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Areas of specialisation

Gottlob Frege, Giuseppe Peano, History of Logic, Philosophy of Mathematics.

Areas of competence

Philosophy of Logic, Philosophy of Set Theory, Theories of Truth, Logic, Feminist Epistemology.

Academic appointments

- 2016 – 2017 **Lecturer**
Faculty of Philosophy, University of Barcelona (UB).
- 2017 – 2021 **Postdoctoral researcher**
Institute of Philosophy, Czech Academy of Sciences.
- 2021 – present **FCT junior researcher**
Centre of Philosophy of Sciences of the University of Lisbon (CFCUL), Faculty of Sciences, University of Lisbon (UL).

Education

- 2005 – 2009 **Degree** in Philosophy
Equivalent to **B.A.** in Philosophy, Faculty of Philosophy, University of Barcelona (UB).
- 2009 – 2010 **Master's Degree** in Analytic Philosophy
Equivalent to **M.A.**, Faculty of Philosophy, University of Barcelona (UB).
- 2010 – 2016 **Ph.D.** in Philosophy
Pure and Applied Logic Programme, Faculty of Philosophy, University of Barcelona (UB).
Title: “La Lógica de Gottlob Frege: 1879–1903”.
Ph.D. Supervisors: Calixto Badesa, José Martínez.
Examiners: Luis M. Valdés (University of Oviedo), Enrique Casanovas (UB), Marco Panza (Université Paris 1 - IHPST).

Publications

PEER-REVIEWED PAPERS

- 2017 BADESA, C.; BERTRAN-SAN -MILLÁN, J. (2017). Function and argument in *Begriffsschrift*. *History and Philosophy of Logic*, 38 (4), pp. 316–341 [DOI: [10.1080/01445340.2017.1354173](https://doi.org/10.1080/01445340.2017.1354173)].
- 2020 BADESA, C.; BERTRAN-SAN-MILLÁN, J. (2020). *Begriffsschrift*'s Logic. *Notre Dame Journal of Formal Logic*, 61 (3), pp. 409–440 [DOI: [10.1215/00294527-2020-0014](https://doi.org/10.1215/00294527-2020-0014)].
- 2021a BERTRAN-SAN-MILLÁN, J. (2021). Frege, Peano and the Interplay between Logic and Mathematics. *Philosophia Scientiae*, 25 (1), pp. 15–34 [DOI: [10.4000/philosophiascientiae.2831](https://doi.org/10.4000/philosophiascientiae.2831)].
- 2021b BERTRAN-SAN-MILLÁN, J. (2021). Frege, Peano and the construction of a logical calculus. *Logique et Analyse*, 253, pp. 3–22 [DOI: [10.2143/LEA.253.0.3289334](https://doi.org/10.2143/LEA.253.0.3289334)].
- 2021c BERTRAN-SAN-MILLÁN, J. (2021). *Lingua characterica* and *calculus ratiocinator*: The Leibnizian background of the Frege-Schröder polemic. *Review of Symbolic Logic*, 14 (2), pp. 411–446 [DOI: [10.1017/S175502031900025X](https://doi.org/10.1017/S175502031900025X)].
- 2022 BERTRAN-SAN-MILLÁN, J. (2022). Peano's structuralism and the birth of formal languages. *Synthese*, 200 (4) [DOI: [10.1007/s11229-022-03782-z](https://doi.org/10.1007/s11229-022-03782-z)].
- 2023 BERTRAN-SAN-MILLÁN, J. (2023). Peano's Geometry: From empirical foundations to abstract development. In CANTÙ, P.; SCHIEMER, G. (Eds.). *Logic, Epistemology, and Scientific Theories – From Peano to the Vienna Circle*. Cham: Springer, pp. 11–35 [DOI: [10.1007/978-3-031-42190-7_2](https://doi.org/10.1007/978-3-031-42190-7_2)].

