

# CRISTIAN SOTO

## *Curriculum Vitae*

(22 September 2022)

Doctor of Philosophy, University of Melbourne, Australia  
Associate Professor, Departamento de Filosofía, Universidad de Chile  
Newton International Fellow, British Academy and Royal Society, CPNSS, LSE, UK  
Academic website: [www.csoto.cl](http://www.csoto.cl)

### ***Work address 1 (2022-2024):***

- Centre for Philosophy of Natural and Social Sciences, Lakatos Building, London School of Economics and Political Science.  
Houghton St., London WC2A 2AE, UK.  
E-mail: [C.Soto1@lse.ac.uk](mailto:C.Soto1@lse.ac.uk)

### ***Work address 2:***

- Departamento de Filosofía, Universidad de Chile.  
Av. Ignacio Carrera Pinto 1025, Ñuñoa, RM Chile.  
E-mail: [cssotto@uchile.cl](mailto:cssotto@uchile.cl)

## **ACADEMIC EMPLOYMENT AND AFFILIATIONS**

- 2021 –. Associate professor, Departamento de Filosofía, Universidad de Chile.
- 2022 – 2024. Newton International Fellow, British Academy and Royal Society, CPNSS, LSE, UK.
- 2016 – 2020. Assistant professor, Departamento de Filosofía, Universidad de Chile
- 2008 – 2015. Instructor, Departamento de Filosofía, Universidad de Chile

## **EDUCATION**

- Ph.D. in Philosophy. University of Melbourne, Australia, April 2016.  
Dissertation: “Minimalist Approaches to the Metaphysics of Science”  
Committee: Howard Sankey (chair), Dana Goswick, Stathis Psillos, and James Ladyman.
- MA in Philosophy, Universidad de Chile, March 2008.  
Dissertation: “Peirce’s Metaphysics of Abduction” (in Spanish)  
Committee: Alejandro Ramírez and Guido Vallejos.
- BA in Philosophy. Universidad de Chile, April 2005.  
Dissertation: “Imagination in Kant’s Transcendental Deduction A and B” (in Spanish)  
Supervisor: Ives Benzi.

## RESEARCH INTERESTS

- *Areas of specialization:* general philosophy of science and metaphysics, with special focus on laws of nature, metaphysics of science, empiricism, scientific realism, indispensability arguments, and scientific pluralism.
- *Areas of competence:* early modern HPS; classical pragmatism; early modern philosophy; analytic philosophy.

## VISITING APPOINTMENTS

- Dipartimento di Filosofia, Università Degli Studi Roma III, forthcoming. April 2023.
- CPNSS, LSE, UK, July 2022 – June 2024.
- Departamento de Filosofía & Logos Research Group in Analytic Philosophy, Universitat de Barcelona, España. May–June, 2022.
- CPNSS, LSE, UK. December 2021 – April 2022.
- Center for Philosophy of Science, University of Pittsburgh, U.S.A. August – December 2020. (Cancelled due to the pandemic.)
- Department of Philosophy, University of Miami, U.S.A. 3 January – 03 March 2019.
- Munich Centre for Mathematical Philosophy, LMU, Germany. 11-30 June 2018.
- Centre for the Philosophy of Natural and Social Sciences, London School of Economics and Political Science, England. 24 April – 11 June 2018.
- Department of Philosophy, University of Miami, U.S.A. 01 September – 22 October 2017.

## OTHER ACADEMIC APPOINTMENTS

- Invited professor, Universidad de Santiago de Chile, for the course “Philosophy of science: laws of nature”, 2020 and 2021.
- Invited professor, Universidad Alberto Hurtado, Chile, for the course: “Introduction to the philosophy of science”, 2016

## AWARDS

- Newton International Fellowship, British Academy and Royal Society, UK, November 2021.
- Early-academic-career research excellence award, granted by the Vice-Chancellorship, Universidad de Chile, October 2018.
- Governmental funded scholarship for doctoral studies, 2011-2015.

