Berkeley, CA, USA, 08/2014–12/2014.

5. Postdoctoral Research Fellow, Max Planck Institute for the History of Sciences, Berlin, Germany, 06/2013–08/2013.

6. Visiting Doctoral Fellow, Institute of Philosophy, University of Paderborn, Germany, 10/2009–09/2010.

Grants & Awards

1. *Fulbright Visiting Scholar Program.* Department of Philosophy, Princeton University, USA, Spring Semester 2024 (postponed)

2. *Lise Meitner Fellowship.* Austrian Science Fund (FWF), Austria, 02/2020–01/2022.

3. *Ernst Mach Fellowship.* Austrian Agency for Education and Internationalisation (OeAD), Austria. (*Declined* to take up Lise-Meitner position)

4. *Joint Excellence in Science and Humanities Research Grant* (JESH), Austrian Academy of Science (ÖAW), 04/2017 - 08/2017.

5. *Postdoctoral Fellowship*, National Scientific and Technical Research Council (CONICET, Argentina), 04/2013–03/2016.

6. *Postdoctoral Research Grant*, Max Planck Institute for the History of Sciences, Berlin (Max Planck Society), 06/2013–08/2013.

7. *Doctoral Fellowshi*p, German Academic Exchange Service (DAAD), 06/2009–09/2010.

8. *Doctoral Fellowship*, National Scientific and Technical Research Council (CONICET, Argentina), 04/2008–03/2013.

9. *Student Travel Award*, Association for Symbolic Logic, 05/2011 and 04/2013.

Funded Research Projects

Principal Investigator (PI)

1. *The Logico-philosophical Foundations of Geometry: Historical and Systematic Perspectives*, National Agency for Scientific and Technological Promotion (Argentina), 04/2023–04/2025, $ 1.740.000 (ARS).

2. *Non-classical Logicism: Geometry, Ramsification, and Interpretability from Russell to Carnap*, National Scientific and Technical Research Council (CONICET, Argentina), 01/2023–12/2024, $ 650.000 (ARS).

3. *Contemporary debates on epistemic justification and its applications in formal and empirical sciences*, Universidad Nacional del Litoral (Argentina), 01/2021–12/2023, $ 270.000 (ARS).

4. *Purity and Abstraction in Modern Geometry: Historical and Philosophical Perspectives*, Lise Meitner Grant, Austrian Science Fund (FWF), Austria, 02/2020–01/2022, € 172.760 (EUR).

5. *Impossibility Results in Geometry: Historical and Systematic Perspectives*, National Agency for Scientific and Technological Promotion (Argentina), 03/2019–09/2021, $ 160.000 (ARS).

6. *Contemporary perspectives on realism in epistemology and philosophy of mathematics*, Universidad Nacional del Litoral (Argentina), 04/2017–03/2020, $ 56.000 (ARS).

Publications. [Orcid profile](#)

For a complete description, see my Full List of Publications.

Books

1. *David Hilbert y los fundamentos de la geometría (1891–1905)* [David Hilbert and the foundations of geometry (1891–1905)], College Publications, London, 2015, 336 pages.[2] Link

Under contract.

Giovannini, E., Haeusler, H., Lassalle-Casanave, A. *The Theory of Plane Area at the Crossroads. Philosophical, Historical, and Logical Perspectives.* Under contract with Springer Book Series: Epistemology, Logic, and the Unity of Science. Delivery date March 2024.

Journal articles (Selection of 10 key publications)

10. "From Magnitudes to Geometry and Back: De Zolt's Postulate", (with Abel Lassalle Casanave), ***Theoria*** (Stockholm), (2022), 88 (3), 629-652. DOI:10.1111/theo.12385

9. "De Zolt's Postulate: An Abstract Approach", (with Edward H. Haeusler, Abel Lassalle-Casanave & Paulo Veloso), ***The Review of Symbolic Logic***, (2022), 15 (1), 197-224. DOI:0.1017/S1755020319000339. Zbl:1504.03011

8. "Sobre el Postulado de De Zolt en tres dimensiones" [On De Zolt's Postulate in Three-dimensions], (with Edward H. Haeusler & Abel Lassalle-Casanave), *O Que nos Faz Pensar*, (2021), 29, 188-199. Doi: DOI:10.32334/oqnfp.2021n49a802