OTHER PUBLICATIONS

- 2015 BERTRAN-SAN MILLÁN, J. (2015). Lógica como *lingua characterica* y lógica como *calculus ratiocinator*: La polémica entre Frege y Schröder. In DÍEZ, J.; GARCÍA-CARPINTERO, M.; MARTÍNEZ, J.; OMS, S. (Eds.). *Actas del VIII Congreso de la Sociedad de Lógica, Metodología y Filosofía de la Ciencia en España*. Barcelona, pp. 2–5.
- 2018a BERTRAN-SAN MILLÁN, J. (2018). Frege's adoption of the distinction between concept and object. In SABORIDO, C.; OMS, S.; GONZÁLEZ DE PRADO, J. (Eds.). *Actas del IX Congreso de la Sociedad de Lógica, Metodología y Filosofía de la Ciencia en España*. Madrid, pp. 16–18.
- 2018b BERTRAN-SAN MILLÁN, J. (2018). Frege's *Begriffsschrift* and Logicism. In ARAZIM, P.; LÁVIČKA, T. (Eds.). *The Logica Yearbook 2017*. London: College Publications, pp. 239–253.
- 2020 BERTRAN-SAN MILLÁN, J. (2020). Frege's Intellectual Life as a Logicist Project [Critical note of Jacqueline, D. (2019) *Frege: A Philosophical Biography*]. *Teorema*, 39 (2), pp. 127–138.

Talks

INVITED TALKS

- 12/2017 Frege's *Begriffsschrift* and Logicism
Prago-Viennese Workshop on the Philosophy of Mathematics, Czech Academy of Sciences, Prague (Czech Republic).
- 2/2019 Frege and Peano on axiomatization and symbolization
APA Central Division Meeting, American Philosophical Association (APA), Denver (US).
- 7/2019 Frege's *Begriffsschrift* and second-order logic
2nd Prague Workshop on Frege's Logic, Czech Academy of Sciences, Prague (Czech Republic).
- 2/2022 Peano's geometry: From empirical foundations to abstract development
Modern Geometry and its Foundations, University of Vienna, Vienna (Austria).
- 7/2023 Frege's early notion of function
Frege and the Emergence of Formalism, University of Vienna, Vienna (Austria).
- 10/2023 Peano's structuralism
Lisbon Workshop on the History of Logic, University of Lisbon, Lisbon (Portugal).

SEMINAR TALKS

- 5/2017 Frege's *Begriffsschrift* in Context
Cyklus Trattenbach-Jilská, Czech Academy of Sciences, Prague (Czech Republic).
- 2/2019 Frege's adoption of the distinction between concept and object
OCIE-HPML (Orange County & Inland Empire Group in History and Philosophy of Mathematics and Logic Meeting), University of California Riverside, Riverside (US).
- 3/2019 Frege's *Begriffsschrift* and second-order logic
AML Seminar, Czech Academy of Sciences, Prague (Czech Republic).
- 4/2019 Frege's *Begriffsschrift* in Context
Research Centre for Theory and History of Science, University of West Bohemia, Pilsen (Czech Republic).
- 2/2021 Russell and Peano on the Independence of the Axioms of Arithmetic
Cyklus Trattenbach-Jilská, Czech Academy of Sciences, Prague (Czech Republic).
- 3/2021 Russell, Peano y la independencia de los axiomas de la aritmética
Seminar of the Department of Logic, History and Philosophy of Sciences, National University of Distance Education, Madrid (Spain).

- 4/2021 Peano's structuralism
Logik Café, University of Vienna, Vienna (Austria).
- 7/2021 Peano's structuralism
Permanent Seminar, Centre for Philosophy of Science of the University of Lisbon (CFCUL), Lisbon (Portugal).
- 11/2021 Frege's *Begriffsschrift* and second-order logic
Seminário de Lógica Matemática (SLM), Center of Mathematics, Fundamental Applications and Operations Research (CMAFcIO), Lisbon (Portugal).
- 11/2023 Peano and the Birth of Formal Languages
Logik Café, University of Vienna, Vienna (Austria).
- 11/2023 Peano's structuralism
Seminário de Lógica Matemática (SLM), Center of Mathematics, Fundamental Applications and Operations Research (CMAFcIO), Lisbon (Portugal).
- 12/2023 Frege's early notion of function
METIS talk, National University of Distance Education, Madrid (Spain).

