
Curriculum Vitae

Personal Information

- Surname or Family Name: Fortin
- First and Middle Name: Sebastian Ezequiel
- E-mail: sfortin@conicet.gov.ar
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- Marital status: Single

Education

- Elementary School:
 - Period: 1985 – 1991
 - Institution: Anunciación de María
- High School:
 - Degree: Electronics and Communications Technician
 - Institution: E.T. n°28 “República Francesa”
 - Period: 1992 – 1997
- University degree:
 - Degree: Licenciado en Ciencias Físicas (equivalent to M.Sc. on physics)
 - Institution: University of Buenos Aires (UBA)
 - Period: 1999 – 2008
 - Research area: Foundations of Quantum Mechanics
 - Supervisor: Prof. Dr. Mario Castagnino
- Postgraduate Degree:
 - Degree: Doctor en Ciencias Físicas (PhD on physics)
 - Institution: University of Buenos Aires (UBA)
 - Period: 2008 – 2011
 - Research area: Foundations of Quantum Mechanics
 - Supervisor: Prof. Dr. Mario Castagnino

- Postgraduate Degree:
 - Degree: Doctor en Epistemología e Historia de la Ciencia (PhD on philosophy and history of science)
 - Institution: University of Tres de Febrero (UNTREF)
 - Period: 2009 – 2012
 - Research area: Foundations of Quantum Mechanics
 - Supervisor: Prof. Dra. Olimpia Lombardi

Current Activity

- *Teaching Assistant Chief* at the Department of Physics of the University of Buenos Aires.
- Researcher at the CONICET (National Council of Scientific and Technucal Research).
- Member of the Philosophy of Science Group, Faculty of Exact and Natural Sciences, University of Buenos Aires. Coordinator of the physical science area.
- Responsible member of the three-year research project “Applying a pluralistic realism to the problems of particular philosophies of sciences: physics, chemistry, biology” (PICT-2014-2812), funded by Agency Science and Technology Promotion, Fund for Scientific and Technological Research (FONCyT). Project Director: Dra. Olimpia Lombardi. Amount awarded: AR\$300,000. Period: 2015-2018.
- Co-Director of the three-year research project “A modal interpretation for the quantum ontology”, funded by the John Templeton Foundation. Project Director: Dra. Olimpia Lombardi, Project Co-director: Sebastian Fortin, Amount awarded: USD 198.934. Period: 2015-2018.
- Project Co Director of three-year research project “Towards a better understanding of the foundations of quantum mechanics: Chaos, Stories and Interpretation” (UBACyT 20020130100710BA), funded by the Ministry of Science and Technology, University of Buenos Aires. Project Director: Dr. Mario Castagnino
- Member of three-year research project “The application of a pluralistic realism problems philosophies of the special sciences” (PIP 112-201 101 - 00303), funded by the National Council for Scientific and Technical Research (CONICET). Project Director: Dr. Olimpia Lombardi.

Grants

1. Postdoctoral Grant, CONICET, 4/1/2012 - 4/31/2013. Supervisor: Dr. Mario Castagnino.
2. Doctoral Grant II, CONICET, 4/1/2011 - 3/31/2012. Supervisor: Dr. Mario Castagnino.
3. Doctoral Grant I, CONICET, 4/1/2008 - 3/31/2011. Supervisor: Dr. Mario Castagnino.
4. Doctoral Grant, UNTREF, 3/1/2010 - 12/31/2010.
5. Doctoral Grant, UNTREF, 3/1/2009 - 12/31/2009.
6. Travel Grant, “2011 CLMPS Travel Grants”, *National Science Foundation*, for travel to France to present the work “The conceptual meaning of reduced states: decoherence and interpretation”, July 2011.
7. Travel Grant, “Max Planck Institute invitation”, *Max Planck Institute for the Physics of Complex Systems* for travel to Germany to present the work “Non-unitary evolutions and non-hermitian hamiltonians in decoherence and equilibrium theory”, June 2011.
8. Travel Grant, “ICTP invitation”, *Abdus Salam International Centre for Theoretical Physics* for travel to Italy to present the work “Defining the moving preferred basis”, February 2011.
9. Travel Grant, “HSS/PSA Travel Grant”, *National Science Foundation* for travel to Italy to present the work “Compatibility between environment-induced decoherence and the modal-Hamiltonian interpretation of quantum mechanics”, November 2010.

Visits to other institutions

1. *Max Planck Institute for the Physics of Complex Systems*, Dresden, Germany: I participate in the *International Seminar for Quantum Physics with Non-Hermitian Operators*. June 2011.
2. *Center for Nonlinear and Complex systems de la Universita' degli Studi dell' Insubria*, Como, Italy. In the group of Dr. Giulio Casati. February 26th to March 4th 2011.
3. Working meeting with Dr. Giulio Casati and Dr. Tomaz Prosen in the city of Como, Italy. March 2011.
4. *Abdus Salam International Centre for Theoretical Physics*, Miramare, Trieste, Italy: participate in the *School on New Trends in Quantum Dynamics and Quantum Entanglement*. February 2011.
5. *Center for Cosmology and Particle Physics de la New York University*, New York, USA. In the group of Dr. Román Scoccimarro. October 2010.

Scientific production

Important: All works are fully collaborative: the order of the names does not mean priority.

h index = 7

Edition of books and special issues

1. *What is Quantum Information?*, O. Lombardi, S. Fortin, F. Holik and C. López (eds.), ISBN: 978-1-10714-211-4, Cambridge University Press, Cambridge, 2017.

<http://www.cambridge.org/ar/academic/subjects/physics/history-philosophy-and-foundations-physics/what-quantum-information?format=HB>

Books

1. *El Límite Clásico Basado en Decoherencia*, S. Fortin, Editorial Academica Española (AV Akademikerverlag GmbH & Co. KG.), Saarbrücken, Germany, 2012, ISBN: 978-3-659-00664-7.

<http://www.amazon.es/Límite-Clásico-Basado-Decoherencia-conceptuales/dp/3659006645>

<https://www.morebooks.de/store/es/book/el-límite-clásico-basado-en-decoherencia/isbn/978-3-659-00664-7>

2. *Introduction to the modal-Hamiltonian interpretation*, O. Lombardi, S. Fortin, J. S. Ardenghi and M. Castagnino, F. Columbus (ed.), Nova Science Publishers Inc., New York, 2010, ISBN: 978-1-61761-316-6.

<http://www.amazon.com/Introduction-Modal-Hamiltonian-Interpretation-Mechanics-Technology/dp/1617613169>

Book chapters

1. “About the Concept of Information”, S. Fortin and O. Lombardi, in O. Lombardi, S. Fortin, F. Holik and C. Lopez (eds.), *What is Quantum Information?* ISBN: 978-1-10714-211-4, Cambridge University Press, Cambridge, 2017, pp. 9-34.