7. "David Hilbert and the foundations of the theory of plane area", ***Archive for the History of Exact Sciences***, (2021), 75, 649-698. DOI:10.1007/s00407-021-00278-z

6. "What are implicit definitions?", (with Georg Schiemer), ***Erkenntnis***, 86, 1661-1691. DOI:10.1007/s10670-019-00176-5

5. "On Comparison, Equivalence and Addition of Magnitudes", (with A. Lassalle Casanave & P. Veloso), *Principia: An International Journal of Epistemology*, (2019), 23(2), 153-173. DOI:10.5007/1808-1711.2019v23n2p153

4. "Bridging the Gap between Synthetic and Analytic Geometry: Hilbert's Axiomatic approach", ***Synthese***, (2016), 193 (1), pp. 31-70.[3] DOI:10.1007/s11229-015-0743-z. Zbl 1269.03002

3. "Geometría, formalismo e intuición: David Hilbert y el método axiomático formal" [Geometry, formalism and intuition: David Hilbert and the formal axiomatic method], *Revista de filosofía*, (2014), 39 (2), pp. 121-146. Journal link

2. "Completitud y continuidad en *Fundamentos de la geometría* de Hilbert: acerca del *Vollständigkeitsaxiom*" ["Completeness and Continuity in Hilbert's Foundations of Geometry: on the Vollständigkeitsaxiom"], *Theoria* (Madrid), (2013), 28: 76, 139-163. Journal link. Zbl 1269.03002.

1. 'Una imagen de la realidad geométrica': la concepción axiomática de la geometría de Hilbert a la luz de la *Bildtheorie* de Heinrich Hertz [A picture of geometrical reality: Hilbert's axiomatic conception of geometry under the light of Heinrich Hertz's Bildtheorie], *Crítica. Revista Hispanoamericana de Filosofía,* (México), (2012), 44, 27–53. Journal link.

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[2]Reviewed in *zbMATH*: Zbl 1329.01005.

[3]Listed as "Notable writing" in Mircea Pitici (ed.) *The Best Writing on Mathematics 2017*, Princeton, Princeton University Press, 2018, p. 204.

Chapters in Books & Collections (Selection)

5. "Theorematic Reasoning and Purity of Proofs", (with Javier Legris), in Elena Ficara, E. & Andrea Reichenberger (eds.), *Revisiting History and Philosophy of Logic and Mathematics*, College Publications, London. To appear.

4. "La nueva geometría axiomática: Hilbert" [The new axiomatic geometry: Hilbert], in José Ferreirós & María de Paz (eds.), *La génesis de la geometría*, Plaza y Valdés Editores, Madrid, pp. 209–236, 2023.

3. "A Working Mathematician between Philosophers: On the Logical Analysis of Magnitudes" (with Abel Lassalle Casanave), in Hermann E. Haeusler et al. (eds.), *A Question is More Illuminating than an Answer. A Festscrift for Paulo A. S. Veloso*, College Publications, London, pp. 120–135, 2021.

2. "Álgebra y clasificación de problemas geométricos: una herencia cartesiana" [Algebra and classification of geometrical problems], (with Davide Crippa), in Gisele Secco & Frank Sautter (eds.), *De Mathematicae atque Philosophicae Elegantia. Notas Festivas para Abel Lassalle Casanave*, College Publications, London, pp. 6–20, 2021. ISBN 978-1-848903-821

1. "Reflections on Kant's theory of geometrical concepts formation", in S. Bacin, A. Ferrarin, C. La Rocca & M. Ruffing (Eds.), *Kant and Philosophy in a Cosmopolitan Sense. Proceedings of the 11th International Kant–Congress. Band V*, De Gruyter, Berlin/New York, pp. 43–54, 2013.

Translations

3. Marco Panza. Qué podría haber sido la universalidad para Euclides. In Gisele Secco et al. (eds.), *De Mathematicae atque Philosophicae Elegantia. Notas Festivas para Abel Lassalle Casanave*, College Publications, Londres, pp. 133–143, 2021. Spanish translation of unpublished paper: What Universality Could Have Been for Euclid.

2. Paolo Mancosu and Andrew Arana. Sobre la relación entre la geometría plana y la geometria sólida. In. P. Mancosu, *Infinito, lógica, geometría.* London, College Publications, pp. 321-410, 2020. Spanish translation of Arana, A. & Mancosu, P. (2012). On the Relationship between Plane and Solid Geometry. *The Review of Symbolic Logic* 5(2), 294-353.

