

# CRISTIAN SOTO

Curriculum Vitae

(June 2023)

[www.csoto.cl](http://www.csoto.cl)

## *Associate Professor*

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

## *Newton International Fellow*

British Academy  
CPNSS, LSE  
Lakatos Building,  
Houghton St., London WC2A 2AE  
UK  
E-mail: [C.Soto1@lse.ac.uk](mailto:C.Soto1@lse.ac.uk)

## Academic Appointments

2021-	Associate Professor, Universidad de Chile
2022-2024	Newton International Fellow, British Academy / CPNSS, LSE
2016-2020	Assistant Professor, Universidad de Chile
2008-2015	Philosophy Instructor, Universidad de Chile

## Education

2016	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.
2008	MA in Philosophy, Universidad de Chile, March 2008. Dissertation: “Peirce’s Metaphysics of Abduction” (in Spanish) Committee: Alejandro Ramírez and Guido Vallejos.
2005	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	<i>General Philosophy of Science</i> , with emphasis on laws of nature, metaphysics, empiricism, scientific realism, and scientific pluralism
Areas of competence	Metaphysics; early modern HPS; classical pragmatism; early modern philosophy; analytic philosophy

## Visiting Appointments

- 2022-2024 CPNSS, LSE, UK  
4/2023 Dipartimento di Filosofia, Università Degli Studi Roma III, April 2023  
5-6/2022 Logos Research Group in Analytic Philosophy, Universitat de Barcelona, Spain  
12/2021 – CPNSS, LSE, UK.  
4/2022  
8-12/2020 Center for Philosophy of Science, University of Pittsburgh, U.S.A. (cancelled due to the pandemic)
- 1-3/2019 Department of Philosophy, University of Miami, U.S.A.  
6/2018 Munich Centre for Mathematical Philosophy, LMU, Germany.  
4-6/2018 CPNSS, LSE, UK.  
9-10/2017 Department of Philosophy, University of Miami, U.S.A.

## Other Academic Appointments

- 2020 & Invited professor, Universidad de Santiago de Chile, ‘Philosophy of Science:  
2021 Laws of Nature’

## Awards

- 11/2021 Newton International Fellowship, British Academy, UK  
10/2018 Early-academic-career research excellence award, granted by the Vice-Chancellorship, Universidad de Chile.

## Research Grants

- 4/2021 – FONDECYT Regular 1210570, ANID. Governmental funded research grant.  
3/2025 Responsible investigator. “The effectiveness of mathematics: the case of physical laws”
- 7/2022 – Newton International Fellowship, British Academy, UK.  
6/2024
- 5-6/2022 Movilidad Internacional Académica, Banco Santander, Spain, 2021-2022/2023: “Leyes de la naturaleza: abstracción e idealización”.
- 8/2020 – Enlace FONDECYT, VID, Universidad de Chile: “Physical laws and the  
12/2023 effectiveness of mathematics”.
- 11/2016 – FONDECYT de Iniciación 11160324, ANID. Governmental funded research  
10/2019 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”.
- 7/2019 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.

- 1-2/2019 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.
- 9/2016 Conference Travell Grant, Universidad de Chile. "The Epistemic Indispensability Argument", X AFHIC (Latin American Association for HPS) Conference, Aguas de Lindoia, Sao Paulo, Brazil.
- 12/2011 – 12/2015 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.
- 2009-2010 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".
- 2006-2007 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: Edited Books**

- 2023 *Current Debates in the Philosophy of Science: In Honor of Roberto Torretti*, Cristian Soto, editor. Synthese Library Series (Dordrecht, Springer). [[Link](#)]

#### **Publications: Articles and Book Chapters (the latter signaled with \*)**

- 2023 "Descartes y la emergencia de las leyes de la naturaleza: una carta de viaje para el debate actual", *Disertatio: Boletín de Investigación Filosófica (First Online)* [[Link](#)].
- 2023 "Roberto Torretti's philosophy of science", *Current Debates in Philosophy of Science: In Honor of Roberto Torretti*, Cristian Soto editor (Dordrecht, Springer). [[Link](#)]
- 2023 "Editor's Introduction: Celebrating Roberto Torretti", *Current Debates in Philosophy of Science: in Honor of Roberto Torretti*, Cristian Soto editor (Dordrecht, Springer). [[Link](#)]
- 2022 "El disposicionalismo nomológico y sus problemas: redundancia, experimentalismo y modalidad nómica" *Revista de Humanidades de Valparaíso*, 20: 251-270, 2022. [[Link](#)]
- 2021 "Humeanismo y leyes de la naturaleza: alcance y límites", *Revista de Humanidades de Valparaíso*, 17: 145-167 [[Link](#)]