<https://www.cambridge.org/core/books/what-is-quantum-information/67DDC8AD223179EB75B26FDFABC3B148>

2. “A top-down view of the classical limit of quantum mechanics”, S. Fortin and O. Lombardi, in R. E. Kastner, J. Jeknic-Dugic and G. Jaroszkiewicz (eds.), *Quantum Structural Studies: Classical Emergence from the Quantum Level*, ISBN: 978-1-78634-140-2, World Scientific Europe, London, 2016, pp. 435-468.

<http://www.worldscientific.com/worldscibooks/10.1142/q0041>

<http://www.filoexactas.exactas.uba.ar/sfortin/papers/topdownview.pdf>

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3. “¿Favorece la mecánica cuántica un indeterminismo epistemológico u ontológico?”, L. Vanni and S. Fortin, *¿Determinismo o Indeterminismo?: Grandes preguntas de las ciencias a la filosofía*, C. Vanney y J. F. Franck (eds.), ISBN: 978-987-732-067-1, Rosario: Ediciones Logos, pp. 213-242, 2016.
<https://www.amazon.com/%C2%BFDETERMINISMO-INDETERMINISMO-preguntas-ciencias-filosof%C3%ADa-ebook/dp/B01IAG56R2>
<http://www.filoexactas.exactas.uba.ar/sfortin/papers/determinismo2.pdf>
 4. “Una perspectiva diacrónica en la estructura de la lógica cuántica”, S. Fortin and L. Vanni, in José Ahumada and Silvio Seno Chibeni (eds.), *Filosofía e Historia de la Ciencia en el Cono Sur, Volumen IX*, ISBN: 978-987-707-026-2, 716 pages, Associação de Filosofia e História da Ciência do Cone Sul (AFHIC), Córdoba, 2015, pp. 31-39.
<http://www.filoexactas.exactas.uba.ar/sfortin/papers/afhic2012.pdf>
 5. “Determinismo e indeterminismo en mecánica cuántica”, S. Fortin, in C. Vanney and O. Lombardi (eds.), *Fronteras del Determinismo Científico. Filosofía y Ciencias en Diálogo*. Editorial Biblioteca Nueva, ISBN: 978-84-16345-72-4, Colección Fronteras, Madrid, 2015, pp. 68-84.
<https://www.amazon.com.mx/Fronteras-determinismo-cient%C3%ADfico-Filosof%C3%ADa-ciencias/dp/8416345724>
<http://www.filoexactas.exactas.uba.ar/sfortin/papers/determinismo.pdf>
 6. “The ontological status of open quantum systems”, S. Fortin, *Advances in Quantum Systems Research*, Zoheir Ezziane (ed.), ISBN: 978-1-62948-645-1, eISBN: 978-1-62948-656-7, Nova Science Publishers Inc., New York, 2014, pp. 387-410.
https://www.novapublishers.com/catalog/product_info.php?products_id=46876&osCsid=09a6cfcfdb4bee34fa6e004c83f83bd
<http://cms.iafe.uba.ar/sfortin/articulos/NOVA2013.pdf>
 7. “Una descripción de la apariencia del mundo clásico sin apelar a límites reductivos”, G. Bellomo and S. Fortin, *Epistemología e Historia de la Ciencia 2013*, H. Severgnini, J. G. Morales and D. L. Rabinovich (eds.), ISBN: 978-950-33-1073-1, Centro de Investigaciones de la Facultad de Filosofía y Humanidades de la Universidad Nacional de Córdoba, Córdoba, pp. 53-63, 2013.
<http://www.filoexactas.exactas.uba.ar/sfortin/papers/lafalda2012.pdf>
 8. “The problem of identifying the system and the environment in the phenomenon of decoherence”, O. Lombardi, S. Fortin and M. Castagnino, *EPSA Philosophy of Science: Amsterdam 2009, The European Philosophy of Science Association Proceedings 1*, H. W. de

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- Regt, S. Hartmann and S. Okasha (eds.), Springer, Berlin, 2012, pp. 161-174. ISBN 978-94-007-2403-7 eISBN 978-94-007-2404-4.
<http://www.springerlink.com/content/978-94-007-2403-7>
<http://philsci-archive.pitt.edu/archive/00005183/>
9. “¿Cómo se distingue el sistema que decohere de su entorno?”, S. Fortin and O. Lombardi, *Filosofia e História da Ciência no Cone Sul. Seleção de Trabalhos do 7º Encontro*, C. Celestino Silva and L. Salvático (eds.), ISBN: 978-85-60084-04-3, 589 pages, Associação de Filosofia e História da Ciência do Cone Sul (AFHIC), Porto Alegre, 2012, pp. 529-535.
<http://cms.iafe.uba.ar/sfortin/articulos/AFHIC2010.pdf>
10. “El problema de la definición de la base privilegiada móvil y una posible solución”, M. Castagnino and S. Fortin, *Epistemología e Historia de la Ciencia 2012*, L. Salvatico and M. Bozzoli L. Pesenti (eds.), ISBN 978-950-33-0999-5, Centro de Investigaciones de la Facultad de Filosofía y Humanidades de la Universidad Nacional de Córdoba, Córdoba, Argentina, pp. 137-145, 2012.
<http://cms.iafe.uba.ar/sfortin/articulos/LaFalda2011.pdf>
11. “The modal-Hamiltonian interpretation of quantum mechanics: physical relevance and philosophical implications”, O. Lombardi, S. Fortin, M. Castagnino and J. S. Ardenghi, *Quantum Mechanics*, Jonathan P. Groffe (ed.), ISBN 978-1-61728-966-8, Nova Science Publishers Inc., New York, 2010, pp. 1-62.
https://www.novapublishers.com/catalog/product_info.php?products_id=12826
12. “El esquema general de la decoherencia como punto de partida para un enfoque basado en valores medios”, M. Castagnino and S. Fortin, *Epistemología e Historia de la Ciencia 2009*, P. García and A. Massolo (eds.), Centro de Investigaciones de la Facultad de Filosofía y Humanidades de la Universidad Nacional de Córdoba, Córdoba, Argentina, pp. 142-150, Año 2010, ISBN 978-950-33-0816-5.
<http://cms.iafe.uba.ar/sfortin/articulos/Falda09.pdf>
13. “Sobre un punto de vista heurístico concerniente a la naturaleza del espacio en mecánica cuántica”, S. Fortin, M. Narvaja and M. Lastiri, *Epistemología e Historia de la Ciencia 2008*, D. Letzen and P. Lodeyro (eds.), Centro de Investigaciones de la Facultad de Filosofía y Humanidades de la Universidad Nacional de Córdoba, Córdoba, Argentina, pp. 198-204, Año 2009, ISBN 978-950-33-0756-4.
<http://cms.iafe.uba.ar/sfortin/articulos/Falda09.pdf>
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Refereed publications in journals