- Other scholarships for graduate and undergraduate studies

## GRANTS

- April 2021 – March 2025. FONDECYT Regular 1210570, ANID. Governmental funded research grant. Responsible investigator. “The effectiveness of mathematics: the case of physical laws”.
- July 2022 – June 2024. Newton International Fellowship, British Academy and Royal Society, UK.
- May and June 2022. Movilidad Internacional Académica, Banco Santander España, 2021-2022/2023: “Leyes de la naturaleza: abstracción e idealización”.
- August 2020 – August 2022. Enlace FONDECYT, Vicerrectoría de Investigación y Desarrollo, Universidad de Chile: “Physical laws and the effectiveness of mathematics”.
- November 2016 – October 2019. FONDECYT de Iniciación 11160324, ANID. Governmental funded research grant. Principal investigator. Title: “The physico-mathematical structure of scientific laws: On the contribution of mathematics, models, measurements and metaphysics to the construction of laws in physics”.
- 01-15 July 2019. Grant UCH 1566, International Academics. Invited academic: Stathis Psillos (Department of Philosophy and History of Science, University of Athens, Greece): *Masterclass Seminar on Metaphysics and Scientific Realism*, Universidad de Chile.
- January – February 2019. Grant for Academic Research Abroad, PEEI-2014, Universidad de Chile. "The Inferential Account of Scientific Laws". Destination: Department of Philosophy, University of Miami, U.S.A.
- 11-16 September 2016. Conference Travell Grant, Universidad de Chile. "The Epistemic Indispensability Argument", X AFHIC (Latin American Association for HPS) Conference, Aguas de Lindoia, Sao Paulo, Brazil.
- December 2011 – December 2015. CONICYT, Governmental Funded Ph.D. Scholarship, No. 72111270. Title: “Minimalist Approaches to the Metaphysics of Science”, Graduate School of Humanities and Social Sciences, University of Melbourne, Australia.
- March 2009 – December 2010. FONDECYT Regular 1095020, CONICYT. Governmental Funded Research Grant. Co-investigator. Title: “Razonamiento Basado en Modelos (RBM) y Generación de Hipótesis: Un enfoque cognitivo en filosofía de las ciencias a partir de Ronald Giere”.
- March 2006 – December 2007. FONDECYT Regular 105607, CONICYT. Governmental Funded Research Grant, No. 1050607. Thesis student. “Estructura y posibilidad de una lógica del descubrimiento en la filosofía de la ciencia contemporánea: Un análisis a partir de Hanson y Peirce”.

## PUBLICATIONS

### a. Research Articles

1. Forthcoming. "Descartes y la emergencia de las leyes de la naturaleza: una carta de viaje para el debate actual". *Disputatio: Boletín de Investigación Filosófica*.
2. Forthcoming. "Sobre la estructura de las leyes científicas: física, matemáticas y metafísica", *Cuadernos de Lógica, Epistemología y Lenguaje*, College Publications.
3. 2021. "Humeanismo y leyes de la naturaleza: alcance y límites", *Revista de Humanidades de Valparaíso*, 17: 145-167 [[Link](#)]
4. 2020. "Local selective realism: shifting from classical to quantum electrodynamics", *Foundations of Science*, 25(4): 955-970 (with D. Romero). [[Link](#)]
5. 2020. "Some morals from the physico-mathematical character of scientific laws", *Transformacao: Revista de Filosofia*, 43(4): 65-88. [[Link](#)]
6. 2020. "Wigner, las leyes físicas y la efectividad de las matemáticas", *Revista Colombiana de Filosofía de las Ciencias*, 20(40): 93-127. [[Link](#)]
7. 2019. "A framework for an inferential conception of physical laws", *Principia: An International Journal of Epistemology* 23(3): 423-444. (With Otávio Bueno.) [[Link](#)]
8. 2019. "Capacidades y leyes fenomenológicas: el disposicionalismo experimental", *Revista de Filosofía*, 76: 185-201. (With Pascal Rodríguez.) [[Link](#)]
9. 2019. "Sobre el colapso de las estructuras matemáticas y físicas en el realismo estructural óntico", *Kriterion: Revista de Filosofía*, 60(143): 279-295. [[Link](#)]
10. 2019. "The epistemic indispensability argument", *Journal for General Philosophy of Science*, 50:145-161. [[Link](#)]
11. 2018. "A proposal for a coherent ontology of fundamental entities", *Foundations of Science*, 23:705-717 (with D. Romero and F. Benítez.) [[Link](#)]
12. 2018. "Argumento de la indispensabilidad epistémica e inferencia a la mejor explicación: una aproximación epistémica", *Revista Colombiana de Filosofía de las Ciencias*, 18 (36): 19-39. [[Link](#)]
13. 2017. "Globally and locally applied naturalistic metaphysics", *Manuscrito: An international Journal of Philosophy*, 40(3): 33-50. [[Link](#)]
14. 2017. "¿Qué es la metafísica de la ciencia?", *Discusiones Filosóficas*, 31: 87-105. [[Link](#)]
15. 2015. "The current state of the metaphysics of science debate", *Philosophica*, 90: 23-60. [[Link](#)]
16. 2015. "Una evaluación del realismo científico de Peirce a 100 años de su muerte", *Cuadernos de Filosofía Latinoamericana*, 35(111): 33-58. [[Link](#)]
17. 2011. "Peirce, la abducción y el problema del descubrimiento en filosofía de la ciencia". *Cadernos UFS de Filosofía*, 7(XIII/ 9): 95-111. [[Link](#)]