- 2020 “Local selective realism: shifting from classical to quantum electrodynamics”, *Foundations of Science*, 25(4): 955-970 (with D. Romero). [[Link](#)]
- 2020 “Some morals from the physico-mathematical character of scientific laws”, *Transformacao: Revista de Filosofia*, 43(4): 65-88. [[Link](#)]
- 2020 “Wigner, las leyes físicas y la efectividad de las matemáticas”, *Revista Colombiana de Filosofía de las Ciencias*, 20(40): 93-127. [[Link](#)]
- 2019 “A framework for an inferential conception of physical laws”, *Principia: An International Journal of Epistemology* 23(3): 423-444. (With Otávio Bueno.) [[Link](#)]
- 2019 “Capacidades y leyes fenomenológicas: el disposicionalismo experimental”, *Revista de Filosofia*, 76: 185-201. (With Pascal Rodríguez.) [[Link](#)]
- 2019 “Sobre el colapso de las estructuras matemáticas y físicas en el realismo estructural óntico”, *Kriterion: Revista de Filosofia*, 60(143): 279-295. [[Link](#)]
- 2019 “The epistemic indispensability argument”, *Journal for General Philosophy of Science*, 50:145-161. [[Link](#)]
- 2018 “A proposal for a coherent ontology of fundamental entities”, *Foundations of Science*, 23:705-717 (with D. Romero and F. Benítez.) [[Link](#)]
- 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](#)]
- 2017 “Globally and locally applied naturalistic metaphysics”, *Manuscrito: An international Journal of Philosophy*, 40(3): 33-50. [[Link](#)]
- 2017 “¿Qué es la metafísica de la ciencia?”, *Discusiones Filosóficas*, 31: 87-105. [[Link](#)]
- 2015 “The current state of the metaphysics of science debate”, *Philosophica*, 90: 23-60. [[Link](#)]
- 2015 “Una evaluación del realismo científico de Peirce a 100 años de su muerte”, *Cuadernos de Filosofía Latinoamericana*, 35(111): 33-58. [[Link](#)]
- 2011 “Peirce, la abducción y el problema del descubrimiento en filosofía de la ciencia”. *Cadernos UFS de Filosofia*, 7(XIII/ 9): 95-111. [[Link](#)]
- 2010 “Teoría de la verdad evolucionaria en Peirce”, *Crítica: Revista Hispanoamericana de Filosofía*. 42(126): 25-44. [[Link](#)]
- 2009 “Pragmatismo y realismo científico en Peirce”, *Cuadernos de Filosofía*, 27: 23-45. [[Link](#)]
- 2007 “La imaginación en la formación de la Crítica de la razón pura”, *Alcances*, II(2): 47-66. [[Link](#)]

- 2006 “Abducción como inferencia y como intuición en Peirce”, *Grupo de Estudios Peirceanos*, Universidad de Navarra, España, 1-15. [[Link](#)]
- 2006 “Naturalismo, ontología y productividad del pensamiento. Discusión de las Variaciones de Fodor sobre Hume”, *Methodus: Revista Internacional de Filosofía Moderna*, N°1: 109-121. [[Link](#)]
- 2006 “Teoría kantiana de la actividad mental. Algunos problemas desde las ciencias cognitivas”, *Revista de Filosofía*, Vol. LXII, 41-58. [[Link](#)]
- 2005 “Peirce. Abducción *sive* lógica *sive* ontología”, *Grupo de Estudios Peirceanos*, Universidad de Navarra, España, 1-40. [[Link](#)]
- 2004 “La lógica del descubrimiento de N. R. Hanson”, *Publicaciones Especiales*, Universidad de Chile, 36(108):1-87.
- 2004 “Kant-Hume: dos gnoseologías de la imaginación”, *Publicaciones Especiales*, Universidad de Chile, Número Especial, 111-145.
- 2004 “Para una reiteración de los estudios kantianos”, *Publicaciones Especiales*, Universidad de Chile, Número Especial, 3-10.
- 2004 “La pregunta de Kant: ¿qué es el hombre?”, *Anuario de Pregrado*, N°1, Facultad de Filosofía y Humanidades, Universidad de Chile, 131-148.