- [1] “A new application of the modal-Hamiltonian interpretation of quantum mechanics: the problem of optical isomerism”, S. Fortin, O. Lombardi and J. C. Martinez Gonzalez, *Studies in History and Philosophy of Modern Physics*, in press.
<https://www.sciencedirect.com/science/article/pii/S1355219816301605>
<http://philsci-archive.pitt.edu/12672/>
- [2] “La Teoría Cuántica de Átomos en Moléculas y su rol en la reducción de la química a la física”, J. A. Jaimes Arriaga y S. Fortin, *Metatheoria – Revista de Filosofía e Historia de la Ciencia*, en prensa, 2017.
- [3] “¿Es posible definir una flecha cuántica del tiempo mediante la hipótesis del colapso?”, C. López y S. Fortin, *Metatheoria – Revista de Filosofía e Historia de la Ciencia*, en prensa, 2017.
- [4] “Let us build better boats. An answer to Jeffrey Seeman's "Moving beyond insularity in the history, philosophy, and sociology of chemistry"”, S. Fortin, O. Lombardi and J. C. Martínez González, *Foundations of Chemistry*, in press.
<https://link.springer.com/article/10.1007/s10698-018-9307-x>
- [5] Corresponding Author of “Classical limit and quantum logic”, M. Losada, S. Fortin and F. Holik, *International Journal of Theoretical Physics*, Volume 57, Issue 2, pp 465–475, 2018.
<https://link.springer.com/article/10.1007/s10773-017-3579-0>
<http://philsci-archive.pitt.edu/14053/>
- [6] “Interpretation and Decoherence: A Contribution to the Debate Vassallo & Esfeld Versus Crull”, S. Fortin and O. Lombardi, *Foundations of Physics*, Volume 47, Issue 11, pp 1423-1427, 2017.
<https://link.springer.com/article/10.1007/s10701-017-0121-4>
<http://philsci-archive.pitt.edu/14052>
- [7] “Interpretations of Quantum Theory in the Light of Modern Cosmology”, M. Castagnino, S. Fortin, R. Laura and D. Sudarsky, *Foundations of physics*, Volume 47, Issue 11, pp 1387–1422, 2017.
<https://link.springer.com/article/10.1007/s10701-017-0100-9>
<https://arxiv.org/abs/1412.7576>
- [8] “The relationship between chemistry and physics from the perspective of Bohmian mechanics”, S. Fortin, O. Lombardi and J. C. Martinez Gonzalez, *Foundations of Chemistry*, Volume 19, Issue 1, pp 43-59, 2017.
<https://link.springer.com/article/10.1007/s10698-017-9277-4>
<http://philsci-archive.pitt.edu/12904>