18. 2010. ‘Teoría de la verdad evolucionaria en Peirce’, *Crítica: Revista Hispanoamericana de Filosofía*. 42(126): 25-44. [[Link](#)]
19. 2009. “Pragmatismo y realismo científico en Peirce”, *Cuadernos de Filosofía*, 27: 23-45. [[Link](#)]
20. 2007. “La imaginación en la formación de la Crítica de la razón pura”, *Alcances*, II(2): 47-66. [[Link](#)]
21. 2006. “Abducción como inferencia y como intuición en Peirce”, *Grupo de Estudios Peirceanos*, Universidad de Navarra, España, 1-15. [[Link](#)]
22. 2006. “Naturalismo, ontología y productividad del pensamiento. Discusión de las Variaciones de Fodor sobre Hume”, *Methodus: Revista Internacional de Filosofía Moderna*, Nº1: 109-121. [[Link](#)]
23. 2006. “Teoría kantiana de la actividad mental. Algunos problemas desde las ciencias cognitivas”, *Revista de Filosofía*, Vol. LXII, 41-58. [[Link](#)]
24. 2005. “Peirce. Abducción *sive* lógica *sive* ontología”, *Grupo de Estudios Peirceanos*, Universidad de Navarra, España, 1-40. [[Link](#)]
25. 2004. “La lógica del descubrimiento de N. R. Hanson”, *Publicaciones Especiales*, Universidad de Chile, 36(108):1-87.
26. 2004. “Kant-Hume: dos gnoseologías de la imaginación”, *Publicaciones Especiales*, Universidad de Chile, Número Especial, 111-145.
27. 2004. “Para una reiteración de los estudios kantianos”, *Publicaciones Especiales*, Universidad de Chile, Número Especial, 3-10.
28. 2004. “La pregunta de Kant: ¿qué es el hombre?”, *Anuario de Pregrado*, Nº1, Facultad de Filosofía y Humanidades, Universidad de Chile, 131-148.

#### **b. Book chapters**

1. Forthcoming. “Roberto Torretti’s philosophy of science”, in Cristian Soto ed., *Current Debates in Philosophy of Science: Essays in Honor of Roberto Torretti*. Synthese Library Series, Springer, Netherlands.
2. Forthcoming. “Introduction”, in Cristian Soto ed., *Current Debates in Philosophy of Science: Essays in Honor of Roberto Torretti*. Synthese Library Series, Springer, Netherlands.

#### **c. Reviews**

1. Forthcoming. Roman Frigg y James Nguyen, *Modelling Nature: An Opinionated Introduction to Scientific Representation*, Synthese Library Series: Studies in Epistemology, Logic, Methodology, and Philosophy of Science, Springer, 2020, xvi + 241 pp. *Revista Latinoamericana de Filosofía*.