#### **Publications: Book Reviews**

- 2022 Roman Frigg and 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*. [[Link](#)]
- 2022 Alejandro Cassini and 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*. [[Link](#)]
- 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 the Occasion of His 90<sup>th</sup> Birthday*. Springer, Netherlands, 2017. [[Link](#)]
- 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](#)]
- 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](#)]
- 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](#)]
- 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](#)]
- 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](#)]
- 2008 Sergio Rojas, *El problema de la historia en la filosofía crítica de Kant*, *Revista de Filosofía*, Vol. 66: 269-272. [[Link](#)]
- 2008 Charles S. Peirce, *La lógica considerada como semiótica*, *Revista de Filosofía*, Vol. 64: 261-264. [[Link](#)]
- 2008 Paul Guyer, *Knowledge, Reason, and Taste: Kant’s Response to Hume, Methodus: Revista Internacional de Filosofía Moderna*, No 3: 112-116.
- 2007 Lex Newman, Ed., *Cambridge Companion to Locke’s Essay Concerning Human Understanding*, *Methodus: Revista Internacional de Filosofía Moderna*, N°2: 110-113.
- 2006 Ricardo Salas et al, Kant y la racionalidad práctica, *Revista de Filosofía*, N°62: 177-180. [[Link](#)]
- 2006 Alejandro Ramírez, La transformación de la epistemología contemporánea, *Revista de Filosofía*, No 62: 173-177. [[Link](#)]

#### **Publications: Other Contributions**

- 2022 “Los mundos del conocimiento de Roberto Torretti”, *Revista Palabra Pública*. [[Link](#)]
- 2011 “Dostoyevski: realismo metafísico, misticismo y espíritu karamazoviano”. *Tábano*, year 2011, 1-33. [[Link](#)]
- 2010 “Pascal lector de Montaigne”. *Tábano*, 2010, 1-11. [[Link](#)]
- 2007 ‘Esquema para un ensayo naturalista y popular sobre la metafísica y el hombre (sobre Kant y Dilthey)’. *Tábano*, año 2007, 1-4. [[Link](#)]

### Work in Progress: Books

- Finished      *Leyes de la Naturaleza: Historia, Filosofía y Ciencias*. Research funded by VID, Universidad de Chile. Book contract negotiation in progress.
- Finished      *Realismo científico: debates recientes*, with Bruno Borge. Research funded by Vicerrectoría de Investigación y Desarrollo, Universidad de Chile.
- Early stage    *Physical laws and the application of mathematics*. In progress. Expected completion date: June 2024.

### Work in Progress: Articles

- R&R            “Realismo, modelos y representación”, with Bruno Borge
- Finished      “Physical modality for physical laws”
- Finished      “Mathematics, structure, and laws”
- Finished      “Newton y las leyes de la naturaleza” (in Spanish)
- Finished      “Nomic eliminativism”
- Finished      “Problemas en torno al realismo científico” (in Spanish)
- Last stage    “Wigner on physical laws and the effectiveness of mathematics”
- Last stage    “Physical laws and the effectiveness of mathematics: an empiricist approach”
- Early stage    “Daston rules and the laws of nature”
- Early stage    “Pluralism and the metaphysics of science”

### Talks (since 2011)

- 2023            ‘Mathematics, structures, and laws’, Jornadas de Fundamentos, Historia y Filosofía de la Física, Buenos Aires, Argentina, 30 Oct. – 1 Nov. 2023.
- 2023            ‘Physical laws, modality, and empiricism’, 11<sup>th</sup> European Congress for Analytic Philosophy, University of Vienna, Austria, 21-25 August 2023.
- 2023            ‘Physical laws, modality, and empiricism’, Inductive Metaphysics Conference: Insights, Challenges, and Prospects, Heinrich-Heine-Universität, Düsseldorf, Germany, 9-11 August 2023.
- 2023            ‘Physical modality for physical laws’, From Science to Metaphysics? 4<sup>th</sup> Workshop of the OLOFOS Group, UC Louvain-La-Neuve, Belgium, 11-12 May 2023.