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- [9] “On the interpretation of probabilities in generalized probabilistic models”, F. Holik, S. Fortin, G. Bosyk and A. Plastino, *Lecture Notes in Computer Science*, in press, Volume 10106, pp 194-205, 2017.
http://link.springer.com/chapter/10.1007/978-3-319-52289-0_16
<http://philsci-archive.pitt.edu/12905>
- [10] “Deflating the deflationary view of information”, O. Lombardi, S. Fortin and C. López, *European Journal for Philosophy of Science*, Volume 6, Issue 2, pp 209-230, 2016.
<http://link.springer.com/article/10.1007/s13194-015-0128-7>
<http://philsci-archive.pitt.edu/10910/>
- [11] “Isomerism and decoherence”, S. Fortin, O. Lombardi and J. C. Martinez Gonzalez, *Foundations of Chemistry*, Volume 18, Issue 3, pp 225-240, 2016.
<http://link.springer.com/article/10.1007%2Fs10698-016-9251-6>
<http://philsci-archive.pitt.edu/11965/>
- [12] “Non-unitary evolution of quantum logics”, S. Fortin, F. Holik and L. Vanni, *Springer Proceedings in Physics*, Volume 184, pp 219-234, 2016.
http://link.springer.com/chapter/10.1007/978-3-319-31356-6_14
<http://philsci-archive.pitt.edu/12903>
- [13] “The Role of Symmetry in the Interpretation of Quantum Mechanics”, O. Lombardi y S. Fortin, *Electronic Journal of Theoretical Physics*, Volume 12, Issue IYL15-34, 255-272, 2015.
<http://www.ejtp.com/iyl2015>
<http://arxiv.org/abs/1602.07160>
- [14] “Measurement, interpretation and information”, O. Lombardi, S. Fortin y C. López, *Entropy*, Volume 17, Issue 11, 7310-7330, 2015.
<http://www.mdpi.com/1099-4300/17/11/7310>
<http://arxiv.org/abs/1603.03941>
- [15] “A semiclassical condition for chaos based on Pesin theorem”, I. Gomez, M. Losada, S. Fortin, M. Castagnino and M. Portesi, *International Journal of Theoretical Physics*, Volume 54, Issue 7, pp. 2192- 2203, 2015.
<http://link.springer.com/article/10.1007/s10773-014-2437-6>
<http://arxiv.org/abs/1401.3735>
- [16] “A pluralist view about information”, S. Fortin, O. Lombardi and L. Vanni, *Philosophy of Science*, Volume 82, No. 5, pp. 1248-1259, 2015.
<http://philsci-archive.pitt.edu/10907/>
www.jstor.org/stable/10.1086/683650
- [17] “Quantum decoherence: a logical perspective”, S. Fortin y L. Vanni, *Foundations of Physics*, Volume 44, Issue 12, pp. 1258-1268, 2014.
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- <http://link.springer.com/article/10.1007%2Fs10701-014-9805-1>
<http://arxiv.org/abs/1505.03965>
- [18] “Partial traces in decoherence and in interpretation: What do reduced states refer to?”, S. Fortin and O. Lombardi, *Foundations of Physics*, Volume 44, Issue 4, pp. 426-446, 2014.
<http://link.springer.com/article/10.1007%2Fs10701-014-9791-3>
<http://arxiv.org/abs/1404.3264>
- [19] Corresponding Author de “Decoherence: a closed-system approach”, S. Fortin, O. Lombardi and M. Castagnino, *Brazilian Journal of Physics*, Volume 44, Issue 1, pp 138-153, 2014.
<http://link.springer.com/article/10.1007/s13538-013-0151-0>
<http://arxiv.org/abs/1402.3525>
- [20] Corresponding Author de “La relación entre química y física: isomerismo óptico y la paradoja de Hund”, S. Fortin and J. C. Martínez González, *Revista Colombiana de Filosofía de la Ciencia*, Volumen XIII, Número 26, pp. 199-224, 2013.
http://www.uelbosque.edu.co/sites/default/files/publicaciones/revistas/revista_colombiana_filosofia_ciencia/volumen13_numero26-2013/10Articulo_revista_filosofia_VolXIII_No26.pdf
<http://filoexactas.exactas.uba.ar/sfortin/papers/isomerismo.pdf>
- [21] Corresponding Author of “Medición y decoherencia desde la perspectiva de los sistemas cerrados”, S. Fortin, *Anuario Filosófico*, Departamento de Filosofía de la Facultad de Filosofía y Letras de la Universidad de Navarra, Volumen 46, Número 2, pp. 281-310, 2013.
<http://dspace.si.unav.es/dspace/handle/10171/34416>
<http://cms.iafe.uba.ar/sfortin/articulos/anuario.pdf>
- [22] Corresponding Author of “Formal features of a General Theoretical Framework for Decoherence in open and closed systems”, M. Castagnino and S. Fortin, *International Journal of Theoretical Physics*, Springer, Volume 52, Issue 5, pp. 1379-1398, 2013.
<http://link.springer.com/article/10.1007%2Fs10773-012-1456-4>
<http://arxiv.org/abs/1307.3036>
- [23] Corresponding Author de “Non-Hermitian Hamiltonians in decoherence and equilibrium theory”, M. Castagnino and S. Fortin, *Journal of Physics A: Mathematical and Theoretical*, *Journal of Physics A: Mathematical and Theoretical*, Institute of Physics and IOP Publishing Limited, Volumen 45, #444009, 2012.
<http://iopscience.iop.org/1751-8121/45/44/444009>
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- [24] Corresponding Author of “Hacia una mejor comprensión de la decoherencia desde una perspectiva general”, S. Fortin, *Revista Colombiana de Filosofía de la Ciencia*, Volumen XII, Número 24, pp. 65-82, 2012.
<http://www.redalyc.org/articulo.oa?id=41423933005>
- [25] “Compatibility between environment-induced decoherence and the modal-Hamiltonian interpretation of quantum mechanics”, O. Lombardi, S. Fortin, M. Castagnino and S. Ardenghi, *Philosophy of Science*, Volume 78, pp. 1024-1036, 2011.
<http://www.jstor.org/discover/10.1086/662253?uid=3737512&uid=2&uid=4&sid=21102644579381>
<http://philsci-archive.pitt.edu/8389/>
- [26] Corresponding Author of “New bases for a general definition for the moving preferred basis”, M. Castagnino and S. Fortin, *Modern Physics Letters A*, Volume 26, Issue 31, pp. 2365-2373, 2011.
<http://www.worldscinet.com/mpla/26/2631/S0217732311036735.html>
<http://lanl.arxiv.org/abs/1103.6188>
- [27] Corresponding Author of “Predicting decoherence in discrete models”, M. Castagnino and S. Fortin, *International Journal of Theoretical Physics*, Springer, Volume 50, Number 7, 2259-2267, 2011.
<http://www.springerlink.com/content/f7345h5271272841/>
<http://arxiv.org/abs/1010.3253>
- [28] “Foundations of quantum mechanics: decoherence and interpretation”, S. Ardenghi, S. Fortin, M. Narvaja and O. Lombardi, *International Journal of Modern Physics D*, World Scientific, Volume 20, Issue 5, pp. 861-875, 2011.
<http://www.worldscinet.com/ijmpd/20/2005/S0218271811019074.html>
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- [29] “The effect of random coupling coefficients on decoherence”, M. Castagnino, S. Fortin and O. Lombardi, *Modern Physics Letters A*, World Scientific, Print ISSN: 0217-7323 Online ISSN: 1793-6632), Volume 25, Issue 8, pp. 611-617, 2010.
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- [30] “Suppression of decoherence in a generalization of the spin-bath model”, M. Castagnino, S. Fortin and O. Lombardi, *Journal of Physics A: Mathematical and Theoretical*, Institute of

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- [32] “A general theoretical framework for decoherence in open and closed systems”, M. Castagnino, S. Fortin, R. Laura and O. Lombardi, *Classical And Quantum Gravity*, Print ISSN: 0264-9381, Online ISSN: 1361-6382, Volumen 25, 154002, 2008.
<http://www.iop.org/EJ/abstract/0264-9381/25/15/154002>
<http://arxiv.org/abs/0907.1337>
- [33] “Colaboración Ítalo-Argentina para el estudio de celdas solares basadas en materiales III-V”, J. Plá, M. Barrera, M. Bosi, C. Pelosi, G. Attolini, F. Rubinelli, S. Fortin and M.G. Martínez Bogado, *Avances en Energías Renovables y Medio Ambiente (AvERMA)*, ISSN: 0329-5184, Vol. 10, Pág. 04-61, 2006.
<http://www.cricyt.edu.ar/lahv/asades/averma/2006/fot04.pdf>
<http://cms.iafe.uba.ar/sfortin/articulos/04-61.PDF>
- [34] “Un diseño simple orientado a objetos de un equipo de fútbol de robots”, A. Martínez, D. Park, J. Burella, G. Viscuso, F. Holik y S. Fortin, *Actas del III Workshop en Inteligencia Artificial aplicada a Robótica Móvil*, Universidad Abierta Interamericana, Buenos Aires, 2006.
<http://cms.iafe.uba.ar/sfortin/articulos/SimpleSot.CAFR2006.pdf>
- [35] “Respuesta espectral de celdas solares multijuntura para aplicaciones espaciales: diseño del equipo y primeras mediciones”, S. Fortin, M.G. Martínez Bogado and J. Plá, *Avances en Energías Renovables y Medio Ambiente (AvERMA)*, ISSN: 0329-5184, Vol. 9, Pág. 04-01, 2005.
<http://www.asades.org.ar/averma/9-2005/04-01.pdf>
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- [36] “Observaciones del asteroide 4 VESTA”, S. Fortin, P. Mastrodonato, J. Pastini, A. Gonzalez and L.Zanellato, *Revista Astronómica*, ISSN 0044-9253, N°252, 10, 1995.
<http://cms.iafe.uba.ar/sfortin/articulos/4Vesta.pdf>
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Publications without peer review

1. “Decoherence as a relative phenomenon: a generalization of the spin-bath model”, M. Castagnino, S. Fortin and O. Lombardi, *Los Alamos National Laboratory*, arXiv:0907.1933v1, 2009.
<http://arxiv.org/abs/0907.1933>
2. Publications of asteroid positions in *Minor Planet Circulars* (IAU, Harvard-Smithsonian Astrophysical Observatory, USA) and *Minor Planet Bulletin* (ALPO Minor Planet Section, Texas, USA).