2. Forthcoming. Alejandro Cassini y Juan Redmond, editors, *Models and Idealizations in Science: Artifactual and Fictional Approaches*, Logic, Epistemology, and the Unity of Science Series, Springer, 2021, xv + 270 pp. *Revista Latinoamericana de Filosofía*.
3. 2019. “An apt celebration of Agassi’s career”, *Metascience: An International Journal for the History, Philosophy, and Social Studies of Science*. Review of Nimrod Bar-Am and Stefano Gattei, Encouraging Openness: Essays in Honor of Joseph Agassi on Occasion of His 90<sup>th</sup> Birthday. Springer, Netherlands, 2017. [[Link](#)]
4. 2017. “Taking stock of the metaphysics of science debate: drawing disciplinary frontiers”, *Metascience: An International Journal for the History, Philosophy and Social Studies of Science*, 26 (2): 256-261. Essay review of Markus Schrenk, *Metaphysics of Science: A Systematic and Historical Introduction*. Routledge, London-New York, 2016. [[Link](#)]
5. 2015. “Metaphysics, laws, and natural kinds: minimalist approaches”, *Metascience: An International Review Journal for the History, Philosophy and Social Studies of Science*. Essay review of Stephen Mumford and Matthew Tugby editors, *Metaphysics and Science*, Oxford University Press, Oxford, 2013. [[Link](#)]
6. 2014. Review of Mark Colyvan, 2012, *An introduction to the philosophy of mathematics*, *Critica: Revista Hispanoamericana de Filosofía*, Vol. 46, No 138: 93-102. [[Link](#)]
7. 2014. “The aim and scope of scientific metaphysics”, *Metascience: An International Journal for the History, Philosophy and Social Studies of Science*, 23: 173-123. Essay review of Don Ross, James Ladyman and Harold Kincaid editors, *Scientific Metaphysics*, Oxford University Press, Oxford, 2012. [[Link](#)]
8. 2013. “Looking for a realist metaphysics of science”, *Metascience: An International Journal for the History, Philosophy and Social Studies of Science*, 22: 289-292. Essay review of Alexander Bird, Brian Ellis and Howard Sankey editors, *Properties, Powers and Structures: Issues in the Metaphysics of Realism*, Routledge, London-New York, 2012. [[Link](#)]
9. 2010. Review of Sergio Rojas, *El problema de la historia en la filosofía crítica de Kant*, *Revista de Filosofía*, Vol. 66: 269-272. [[Link](#)]
10. 2008. Review of Charles S. Peirce, *La lógica considerada como semiótica*, *Revista de Filosofía*, Vol. 64: 261-264. [[Link](#)]
11. 2008. Review of Paul Guyer, *Knowledge, Reason, and Taste: Kant’s Response to Hume*, *Methodus: Revista Internacional de Filosofía Moderna*, No 3: 112-116.
12. 2007. Review of Lex Newman, Ed., *Cambridge Companion to Locke’s Essay Concerning Human Understanding*, *Methodus: Revista Internacional de Filosofía Moderna*, N°2: 110-113.
13. 2006. Review of Ricardo Salas et al, Kant y la racionalidad práctica, *Revista de Filosofía*, N°62: 177-180. [[Link](#)]
14. 2006. Review of Alejandro Ramírez, La transformación de la epistemología contemporánea, *Revista de Filosofía*, No 62: 173-177. [[Link](#)]

**d. Other writings**

1. 2011. “Dostoyevski: realismo metafísico, misticismo y espíritu karamazoviano”. *Tábano*, year 2011, 1-33. [\[Link\]](#)
2. 2010. “Pascal lector de Montaigne”. *Tábano*, 2010, 1-11. [\[Link\]](#)
3. 2007. ‘Esquema para un ensayo naturalista y popular sobre la metafísica y el hombre (sobre Kant y Dilthey)’. *Tábano*, año 2007, 1-4. [\[Link\]](#)

*e. Under review*

1. Edited book. *Current debates in philosophy of science: in honor of Roberto Torretti*. Cristian Soto, guest editor. Synthese Library Series, Springer, under contract.
2. Article. “Newton y las leyes de la naturaleza: consideraciones filosóficas”

**WORK IN PROGRESS**

*Books in progress*

1. *Leyes de la Naturaleza: Historia y Filosofía*. Research funded by Vicerrectoría de Investigación y Desarrollo, Universidad de Chile. Expected completion date: December 2022.
2. *Realismo científico: debates recientes*, with Bruno Borge. Research funded by Vicerrectoría de Investigación y Desarrollo, Universidad de Chile. Expected completion date: December 2022.
3. *Physical laws and the application of mathematics*, with Otávio Bueno. In progress. Expected completion date: June 2024.