CONTRIBUTED TALKS

- 4/2014 Function and argument in *Begriffsschrift*
APA Pacific Spring Meeting, Association of Symbolic Logic (ASL), San Diego (US).
- 8/2014 Function and argument in *Begriffsschrift*
ECAP8 (Eight European Congress of Analytic Philosophy), University of Bucharest, Bucharest (Romania).
- 7/2015 Lógica como *lingua characterica* y lógica como *calculus ratiocinator*: La polémica entre Frege y Schröder
VIII SLMFCE (Eight Congress of the Spanish Society of Logic, Methodology and Philosophy of Science), University of Barcelona, Barcelona (Spain).
- 8/2015 *Lingua characterica* and *calculus ratiocinator*: The polemic between Frege and Schröder
Logic Colloquium 2015, University of Helsinki, Helsinki (Finland).
- 6/2017 Logic as Language and Logic as Calculus: The Leibnizian background of the Frege-Schröder polemic
Logica 2017, Czech Academy of Sciences, Hejnice (Czech Republic).
- 8/2017 Frege's *Begriffsschrift* and Logicism
Logic Colloquium 2017, University of Stockholm, Stockholm (Sweden).

- 10/2017 Frege's *Begriffsschrift* and Logicism
FPMW₉ 2017 (Ninth French Philosophy of Mathematics Workshop), French National Center for Scientific Research (CNRS), Nancy (France).
- 6/2018 Frege's adoption of the distinction between concept and object
Logica 2018, Czech Academy of Sciences, Hejnice (Czech Republic).
- 7/2018 From *Begriffsschrift* to *Grundlagen*: The adoption of the distinction between concept and object
2nd TiLPS History of Analytic Philosophy Workshop 2018, Tilburg University, Tilburg (Netherlands).
- 11/2018 Frege's adoption of the distinction between concept and object
IX SLMFCE (Ninth Conference of the Spanish Society for Logic, Methodology and Philosophy of Science), National Distance Education University (UNED), Madrid (Spain).
- 6/2019 Frege and Peano on Axiomatization and Formalization
SSHAP 2019 (2019 Annual Meeting of the Society for the Study of the History of Analytical Philosophy), Boston University, Boston (US).
- 6/2019 Frege and Peano on Axiomatisation
Logica 2019, Czech Academy of Sciences, Hejnice (Czech Republic).
- 7/2019 Frege and Peano on Axiomatisation and Formalisation
3rd TiLPS History of Analytic Philosophy Workshop 2019, Tilburg University, Tilburg (Netherlands).
- 8/2019 Frege and Peano on Axiomatisation and Formalisation
CLMPST 2019 (16th International Congress on Logic, Methodology and Philosophy of Science and Technology), Czech Academy of Sciences, Prague (Czech Republic).
- 12/2020 Russell and Peano on the Independence of the Axioms of Arithmetic
4th TiLPS History of Analytic Philosophy Workshop 2020, Tilburg University, Tilburg (Netherlands).
- 7/2021 Russell and Peano on the Independence of the Axioms of Arithmetic
SSHAP 2021 (2021 Annual Meeting of the Society for the Study of the History of Analytical Philosophy), University of Vienna, Vienna (Austria).
- 10/2021 Peano's structuralism
FPMW₁₃ (13th French Philosophy of Mathematics Workshop), Université Côte d'Azur, Nice (France).
- 06/2022 Peano's geometry: From empirical foundations to abstract development
Hi-Phi International Conference, Faculty of Sciences, University of Lisbon, Lisbon (Portugal).
- 7/2023 Peano's geometry: From empirical foundations to abstract development
CLMPST 2023 (17th International Congress on Logic, Methodology and Philosophy of Science and Technology), University of Buenos Aires, Buenos Aires (Argentina).