1. Johann v. Neumann: La fundamentación formalista de la matemática, *Metatheoria. Revista de Filosofía e Historia de la Ciencia*, (Buenos Aires), vol. 10, pp. 79-82, 2020. Spanish translation from German of von Neumann, J. (1931), "Die formalistische Grundlegung der Mathematik", *Erkenntnis* 2: 116-121

Presentations (Selection last five years)

1. Formal Content and Meaning in Mathematics, (with Georg Schiemer). *17th edition of the International Congress on Logic, Methodology and Philosophy of Science and Technology*, Buenos Aires, July 2023.

2. Hilbert's Early Semantics Revisited, (with Georg Schiemer), *14th Congress of the International Society for History of Philosophy of Science (HOPOS)*, Irvine, California, June 2022. (Virtual)

3. Geometry without numbers: Hilbert's axiomatic program reconsidered. *OCIE Seminar in the History and Philosophy of Mathematics and Logic*, Chapman University, Orange (CA), United States, April 29, 2022.

4. 'Purity of Method' in Geometrical Reasoning Revisited. *Logik Café*, Department of Philosophy, University of Vienna, Austria, January 24, 2022.

5. Hilbert's Early Views on Completeness and Categoricity. *Logic Colloquium*, Munich Center Mathematical Philosophy, Munich, Germany, October 28, 2021.

6. Hilbert's Early Metatheory Revisited, (with Georg Schiemer). *13th French Philosophy of Mathematics Workshop*, Université Côte d'Azur , Nice, France, October 7-9, 2021.

7. Categoricity and Interpretability: Hilbert's Early views. *Ninth Annual Conference of the Society for the Study of the History of Analytical Philosophy* (SSHAP2021), University of Vienna, July 14-16 , 2021. (Virtual).

8. From Euclidean to Hilbertian practice: the theories of plane area. *Joint BSHM – CSHPM/SCHPM Conference: People, Places, Practices.* Saint Andrews, July 12-14, 2021 (Virtual).

9. On the 'Cartesian' Significance of David Hilbert's Grundlagen der Geometrie" (con Davide Crippa). *International Workshop: Modern Geometry – Origins and Foundations*, University of Vienna, February 10-12, 2021 (Virtual).

10. Hilbert on Impossibility and Geometric Constructions. *International Workshop on History and Philosophy of Logic and Mathematics*, University of Paderborn, Germany. February 17-18, 2020

11. On the Cartesian significance of David Hilbert's Grundlagen der Geometrie. *5th International Meeting of the Association for the Philosophy of Mathematical Practice*, ETH Zürich, Switzerland, January 18-21, 2020.

12. Algebra and Classification of Geometrical Problems: A Cartesian Legacy. *XXIII Coloquio Conesul de Filosofía de las Ciencias Formales*, Rio de Janeiro Brasil, Octuber 2019.

13. Implicit definitions and the development of modern axiomatics, (with Georg Schiemer), *12th Congress of the International Society for History of Philosophy of Science (HOPOS)*, Groningen, July 09-12, 2018.

Conference organization

– Contributed Symposium: "From Geometry to Logic and Back: History, Philosophy, and Foundations" (co-organized with Georg Schiemer). *17th edition of the International Congress on Logic, Methodology and Philosophy of Science and Technology*, Buenos Aires, July 2023.

– International Workshop: "Modern Geometry and its Foundations" (co-organized with Georg Schiemer and Günther Eder). Department of Philosophy, University of Vienna, January 13-15, 2022. (Virtual)

– International Workshop: "Modern Geometry – Origins and Foundations" (co-organized with Georg Schiemer and Günther Eder). Department of Philosophy, University of Vienna, February 24-26, 2021. (Virtual)

– I Simposio de Filosofía de las Ciencias Formales del Litoral. Facultad de Humanidades y Ciencias, Universidad Nacional del Litoral, Santa Fe (Argentina), September 5-6, 2019.

– International Workshop: "Proofs and diagrams in logic and mathematics". Facultad de Humanidades y Ciencias, Universidad Nacional del Litoral, Santa Fe (Argentina), September 3, 2018.