*Articles in progress (drafts available upon request):*

1. “Laws, invariance, and mathematics”
2. “Physical laws and the effectiveness of mathematics”
3. “On the distinction between mathematical and physical structures”
4. “Physical modality for physical laws”
5. “Mathematics, structure, and laws”
6. “Pluralism and the metaphysics of science”
7. “On Cartwright’s nomological pluralism”
8. “Three boundaries of selective realism”

## TALKS (since 2011):

1. 'Nomic eliminativism: writing the last chapter of the laws of nature', Hi-Phi International Conference, CIHUT – FCT, Universidad de Lisboa, Portugal, 23-24 June 2022.
2. 'Physical modality for physical laws', Logos Research Group in Analytic Philosophy, Universitat de Barcelona, Spain, 16 June 2022.
3. 'Physical modality for physical laws', Metaphysics of Science Seminar, KU Leuven, Belgium, 11 March 2022.
4. 'Revisiting nomological eliminativism', Lunchtime Meetings, Centre for the Philosophy of Natural and Social Sciences, LSE, UK. 02 February 2022.
5. 'Leyes físicas y la estructura de la realidad', XXI Jornadas Rolando Chuaqui Kettlun, USACH, Chile, 20-22 October 2021.
6. 'Modalidad física y leyes físicas', VII Congreso Asociación Chilena de Filosofía, Chile, 4-8 October 2021.
7. 'Objetividad y valores en ciencia y tecnología', keynote address at the VI Debate Interescolar USACH, Chile, 27 September 2021.
8. 'Eliminativismo nomológico', Segundas Jornadas de Fundamentos, Filosofía e Historia de la Física, Universidad de Buenos Aires, Argentina, 10, 13 and 14 September 2021.
9. 'Leyes de la naturaleza y la estructura de la realidad', Tertulias Filosóficas sobre Fundamentos de la Ciencia, Instituto de Ingeniería Matemática e Instituto de Filosofía, Universidad de Valparaíso, Chile, 11 June 2021.
10. 'Leyes de la naturaleza y la estructura de la realidad', Conversatorios Internacionales del Posgrado de FCyL, Universidad Autónoma de México, México, 17, 19 and 24 May 2021.
11. 'Physical laws and modality', Seminario de Metafísica y Filosofía Teórica, Universidad Adolfo Ibáñez, Chile, 25 November 2020
12. 'Leyes de la naturaleza', Coloquio Realismo Científico y Leyes de la Naturaleza, Universidad El Bosque, Caldas, Colombia, 6 November 2020
13. 'Filosofía de las ciencias, valores y políticas públicas', Filosofía, Ciencia y Pandemia, Universidad Católica del Maule, Chile, 13 August 2020
14. 'Pluralismo científico, pluralismo metafísico (segunda parte)', Congreso de la Asociación Chilena de Filosofía, Universidad de la Frontera, Chile, 22-25 November 2019.
15. 'Pluralismo científico, pluralismo metafísico (primera parte)', Workshop Metafísica: Debates Recientes, Facultad de Filosofía y Humanidades, Universidad de Chile, 11 November 2019.
16. 'Mathematics, laws and modality', Workshop Current Debates in the Philosophy of Science, Facultad de Filosofía y Humanidades, Universidad de Chile, 2-4 October 2019.
17. 'An inferential conception of physical laws', XX Jornadas Rolando Chuaqui en Filosofía y Ciencias, PUC de Chile, 27-30 August 2019.