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



- 2019 'An inferential conception of physical laws', XX Jornadas Rolando Chuaqui en Filosofía y Ciencias, PUC de Chile, 27-30 August 2019.
- 2019 'An inferential conception of physical laws', XI Principia Conference, UFSC, Brazil, 19-22 August 2019.
- 2018 '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.
- 2018 'Sobre la interacción entre física y metafísica', *VI Encuentro Circulo de Filosofía de la Naturaleza*, Universidad Austral, Chile, 21-23 November 2018.
- 2018 '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.
- 2018 '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)
- 2018 'The inferential conception of physical laws', *Workshop on Foundations of Science*, SADAFA, Buenos Aires, Argentina, 3-4 September 2018.
- 2018 '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.
- 2018 '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.
- 2018 'Metafísica de la ciencia: el caso de las leyes de la naturaleza', *Coloquios del Instituto de Física*, PUC de Valparaíso, Chile, 22 August 2018.
- 2018 '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.
- 2018 '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.
- 2017 'El argumento de la indispensabilidad epistémica en filosofía de la matemática', *Seminarios de Filosofía de la Ciencia*, IFICC, Chile, 16 November 2017.
- 2017 'Metafísica de la ciencia: aplicaciones globales y locales', *Coloquio de Filosofía*, Departamento de Filosofía, Universidad de Santiago de Chile, Chile, 7 noviembre 2017.
- 2017 'The epistemic indispensability argument', *Philosophy Colloquia*, Department of Philosophy, University of Miami, USA, 20 October 2017.

- 2017 '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.
- 2017 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.
- 2017 '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.
- 2016 '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.
- 2016 '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.
- 2016 '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.
- 2015 '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.
- 2015 'A physico-mathematical account of scientific laws', *History and Philosophy of Science Seminar Series*, University of Melbourne, Australia September 2015.
- 2015 'A minimalist approach to scientific laws', *Work in Progress Day*, University of Melbourne, Australia, June 2015.
- 2015 'Who needs mathematical ontology?', *Postgraduate Philosophy Colloquium*, University of Melbourne, Australia, April 2015.
- 2014 'Epistemic mathematical realism: a minimalist reading of indispensability arguments', *Work in Progress Day*, University of Melbourne, Australia, October 2014.
- 2014 'The role of models in scientific thinking', *History and Philosophy of Science Seminar Series*, University of Melbourne, Australia, September 2014.
- 2014 'Saving the realist stance', *Postgraduate Philosophy Colloquium*, University of Melbourne, Australia, May 2014.
- 2013 'Mathematics and metaphysics on the boundaries of scientific ontology', *Postgraduate Philosophy Colloquium*, University of Melbourne, Australia, October 2013.

- 2013 'A structural realist approach to laws of nature', *Australasian Postgraduate Philosophy Conference*, University of Melbourne, Australia, October 2013.
- 2013 'Jack Smart's scientific realism: on common sense and scientism', *Australasian Association of Philosophy Conference*, University of Queensland, Australia, July 2013.
- 2013 'Scientific metaphysics once again', *Postgraduate Philosophy Colloquium*, University of Melbourne, Australia, June 2013.
- 2013 '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.
- 2012 'What is the new metaphysics of science?', *Postgraduate Philosophy Colloquium*, University of Melbourne, Australia, November 2012.
- 2012 '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.
- 2012 'What is abductive scientific realism', *Postgraduate Philosophy Colloquium*, University of Melbourne, Australia, August 2012.
- 2012 'A New Metaphysics of Science for the Laws of Nature', *Australasian Association of Philosophy Conferences*, University of Wollongong, New South Wales, Australia, July 2012.
- 2011 '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):

- |                        |  |
|------------------------|--|
| Graduate teaching      | <ul style="list-style-type: none"> <li>• Laws of nature: science and metaphysics</li> <li>• Scientific pluralism</li> <li>• Science, metaphysics, and reality</li> </ul>   |
| Undergraduate teaching | <ul style="list-style-type: none"> <li>• Thesis seminar: current debates in philosophy of science</li> <li>• Scientific revolution (early modern HPS)</li> <li>• Introduction to the philosophy of mathematics</li> <li>• Scientific realism: current debates</li> <li>• Metaphysics of science: current debates</li> <li>• Metaphysics</li> <li>• Laws of nature</li> </ul> |