Organisation of academic events

- 12/2017 Prago-Viennese Workshop on the Philosophy of Mathematics · co-organiser
Institute of Philosophy, Czech Academy of Sciences.
- 7/2018 Workshop on Frege's Logic · organiser
Institute of Philosophy, Czech Academy of Sciences.
- 7/2019 2nd Prague Workshop on Frege's Logic · organiser
Institute of Philosophy, Czech Academy of Sciences.
- 8/2019 CLMPST 2019 · organising committee
Institute of Philosophy, Czech Academy of Sciences.
- 7/2023 LICPOS 2023 · scientific committee
Faculty of Sciences, University of Lisbon.
- 10/2023 Lisbon Workshop on the History of Logic · organiser
Faculty of Sciences, University of Lisbon.

Research projects

- 2012 – 2014 Member of the research project “Reference, Self-Reference and Empirical Data”
Spanish Government, Ministry of Education.
Role: Pre-doctoral researcher.
Main researcher: José Martínez.
- 2017 – 2021 Member of the research project “Formal Epistemology – the Future Synthesis”
Czech Academy of Sciences.
Role: Post-doctoral researcher.
Main researcher: Ladislav Kvasz.

Research stays

- 2013 Research stay (3 months) at the Munich Center for Mathematical Philosophy (MCMP)
Supervisor: Erich Reck (University of California Riverside).

Scholarships & awards

SCHOLARSHIPS

2008–2009 **Research Assistantship** · 2.700 EUR
Faculty of Philosophy, University of Barcelona (UB).

2009 – 2013 **Doctoral Fellowship APIF** · 42.024 EUR
University of Barcelona (UB).

AWARDS

2014 Association of Symbolic Logic · ASL Travel Grant Award · \$750
Award to fund participation in APA Pacific Spring Meeting, ASL, San Diego (US).

Teaching

2010 – 2011 **Teaching Assistant** · Introduction to Logic II
Faculty of Philosophy, University of Barcelona (UB).

2011 – 2012 **Teaching Assistant** · Introduction to Logic
Faculty of Philosophy, University of Barcelona (UB).

2011 – 2012 **Teaching Assistant** · Philosophical Problems III
Faculty of Philosophy, University of Barcelona (UB).

2016 – 2017 **Lecturer** · Logic
Faculty of Philosophy, University of Barcelona (UB).

2022 – 2023 **Lecturer** · Philosophy of Scientific Knowledge
Faculty of Sciences, University of Lisbon (FCUL).

2022 – 2023 **Lecturer & coordinator** · Epistemology and Philosophy of Science in the XX century
Faculty of Sciences, University of Lisbon (FCUL).

2023 – 2024 **Lecturer** · Philosophy of Scientific Knowledge
Faculty of Sciences, University of Lisbon (FCUL).

Academic roles

ACADEMIC SERVICE

- 2023 CFCUL-FCT PhD Research Fellowships · President of the evaluation panel.
Centre of Philosophy of Sciences of the University of Lisbon (CFCUL) & Fundação para a Ciência e Tecnologia (FCT).
- 2023 Evaluation of research projects · Reviewer.
Czech Science Foundation (GAČR).

REVIEWING

- 2018 *Organon F, Teorema.*
- 2019 *Theoria, Review of Symbolic Logic.*
- 2020 *Philosophical Papers.*
- 2022 *History and Philosophy of Logic, Inquiry, Journal of Logic, Language and Information, Russell Journal.*
- 2023 *Theoria, History and Philosophy of Logic.*

Languages

- CATALAN · Native speaker.
SPANISH · Native speaker.
ENGLISH · Fluent.
GERMAN · Level equivalent to ALTE B2.
CZECH · Basic competence (A2 level).
FRENCH · Basic competence.
PORTUGUESE · Basic competence.