18. 'An inferential conception of physical laws', XI Principia Conference, UFSC, Brazil, 19-22 August 2019.
19. 'On the Interaction between Physics and Metaphysics', *First Chilean Conference of Philosophy of Physics*, Instituto de Filosofía, PUC de Valparaíso, Chile, 28-30 November 2018.
20. 'Sobre la interacción entre física y metafísica', *VI Encuentro Círculo de Filosofía de la Naturaleza*, Universidad Austral, Chile, 21-23 November 2018.
21. 'Debates recientes en filosofía de las matemáticas: ontología, indispensabilidad y aplicabilidad', *Seminario de Epistemología del Instituto de Matemáticas*, PUC de Valparaíso, Chile, 14 November 2018.
22. 'Local selective realism: shifting from classical to quantum electrodynamics', *Philosophy of Science Association Conference*, Seattle, U.S.A., 1-4 November 2018 (with Diego Romero-Maltrana – not delivered)
23. 'The inferential conception of physical laws', *Workshop on Foundations of Science*, SADAF, Buenos Aires, Argentina, 3-4 September 2018.
24. 'Physical laws and the application of mathematics', *Workshop Current Debates in Philosophy of Science: Mathematics, Models and Laws*, Universidad de Chile, 27-28 August 2018.
25. 'Roundtable on mathematical and physical structures', with Otávio Bueno (University of Miami, U.S.A.) and Roman Frigg (LSE, England), *XIX Jornadas de Filosofía de las Ciencias Rolando Chuaqui Kettlun*, Universidad de Concepción, Chile, 31 August 2018.
26. 'Metafísica de la ciencia: el caso de las leyes de la naturaleza', *Coloquios del Instituto de Física*, PUC de Valparaíso, Chile, 22 August 2018.
27. 'The inferential conception and the distinction between mathematical and physical structures', *British Society for the Philosophy of Science Conference*, Oxford University, United Kingdom, 4-6 July 2018.
28. 'On the distinction between mathematical and physical structures', *Centre for the Philosophy of Natural and Social Sciences*, London School of Economics, England, 5 June 2018.
29. 'El argumento de la indispensabilidad epistémica en filosofía de la matemática', *Seminarios de Filosofía de la Ciencia*, IFICC, Chile, 16 November 2017.
30. 'Metafísica de la ciencia: aplicaciones globales y locales', *Coloquio de Filosofía*, Departamento de Filosofía, Universidad de Santiago de Chile, Chile, 7 noviembre 2017.
31. 'The epistemic indispensability argument', *Philosophy Colloquia*, Department of Philosophy, University of Miami, USA, 20 October 2017.
32. 'Laws explain their instances: a reply to Jaag', *Third Conference of the Society for the Metaphysics of Science*, Fordham University, New York, USA, 5-7 October 2017.
33. 'Mathematics and scientific laws', *Philosophy Colloquia*, Department of Philosophy, University of Miami, USA, 20 October 2017.
34. 'Laws explain their instances', *Third Conference of the Society for the Metaphysics of Science*, Fordham University, New York, USA, 5-7 October 2017.

35. Panel discussion with Otavio Bueno and Anjan Chakravartty: 'Semirealism, structural empiricism, and the future of an age-old debate', XVIII Jornadas en Filosofía de las Ciencias Rolando Chuaqui Kettlun, Facultad de Humanidades, Universidad de Valparaíso, Chile, 23 – 25 October 2017.
36. 'Sobre la estructura físico-matemática de las leyes científicas', XVIII Jornadas en Filosofía de las Ciencias Rolando Chuaqui Kettlun, Facultad de Humanidades, Universidad de Valparaíso, Chile, 23 – 25 October 2017.
37. 'La Metáfora del Museo y la Historia de la Filosofía', Grupo de Estudios de Filosofía Analítica, Tercera Jornada: Filosofía e Historia de la Filosofía, 13 octubre 2016.
38. 'Epistemic Mathematical Realism', X Encontro AFHIC, Asociación de Filosofía e Historia de la Ciencia del Cono Sur, Aguas de Lindoia, Sao Paulo, 12-15 septiembre 2016.
39. 'Realismo selectivo retrospectivo: Una interpretación minimalista de la transición desde la electrodinámica clásica a la electrodinámica cuántica', XVII Jornadas Rolando Chuaqui Kettlun, Facultad de Filosofía y Humanidades, Universidad de Chile, 24-26 agosto 2016.
40. 'Minimalism and selective realism: shifting from Fresnel's to Maxwell's theories of light', Australasian Association for the History and the Philosophy of Science Conference, University of Melbourne, Australia, November 4-6, 2015.
41. 'A physico-mathematical account of scientific laws', History and Philosophy of Science Seminar Series, University of Melbourne, Australia September 2015.
42. 'A minimalist approach to scientific laws', Work in Progress Day, University of Melbourne, Australia, June 2015.
43. 'Who needs mathematical ontology?', Postgraduate Philosophy Colloquium, University of Melbourne, Australia, April 2015.
44. 'Epistemic mathematical realism: a minimalist reading of indispensability arguments', Work in Progress Day, University of Melbourne, Australia, October 2014.
45. 'The role of models in scientific thinking', History and Philosophy of Science Seminar Series, University of Melbourne, Australia, September 2014.
46. 'Saving the realist stance', Postgraduate Philosophy Colloquium, University of Melbourne, Australia, May 2014.
47. 'Mathematics and metaphysics on the boundaries of scientific ontology', Postgraduate Philosophy Colloquium, University of Melbourne, Australia, October 2013.
48. 'A structural realist approach to laws of nature', Australasian Postgraduate Philosophy Conference, University of Melbourne, Australia, October 2013.
49. 'Jack Smart's scientific realism: on common sense and scientism', Australasian Association of Philosophy Conference, University of Queensland, Australia, July 2013.
50. 'Scientific metaphysics once again', Postgraduate Philosophy Colloquium, University of Melbourne, Australia, June 2013.