Publications in Books of Abstracts

1. “On the ontological status of molecular structure: is it possible to reconcile molecular chemistry with quantum mechanics?”, S. Fortin, M. Labarca and O. Lombardi, *Book of Abstracts of the ISPC Paris Conference 2017*, University Paris Diderot, France, 2017.
2. “Non-unitary evolution of quantum logical structure”, M. Losada, S. Fortin and F. Holik, *PHHQ17 Conference Abstracts*, Universität Stuttgart, Stuttgart, Germany, 2017.
3. “Classical Limit and Quantum Logic”, S. Fortin and F. Holik, *PSA2016 Conference Abstracts*, Philosophy of Science Association, Atlanta, USA, 2016.
4. “Simetrías e interpretación de la mecánica cuántica”, S. Fortin and C. Lopez, *Libro de resúmenes de la 101a Reunión de la Asociación Física Argentina*, Universidad Nacional de Tucumán, San Miguel de Tucumán, Argentina, 2016.
5. “Lógica cuántica dinámica”, M. Losada, F. Holik y S. Fortin, *Libro de resúmenes de la 101a Reunión de la Asociación Física Argentina*, Universidad Nacional de Tucumán, San Miguel de Tucumán, Argentina, 2016.
6. “Modelos atómicos y moleculares: ¿independencia conceptual o relativa?”, H. Accorinti, J. C. Martínez González and S. Fortin, *PROGRAMA E RESUMOS - AFHIC X Encontro de Filosofia e História da Ciência do Cone Sul*, Associação de Filosofia e História da Ciência do Cone Sul, Águas de Lindoia, Brasil, 2016.
7. “El problema de los enantiómeros en química cuántica”, J. C. Martínez González, S. Fortin and O. Lombardi, *PROGRAMA E RESUMOS - AFHIC X Encontro de Filosofia e História da*

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- Ciência do Cone Sul*, Associação de Filosofia e História da Ciência do Cone Sul, Águas de Lindoia, Brasil, 2016.
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 9. “Límite clásico e historias cuánticas”, M. Losada, P. Iturbide and S. Fortin, *PROGRAMA E RESUMOS - AFHIC X Encontro de Filosofia e História da Ciência do Cone Sul*, Associação de Filosofia e História da Ciência do Cone Sul, Águas de Lindoia, Brasil, 2016.
 10. “Isomerismo óptico e interpretación de la mecánica cuántica”, O. Lombardi, S. Fortin y J. C. Martínez González, *Jornadas Rolando Chuaqui Kettlun 2016, Libro de Resúmenes*, Universidad de Chile, Santiago, Chile, 2016.
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 12. “Bohm’s Quantum Theory of Motion for Quantum Chemistry”, S. Fortin, J. C. Martínez González and O. Lombardi, in *Book of Abstracts and conference program, International Society for Philosophy of Chemistry 20th Annual Symposium*, Florida Atlantic University, Boca Raton, USA, 2016.
 13. “Classical Limit from a Quantum Logical Perspective”, S. Fortin, F. Holik and L. Vanni, in the *Book of extended abstracts of the Fifth Conference of the European Philosophy of Science Association*, Duesseldorf Center for Logic and Philosophy of Science (DCLPS), Duesseldorf, Germany, 2015.
 14. “Una navaja de Ockham informacional”, S. Fortin y C. López, in the *Libro de resúmenes de las XVI Jornadas Rolando Chuaqui Kettlun*, Universidad de Santiago de Chile, Santiago, Chile, 2015.
 15. “Entropía e Información”, C. López, S. Fortin and M. Labarca, in the *Libro de resúmenes del XVII Congreso Nacional de Filosofía*, Universidad Nacional del Litoral, Santa Fe, Argentina, 2015.
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17. “Entropy and information: the many faces of their relationship”, S. Fortin and O. Lombardi, in the Book of Abstracts of the International Society for the Philosophy of Chemistry (ISPC) Summer Symposium 2014, London, United Kingdom, 2014.
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 18. “Isomerismo óptico y la paradoja de Hund”, S. Fortin and J. C. Martínez González, Libro de resúmenes de la Bienal Latinoamericana de Óptica Cuántica 2014, Universidad de La Plata, La Plata, Buenos Aires, Argentina.
 19. “Información y flecha del tiempo”, S. Fortin and C. López, Libro de resúmenes de la 99ª Reunión Nacional de la Asociación Física Argentina, Asociación Física Argentina, Tandil, Buenos Aires, Argentina.
 20. “Un estudio sobre el concepto de información cuántica”, S. Fortin, F. Holik, M. Labarca and J. C. Martínez González, Libro de resúmenes de la 99ª Reunión Nacional de la Asociación Física Argentina, Asociación Física Argentina, Tandil, Buenos Aires, Argentina.
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 23. “El papel de la simetría en química cuántica”, G. Bellomo and S. Fortin en XVI Congreso Nacional de Filosofía, libro de resúmenes, C. Abreu O. Murad and V. Tosí (eds.), Al Sur Producciones Gráficas, Buenos Aires, Argentina, 2013.
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Systematic teaching material

1. Author: “Decoherencia cuántica”, S. Fortin, Diccionario Interdisciplinar Austral (DIA), 2017.

http://dia.austral.edu.ar/Decoherencia_cuántica

2. Author: “Problemas ontológicos de la mecánica cuántica”, S. Fortin y C. López, Diccionario Interdisciplinar Austral (DIA), 2017.

http://dia.austral.edu.ar/Problemas_ontológicos_de_la_mecánica_cuántica

3. Traduction: “Medición en teoría cuántica”, S. Fortin, Diccionario Interdisciplinar Austral (DIA), 2016.

http://dia.austral.edu.ar/Medición_en_teoría_cuántica

Articles submitted to refereed international journals

1. “Deflating the deflationary view of information”, O. Lombardi, S. Fortin and C. López, enviado a *Philosophy of Science*, 2015.
2. “Quantum to classical limit of open systems”, G. Bellomo, M. Castagnino, S. Fortin, enviado a *Journal of Physics A*, 2014.
3. “Isomerism and decoherence”, S. Fortin, O. Lombardi and J. C. Martinez Gonzalez, enviado a *Foundations of Chemistry*, 2015.

Articles in preparation

1. “Lochsmidt echo and Decoherence”, S. Fortin, 2015.
2. “Relation between the whole and the parts in decoherence models”, S. Fortin, 2015.
3. “Defining the moving preferred basis in closed systems”, M. Castagnino and S. Fortin, 2015.
4. “Logical consistency of the moving decoherence basis in generalized contexts”, M. Castagnino and S. Fortin, 2014.
5. “Dissipation and decoherence in closed and open systems”, M. Castagnino, S. Fortin and O. Lombardi, 2014.