– XIV Jornadas de Comunicación de Investigación en Filosofía. Facultad de Humanidades y Ciencias, Universidad Nacional del Litoral, Santa Fe (Argentina), Octuber 11-13, 2018.

Teaching

Key: [g] = graduate, [u] = undergraduate, [g=u] = combined graduate/undergraduate.

1. Universidad de Buenos Aires. *Philosophy of Geometry: current debates* [g]. Spring 2023

2. Universidad Nacional del Litoral. *Introduction to Logic* [u]. Spring 2023.

3. Universidad Nacional del Litoral. *Philosophy of Science* [u]. Spring 2023.

4. Universidad Nacional del Litoral. *Intermediate Logic* [u]. Fall 2023.

5. Universidad Nacional del Litoral. *Introduction to Logic* [u]. Spring 2022.

6. Universidad Nacional del Litoral. *Philosophy of Science* [u]. Spring 2022.

7. Universidad Nacional del Litoral. *Philosophy of Science* [u]. Spring 2020. (Virtual)

8. Universidad Nacional del Litoral. *Philosophy of Science* [u]. Spring 2019.

9. Universidad Nacional del Litoral. *Introduction to Logic* [u]. Spring 2019.

10. Universidad Nacional del Litoral. *Intermediate Logic* [u]. Fall 2019.

11. Universidad Nacional del Litoral. *Introduction to Logic* [u]. Spring 2018.

12. Universidad Nacional del Litoral. *Philosophy of Science* [u]. Spring 2018.

13. Universidad Nacional del Litoral. *Intermediate Logic* [u]. Fall 2018.

14. Universidad Nacional del Litoral. *Introduction to Logic* [u]. Spring 2017.

15. Universidad Nacional del Litoral. *Philosophy of Science* [u]. Spring 2017.

16. Universidad de la República (Uruguay). The Axiomatic Method in context: from Euclid to Hilbert [g]. Spring 2017.

17. Universidad Nacional del Litoral. *Introduction to Logic* [u]. Spring 2016.

18. Universidad Nacional del Litoral. *Intermediate Logic* [u]. Fall 2016.

19. Universidad Tecnológica Nacional (Argentina). Philosophy of Science [g]. Spring 2025

20. Universidad Nacional del Litoral. *Introduction to Logic* [u]. Spring 2015.

Service to profession

Editorial service

I have refereed books for *College Publications*, *Springer*, *Routledge* and papers for *Manuscrito*, *Dianoia*, *Journal for General Philosophy of Science*, *Mathrev Signos Filosóficos*, *Análisis Filosófico*, and *Revista Colombiana de Filosofía*.

Grants Committee

– Ph.D. Grant Committee. Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET). 10/2021–06/2023.

External Reviewer

– National Science Center, Poland. 2020

– National Agency for Scientific and Technological Promotion (Argentina). 2019–present.

Supervision, past undergraduate students

1. Mayra Huespe. Facultad de Humanidades y Ciencias, Universidad Nacional del Litoral. Supervisor. Thesis: Semantical and Epistemological Issues in Mathematical Structurlism (defended October 2021).

Supervision, current graduate students

1. Mayra Huespe. Ph.D. Student. Universidad de Buenos Aires. Supervisor.

Languages

- Spanish: native speaker.
- English (C1): *Toefl Test* (paper based). Score: 643,3. Test Date: 8th September 2008
- German (C1): *Test Daf*. Score: 5-5-4-4. Test Date: 22th July 2010.
- Italian: well-developed reading skills.
- French: well-developed reading skills.
- Portuguese: well-developed reading skills.

Professional Affiliations

International Association for the Philosophy of Mathematical Practice (APMP)

Association for Symbolic Logic (ASL)

International Society for the History of Philosophy of Science (HOPOS)

Grupo Conesul de Filosofia das Ciências Formais (GCFCF)

References

Paolo Mancosu, Professor, Department of Philosophy, University of California, Berkeley, USA.

John Baldwin, Professor Emeritus,Department of Mathematics, Statistics, and Computer Science, University of Illinois at Chicago.

Volker Peckhaus, Professor Emeritus, Institute of Philosophy, University of Paderborn, Germany.

Javier Legris, Professor, University of Buenos Aires/Conicet.

Abel Lassalle Casanave, Professor, Department of Philosophy, Federal University of Bahia, Brazil.

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