51. 'What is the new metaphysics of science?', *Association of History and Philosophy of Science Students Conference*, History and Philosophy of Science Program, University of Melbourne, Australia, February 2013.
52. 'What is the new metaphysics of science?', *Postgraduate Philosophy Colloquium*, University of Melbourne, Australia, November 2012.
53. 'A critique of the philosophy of laws of nature - or abductive scientific realism meets mathematical realism', *History and Philosophy of Science Seminar Series*, University of Melbourne, Australia, September 2012.
54. 'What is abductive scientific realism', *Postgraduate Philosophy Colloquium*, University of Melbourne, Australia, August 2012.
55. 'A New Metaphysics of Science for the Laws of Nature', *Australasian Association of Philosophy Conferences*, University of Wollongong, New South Wales, Australia, July 2012.
56. 'Hume: a los 300 años de su nacimiento', *V Jornadas de Filosofía Moderna*, Universidad Diego Portales, Santiago, Chile, May 2011.

## TEACHING

These are among the subjects I teach at the Departamento de Filosofía, Universidad de Chile (in Spanish):

### a. Graduate teaching

- Laws of nature: science and metaphysics
- Scientific pluralism
- Science, metaphysics, and reality

### b. Undergraduate teaching

- Thesis seminar: current debates in philosophy of science
- Scientific revolution (early modern HPS)
- Introduction to the philosophy of mathematics
- Scientific realism: current debates
- Metaphysics of science: current debates
- Metaphysics
- Laws of nature

## SERVICE

1. Director, MA in Philosophy Program, Graduate School, Universidad de Chile (December 2018 – present)
2. Director, Research Group in Philosophy of Science, Universidad de Chile (March 2017 – present)

3. Founding member and former president of the Chilean Society for Philosophy of Science. Website: [www.sochific.cl](http://www.sochific.cl) (September 2016 – June 2020)
4. Member of the Scientific Committee for the Latin American Association for HPS (AFHIC) (July 2019 – present)
5. Member of the Academic Committee, MA in Philosophy Program, Graduate School, Universidad de Chile (September 2016 – November 2018)
6. Member of the Academic Committee, BA in Philosophy Program, Universidad de Chile. (March 2019 – present)
7. Referee for *Comisión Nacional de Acreditación*, Ministry of Education, Chile (October 2018 – present)
8. Founding member and director of the *Grupo de Estudios de Filosofía de las Ciencias*, Universidad de Chile. Website: <http://uchile.cl/f132678> (March 2017 - present)
9. Journal referee for:

*Cuadernos de Filosofía* (2022)

*Discusiones Filosóficas* (2019)

*Foundations of Science* (2021)

*Foundations of Physics* (2022)

*Ideas y Valores* (2020)

*Journal for General Philosophy of Science* (2020, 2021)

*Kriterion* (2020)

*Límites: Revista de Psicología y Filosofía* (2018)

*Manuscrito* (2021)

*Philosophy Compass* (2019)

*Principia* (2019-2022)

*Revista Colombiana de Filosofía de las Ciencias* (2021, 2022)

*Revista de Filosofía (Madrid, España)* (2022)

*Revista de Filosofía (Chile)* (2018-2022)

*Revista de Humanidades de Valparaíso* (2021)

*Synthese* (2018-2022)

*Synthese Library Series* (2019)

*Theoria. Int.* (2020)