Participation as a speaker in scientific meetings

Important: All works are fully collaborative: the order of the names does not mean priority.

1. Oral presentation, “Logical classical limit”, M. Losada and S. Fortin, *VII Conference on Quantum Foundations: 90 years of uncertainty (VIIJFC)*, Córdoba, Argentina, 2017. November 29th to December 1st, 2017.
2. Oral presentation, “What is the rol of the Quantum Theory of Atoms in Molecules in the reduction of chemistry to physics?”, J. A. Jaimes Arriaga and S. Fortin, *VII Conference on Quantum Foundations: 90 years of uncertainty (VIIJFC)*, Córdoba, Argentina, 2017. November 29th to December 1st, 2017.
3. Oral presentation, “Un análisis crítico de la Teoría Cuántica de Átomos en Moléculas (TCAEM) y su rol en la reducción de química molecular a mecánica cuántica”, J. A. Jaimes Arriaga and S. Fortin, *XXVIII Jornadas de Epistemología e Historia de la Ciencia*, La Falda, Argentina, 2017. October 9th to 11th, 2017.
4. Oral presentation, “Un acercamiento filosófico a la Teoría Cuántica de Átomos en Moléculas”, J. A. Jaimes Arriaga and S. Fortin, *XVIII Jornadas Rolando Chuaqui K.*, Valparaíso, Chile, 2017. August 23rd to 25th, 2017.
5. Oral presentation, “Teoría cuántica de átomos en moléculas: un caso de estudio para las relaciones interteóricas”, J. A. Jaimes Arriaga and S. Fortin, *XVIII Congreso Nacional de Filosofía AFRA*, San Juan, Argentina, 2017. October 4th to 6th, 2017.
6. Oral presentation, “On the ontological status of molecular structure: is it possible to reconcile molecular chemistry with quantum mechanics?”, S. Fortin, M. Labarca and O. Lombardi, *International Society for the Philosophy of Chemistry (ISPC)*, Paris, France, 2017. July 3rd to 5th, 2017.
7. Oral presentation, “Acerca del estatus ontológico de la estructura molecular: ¿química molecular o mecánica cuántica?”, S. Fortin, M. Labarca and O. Lombardi, *IV Congreso Iberoamericano de Filosofía de la Ciencia y la Tecnología*, Salamanca, Spain, 2017. July 3rd to 7th, 2017.
8. Oral presentation, “Non-unitary evolution of quantum logical structure”, M. Losada, S. Fortin and F. Holik, *PHHQP17: Non-Hermitian Hamiltonians in Physics: Theory and Experiment*, Bad Honnef, Germany. May 15th to 19th, 2017.
9. Poster presentation, “Classical limit from a logical perspective”, M. Losada y S. Fortin, *14th Granada Seminar*, Granada, España, 2017. June 20th to 23rd, 2017.

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10. Poster presentation, “Non-Hermitian Hamiltonians and Dynamical Logics”, M. Losada and S. Fortin, *PHHQP17: Non-Hermitian Hamiltonians in Physics: Theory and Experiment*, Bad Honnef, Germany. May 15th to 19th, 2017.
 11. Oral presentation, “Decoherencia e isomerismo óptico”, S. Fortin and C. Gonzalez Martinez, *II Workshop de Ontología de la Física*, Buenos Aires, Argentina. June 5th to 6th, 2017.
 12. Oral presentation, “About the concept of quantum information”, S. Fortin and O. Lombardi, *VI Jornadas de Fundamentos de Cuántica*, Centro Científico Tecnológico del CONICET, La Plata, Argentina. December 12th to 14th 2017.
 13. Oral presentation, “Classical Limit and Quantum Logic”, S. Fortin and F. Holik, *The 25th Biennial Meeting of the Philosophy of Science Association (PSA2016)*, Atlanta, USA, 2016. November 3rd to 5th, 2016.
 14. Oral presentation, “¿Qué significa “ser local”?”, M. Losada, C. López and S. Fortin, *XXVII Jornadas de Epistemología e Historia de la Ciencia*, La Falda, Córdoba, Argentina. November 7th to 9th, 2016.
 15. Oral presentation, “La irrupción de la mecánica cuántica en el ámbito de la información”, S. Fortin, *XXII Jornadas de Epistemología de las Ciencias Económicas*, Buenos Aires, Argentina. October 19th to 21st, 2016.
 16. Poster presentation, “Simetrías e interpretación de la mecánica cuántica”, S. Fortin and C. López, *101^a Reunión Nacional de la Asociación Física Argentina*, San Miguel de Tucumán, Tucumán, Argentina. October 04th to 07th, 2016.
 17. Poster presentation, “Lógica cuántica dinámica”, M. Losada, F. Holik and S. Fortin, *101^a Reunión Nacional de la Asociación Física Argentina*, San Miguel de Tucumán, Tucumán, Argentina. October 04th to 07th, 2016.
 18. Oral presentation, “Modelos atómicos y moleculares: ¿independencia conceptual o relativa?”, H. Accorinti, J. C. Martínez González and S. Fortin, *X Encuentro de Filosofía e Historia de la Ciencia del Cono Sur (AFHIC 2016)*, Águas de Lindoia, Brasil. September 12nd to 15th, 2016.
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 23. Oral presentation, “Historias cuánticas: El formalismo de Contextos Generalizados”, M. Losada, C. López y S. Fortin, *XVII Jornadas Rolando Chuaqui Kettlun*, Universidad de Chile, Santiago, Chile. August 24th to 26th, 2016.
 24. Oral presentation, “On the interpretation of probabilities in generalized probabilistic models”, F. Holik, S. Fortin, G. Bosyk and A. Plastino, *10th International Quantum Interaction Conference (QI 2016)*, San Francisco, USA. July 20th to 22nd, 2016.
 25. Oral presentation, “Bohm’s Quantum Theory of Motion for Quantum Chemistry”, S. Fortin, J. C. Martínez González and O. Lombardi, *International Society for the Philosophy of Chemistry (ISPC) Summer Symposium 2016*, Boca Ratón, USA. August 1st to 4th, 2016.
 26. Oral presentation, “Towards a dynamics for quantum logic”, S. Fortin and F. Holik, *The 18th UK and European Conference on Foundations of Physics (FOUNDATIONS 2016)*, London School of Economics, London, UK. July 16th to 18th, 2016.
 27. Oral presentation, “Invariances in the interpretation of quantum mechanics”, S. Fortin, *Leuven-Buenos Aires workshop on Philosophy of Physics*, KU Leuven, Leuven, Belgium. July 26th to 27th, 2016.
 28. Oral presentation, “Quantum mechanics: symmetry and interpretation”, S. Fortin and O. Lombardi, *The 18th UK and European Conference on Foundations of Physics (FOUNDATIONS 2016)*, London School of Economics, London, UK. July 16th to 18th, 2016.
 29. Oral presentation, “Quantum decoherence in the understanding of optical isomerism”, J. C. Martínez González and S. Fortin, *V Jornadas de Fundamentos de Cuántica*, University of La Plata, Buenos Aires, Argentina. December 1st to 4th, 2015.