## Service

9/2022 – present	Member of the Humanities Committee (Postgraduate Committee), Comisión Nacional de Acreditación, Government of Chile.
3/2017 - present	Director, Research Group in Philosophy of Science, Universidad de Chile
12/2018 – 11/2021	Director, MA in Philosophy Program, Graduate School, Universidad de Chile
9/2016 – 6/2020	President of the Chilean Society for Philosophy of Science. Website: <a href="http://www.sochific.cl">www.sochific.cl</a>
7/2019 / 12/2020	Member of the Scientific Committee for the Latin American Association for HPS (AFHIC)
9/2016 – 11/2018	Member of the Academic Committee, MA in Philosophy Program, Graduate School, Universidad de Chile
3/2019-12/2019	Member of the Academic Committee, BA in Philosophy Program, Universidad de Chile.
10/2018 - present	Referee for <i>Comisión Nacional de Acreditación</i> , Ministry of Education, Chile

## Journal referee:

*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 activities

- 4-6/2020 Reading Group on Scientific Pluralism, Grupo de Estudios de Filosofía de las Ciencias, Universidad de Chile.
- 4-6/2020 Reading Group on Metaphysics of Science, Grupo de Estudios de Filosofía de las Ciencias, Universidad de Chile.
- 2-3, 11/2019 *Workshop on Explanation in Science and Metaphysics*, Facultad de Filosofía y Humanidades, Universidad de Chile. Invited speaker: Juha Saatsi, University of Leeds, England (cancelled due to Chilean national strikes)
- 11, 10/2019 *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.
- 4, 10/2019 *Workshop on Non-Causal Expalantion 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.
- 1-3, 10/2019 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.
- 1-15, 7/2019 *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 (cancelled due to extraordinary reasons).
- 4-11/2019 *Reading group on Roberto Torretti's Philosophy of Science*, Grupo de Estudios de Filosofía de las Ciencias, Universidad de Chile.
- 12/2018 *Workshop Metafísica: Tres Debates Recientes*, Instituto de Filosofía, PUC de Chile
- 10/2018 *Primer Congreso Nacional de Estudiantes de Filosofía de las Ciencias*, Facultad de Filosofía y Humanidades, Universidad de Chile.
- 8/2018 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
- 10/2017 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
- 26-31, 8/2017 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.

- 21-22, 8/2017      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.
- 3-12/2017          Coordinator of the *Philosophy and the Sciences Seminar*, Facultad de Filosofía y Humanidades, Universidad de Chile

### **Academic Societies Membership**

- 2018 - present      British Society for the Philosophy of Science
- 2016 - present      Sociedad Chilena de Filosofía de las Ciencias
- 2017 - present      Asociación de Filosofía e Historia de la Ciencia del Cono Sur
- 2016 - present      Society for the Philosophy of Science in Practice
- 2015 - present      Society for the Metaphysics of Science
- 2011 - present      Asociación Chilena de Filosofía
- 2012-2015          Australasian Association of Philosophy

### **References** (in alphabetic order):

1. Dr. Otávio Bueno  
Professor  
University of Miami, U.S.A.,  
E-mail: [otaviobueno@me.com](mailto:otaviobueno@me.com)
2. Dr. Anjan Chakravartty  
Professor  
University of Miami, U.S.A.  
E-mail: [chakravartty@miami.edu](mailto:chakravartty@miami.edu)
3. Dr. Roman Frigg  
Professor  
LSE, England  
E-mail: [r.p.frigg@lse.ac.uk](mailto:r.p.frigg@lse.ac.uk)
4. Dr. Alejandro Ramírez  
Professor  
Universidad de Chile, Chile  
E-mail: [alamire@uchile.cl](mailto:alamire@uchile.cl)
5. Dr. Howard Sankey  
Associate Professor  
University of Melbourne, Australia  
E-mail: [chs@unimelb.edu.au](mailto:chs@unimelb.edu.au)