## **OUTREACH: ORGANIZATION OF ACADEMIC EVENTS**

1. April- June 2020. Reading Group on Scientific Pluralism”, Grupo de Estudios de Filosofía de las Ciencias, Universidad de Chile.
2. April-June 2020. Reading Group on Metaphysics of Science”, Grupo de Estudios de Filosofía de las Ciencias, Universidad de Chile.
3. 2-3 November 2019. *Workshop on Explanation in Science and Metaphysics*, Facultad de Filosofía y Humanidades, Universidad de Chile. Invited speaker: Juha Saatsi, University of Leeds, England.
4. 11 October 2019. *Workshop Metafísica: Debates Recientes*. Invited speakers: José Tomás Alvarado, PUC de Chile, Chile; Sebastián Briceño, Universidad de Concepción, Chile; and Carlo Rossi, Universidad Adolfo Ibáñez, Chile.
5. 4 October 2019. *Workshop on Non-Causal Explanation in Science, Mathematics, and Metaphysics*, Universidad de Santiago de Chile, Chile. Invited speakers: Otávio Bueno, University of Miami, U.S.A.; Anjan Chakravartty, University of Miami, U.S.A.; and Bruno Broge, Universidad de Buenos Aires, Argentina.

6. 1-3 October 2019. Workshop Current Debates on Philosophy of Science, Facultad de Filosofía y Humanidades, Universidad de Chile. Invited speakers: Otávio Bueno, University of Miami, U.S.A.; Anjan Chakravartty, University of Miami, U.S.A.; Bruno Borge, Universidad de Buenos Aires, Argentina; Pablo Acuña, PUC de Chile, Chile; Aldo Filomeno, PUC de Valparaíso, Chile; Diego Romero, PUC de Valparaíso, Chile.
7. 1-15 July 2019. *Masterclass on TBA*, with Stathis Psillos (Department of History and Philosophy of Science, University of Athens, Greece), Escuela de Posgrado, Facultad de Filosofía y Humanidades, Universidad de Chile
8. April-November 2019. *Reading group on Roberto Torretti's Philosophy of Science*, Grupo de Estudios de Filosofía de las Ciencias, Universidad de Chile.
9. December 2018. Organizer of the *Workshop Metafísica: Tres Debates Recientes*, Instituto de Filosofía, PUC de Chile
10. October 2018. Organizer of the *Primer Congreso Nacional de Estudiantes de Filosofía de las Ciencias*, Facultad de Filosofía y Humanidades, Universidad de Chile.
11. August 2018. Organizer of the *Workshop Current Debates in Philosophy of Science: Mathematics, Models and Laws*, with Otávio Bueno, Roman Frigg, and Olimpia Lombardi, among the invited speakers. Facultad de Filosofía y Humanidades, Universidad de Chile
12. October 2017. Co-organizer of the *Second Latin American Conference of Scientific Philosophy*. Further information: <http://www.colfic2017.cl>, Facultad de Ciencias and Facultad de Filosofía y Humanidades, Universidad de Chile
13. 26-31 August 2017. Organizer of the *Masterclass Seminar: The philosophy of applied mathematics*, delivered by Otávio Bueno (Department of Philosophy, University of Miami, U.S.A.), Facultad de Filosofía y Humanidades, Universidad de Chile.
14. 21-22 August 2017. Organizer of the *Masterclass Seminar Semirealism and the metaphysics of science*, delivered by Anjan Chakravartty (Department of Philosophy, University of Notre Dame, U.S.A.), Facultad de Filosofía y Humanidades, Universidad de Chile.
15. March 2017 – present. Coordinator of the *Philosophy and the Sciences Seminar*, Facultad de Filosofía y Humanidades, Universidad de Chile

#### **MEMBERSHIPS OF ACADEMIC SOCIETIES**

1. 2018 –. British Society for the Philosophy of Science
2. 2016 –. Sociedad Chilena de Filosofía de las Ciencias
3. 2016 –. Society for the Philosophy of Science in Practice
4. 2016 –. Asociación de Historia y Filosofía de la Ciencia del Cono Sur
5. 2015 –. Society for the Metaphysics of Science
6. 2012 – 2015. Australasian Association of Philosophy

7. 2010 –. Asociación Chilena de Filosofía
8. 2010 –. Sociedad Chilena de Filosofía Analítica

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