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 31. Oral presentation, “¿Permite el colapso definir una flecha cuántica del tiempo?”, C. López and S. Fortin, *XXVI Jornadas de Epistemología e Historia de la Ciencia*, La Falda, Córdoba, Argentina. November 16th to 18th, 2015.
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 34. Oral presentation, “Una navaja de Ockham informacional”, S. Fortin and C. López, *XVI Jornadas Rolando Chuaqui Kettlun*, Universidad de Santiago de Chile, Santiago, Chile. August 26th to 28th, 2015.
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 37. Poster presentation “A semiclassical condition for chaos based on Pesin theorem”, I. Gomez, M. Losada, S. Fortin, M. Castagnino and M. Portesi, in the *School and Conference on Dynamical Systems*, Trieste, Italy. July 20th to August 7th, 2015.
 38. Oral presentation, “About the concept of information”, O. Lombardi and S. Fortin, *International Workshop: What is Quantum Information*, Buenos Aires, Argentina. May 18th to 22nd, 2015.

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 40. Oral presentation, “Repensando la Teleportación”, L. Vanni and S. Fortin, *IV Jornadas de Fundamentos de Cuántica*, Rosario Institute of Physics, Santa Fe, Argentina. November 27th to 29th, 2014.
 41. Oral presentation, “About the concept of quantum information”, S. Fortin and O. Lombardi, *South American Workshop on the Foundations of Quantum Theory and Cosmology*, San Pablo, Brasil. November 3^{dr} to 7th, 2014.
 42. Oral presentation, “A pluralist view about information”, S. Fortin, O. Lombardi and L. Vanni, *Philosophy of Science Meeting 2014*, Chicago, Illinois, USA. November 6th to 9th, 2014.
 43. Oral presentation, “Isomerismo óptico y la paradoja de Hund”, S. Fortin and J. C. Martínez González, *Bienal Latinoamericana de Óptica Cuántica*, La Plata, Buenos Aires, Argentina. October 22nd to 24th, 2014.
 44. Oral presentation, “Aplicación de modelos cuánticos de sistemas clásicos a la teoría de la información cuántica”, S. Fortin and F. Holik, *IX Encuentro de Filosofía e Historia de la Ciencia del Cono Sur and XXV Jornadas de Epistemología e Historia de la Ciencia*, Los Cocos, Córdoba, Argentina. September 15th to 19th, 2014.
 45. Poster presentation, “Información y flecha del tiempo”, S. Fortin and C. López, *99^a Reunión Nacional de la Asociación Física Argentina*, Tandil, Buenos Aires, Argentina. September 22nd to 25th, 2014.
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 47. Oral presentation, “Entropy and information: the many faces of their relationship”, S. Fortin and O. Lombardi, *International Society for the Philosophy of Chemistry (ISPC) Summer Symposium 2014*, London, United Kingdom. July 7th to 9th, 2014.
 48. Oral presentation, “A closed-system perspective for decoherence”, S. Fortin, *New Directions in the Foundations of Physics*, Washington, DC, USA. April 18th to 20th, 2014.

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 50. Oral presentation, “La estructura molecular y la mecánica cuántica: el caso de los isómeros ópticos”, S. Fortin and J. C. Martínez González, *XXIV Jornadas de Epistemología e Historia de la Ciencia*, La Falda, Córdoba, Argentina. October 17th to 20th, 2013.
 51. Oral presentation, “El estatuto ontológico de las probabilidades en física”, S. Fortin and M. Saenz, *XXIV Jornadas de Epistemología e Historia de la Ciencia*, La Falda, Córdoba, Argentina. October 17th to 20th, 2013.
 52. Oral presentation, “The problem of optical isomerism: the hund paradox”, S. Fortin and J. C. Martínez González, in *International Society for the Philosophy of Chemistry (ISPC) Summer Symposium 2013*, Montevideo, Uruguay. July 31st to 3^{dr} August, 2013.
 53. Oral presentation, “Las más recientes interpretaciones de la mecánica cuántica, ¿favorecen un indeterminismo epistemológico u ontológico?”, S. Fortin, in *Workshop Determinismo e Indeterminismo: De la Física a la Filosofía*, Pilar, Argentina. August 5th to 9th, 2013.
 54. Oral presentation, “Ontología de los sistemas cuánticos abiertos”, S. Fortin, in *Workshop Internacional: Ontología de la Física. Los Desafíos Filosóficos de la Física Contemporánea*, La Plata, Argentina. May 30th to 31st, 2013.
 55. Oral presentation, “Quantum decoherence: a logical perspective”, S. Fortin and L. Vanni, in *UNILOG 2013: 4th World Congress on Universal Logic*, Río de Janeiro, Brazil. April 3^{dr} to 7th, 2013.
 56. Oral presentation, “El papel de la simetría en química cuántica”, G. Bellomo and S. Fortin, in *XVI Congreso Nacional de Filosofía*, Buenos Aires, Argentina. March 18th to 22st, 2013.
 57. Oral presentation, “Una perspectiva diacrónica en la estructura de la lógica cuántica”, S. Fortin and L. Vanni, in *VIII Encuentro de Filosofía e Historia de la Ciencia del Cono Sur (AFHIC)*, Santiago de Chile, Chile. October 16th to 20th, 2012.
 58. Oral presentation, “Una ontología para la mecánica cuántica desde una perspectiva estructuralista”, S. Fortin and M. Lastiri, in *VIII Encuentro de Filosofía e Historia de la Ciencia del Cono Sur (AFHIC)*, Santiago de Chile, Chile. October 16th to 20th, 2012.

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59. Oral presentation, “Non-unitary evolutions and non hermitian hamiltonians in decoherence of closed systems”, M. Castagnino and S. Fortin, in *PHHQP XI: Non-Hermitian Operators in Quantum Physics*, Paris, France. August 27th to 31st, 2012.
 60. Oral presentation, “Las múltiples ontologías de las ciencias físico-químicas”, M. Córdoba and S. Fortin, in *X International Ontology Congress*, San Sebastián y Barcelona, Spain. October 1st to 9th, 2012.
 61. Oral presentation, “Symmetry and observability”, S. Fortin and O. Lombardi, in *International Society for the Philosophy of Chemistry (ISPC) Summer Symposium 2012*, Leuven, Bélgica. August 7th to 10th, 2012.
 62. Poster Presentation, “Un límite clásico-cuántico para los sistemas abiertos”, G. Bellomo and S. Fortin, in *97^a Reunión Nacional de la Asociación Física Argentina*, Villa Carlos Paz, Córdoba, Argentina. September 25th to 28rd, 2012.
 63. Oral presentation, “La estructura de la lógica cuántica en un álgebra de conjuntos”, S. Fortin and L. Vanni, in *Segundo Congreso de la Asociación Latinoamericana de Filosofía Analítica*, Buenos Aires, Argentina. August 21st to 24th, 2012.
 64. Oral presentation, “Pérdida de unitariedad en sistemas cerrados”, S. Fortin, *II Jornadas de Fundamentos de Cuántica*, La Plata, Buenos Aires, Argentina. November 15th to 16th, 2012.
 65. Oral presentation, “Una descripción de la apariencia del mundo clásico sin apelar a límites reductivos”, G. Bellomo and S. Fortin, *XXIII Jornadas de Epistemología e Historia de la Ciencia*, La Falda, Córdoba, Argentina. November 12th to 14th, 2012.
 66. Poster Presentation, “Un límite clásico-cuántico para los sistemas abiertos”, G. Bellomo and S. Fortin, *97^o Reunión Nacional de Física AFA*, Villa Carlos Paz, Córdoba, Argentina. September 25th to 28th, 2012.
 67. Poster Presentation, “Decoherencia en cadenas de espines”, D. Bendersky y S. Fortin, *1st Joint Meeting of AFA-SUF*, Montevideo, Uruguay, September 20th to 23rd, 2011.
 68. Oral presentation, “The conceptual meaning of reduced states: decoherence and interpretation”, S. Ardenghi, S. Fortin and O. Lombardi presented, *14th Congress CLMPS*, Nancy, France. July 19th to 26th, 2011.

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69. Oral presentation, “Non-unitary evolutions and non-hermitian hamiltonians in decoherence and equilibrium theory”, M. Castagnino and S. Fortin, *International Seminar and Workshop: Quantum Physics with Non-Hermitian Operators*, Dresden, Germany, June 13th to 26th, 2011.
 70. Poster Presentation “The moving preferred basis in open systems”, M. Castagnino and S. Fortin, *International Seminar and Workshop: Quantum Physics with Non-Hermitian Operators*, Dresden, Germany, June 13th to 26th, 2011.
 71. Poster Presentation “Defining the moving preferred basis”, M. Castagnino and S. Fortin, *Workshop on New Trends in Quantum Dynamics and Entanglement*, Miramare, Trieste, Italy, February 21st to 25th, 2011.
 72. Oral presentation, “Los sistemas abiertos desde el punto de vista del sistema cerrado: una perspectiva conveniente”, S. Fortin, *I Jornadas de Fundamentos de Cuántica*, Buenos Aires, Argentina. December 7th, 2011.
 73. Oral presentation, “El problema de la definición de la base privilegiada móvil y una posible solución”, M. Castagnino and S. Fortin, *XXII Jornadas de Epistemología e Historia de la Ciencia*, La Falda, Córdoba, Argentina. October 27th to 29th, 2011.
 74. Oral presentation, “Decoherencia y circularidad: Una ¿posible? Interpretación hermenéutica en filosofía de la física”, M. Córdoba and S. Fortin, *XV Congreso Nacional de Filosofía*, Buenos Aires, Argentina. December 6th to 10th, 2010.
 75. Oral presentation, “Compatibility between environment-induced decoherence and the modal-Hamiltonian interpretation of quantum mechanics”, O. Lombardi, S. Ardenghi, S. Fortin and M. Castagnino, *Philosophy of Science Meeting*, Montreal, Canadá, November 4th to 6th, 2010.
 76. Oral presentation, “Un enfoque de valores medios para sistemas cuánticos abiertos (y cerrados)”, M. Castagnino and S. Fortin, Symposium “Cuestiones cuánticas” in *III Congreso Iberoamericano de Filosofía de la Ciencia y de la Tecnología*, Buenos Aires, Argentina. September 6th to 9th, 2010.
 77. Poster Presentation, “Un enfoque basado en valores medios para la decoherencia”, M. Córdoba and S. Fortin, *95th National Meeting of Physics AFA*, Malargüe, Mendoza, Argentina, September 28th to 1st October, 2010.
 78. Poster Presentation, “La interpretación modal-hamiltoniana de la mecánica cuántica”, J. Ardenghi, D. Bendersky, E. Bernatene, M. Córdoba, S. Fortin, M. Lastiri, M. Narvaja and L.

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- Vanni, *95th National Meeting of Physics AFA*, Malargüe, Mendoza, Argentina, September 28th to 1st October, 2010.
79. Poster Presentation, “Una aplicación específica de la versión “polar” de la decoherencia”, D. Bendersky and S. Fortin, *95th National Meeting of Physics AFA*, Malargüe, Mendoza, Argentina, September 28th to 1st October, 2010.
80. Poster Presentation, “Una conjetura sobre la naturaleza del espacio en mecánica cuántica”, S. Fortin, M. Lastiri and M. Narvaja, *95th National Meeting of Physics AFA*, Malargüe, Mendoza, Argentina, September 28th to 1st October, 2010.
81. Poster Presentation, “Una perspectiva pluralista para el problema del realismo en física”, M. Córdoba and S. Fortin, *95th National Meeting of Physics AFA*, Malargüe, Mendoza, Argentina, September 28th to 1st October, 2010.
82. Oral presentation, “¿Cómo se distingue el sistema que decohere de su entorno?”, M. Castagnino and S. Fortin, *VII Meeting AFHIC*, Canela, Brazil, May 3rd to 6th, 2010.
83. Oral presentation, “The modal-Hamiltonian interpretation of quantum mechanics: facing the interpretive problems of the theory”, S. Ardenghi, S. Fortin, M. Narvaja and O. Lombardi, *Quantum Gravity and the Foundations of Physics: A conference in honor of Prof. Mario A. Castagnino*, Rosario, Argentina, March 17th to 19th, 2010.
84. Oral presentation, “The problem of identifying the system and the environment in the phenomenon of decoherence”, M. Castagnino, S. Fortin and O. Lombardi, *Second Conference of the European Philosophy of Science Association EPSA09*, Amsterdam, October 21st to 24th, 2009.
85. Poster Presentation, “Aspectos formales del Esquema General de la Decoherencia”, S. Fortin, *94th National Meeting of Physics AFA*, Rosario, Argentina, September 14th to 18th, 2009.
86. Oral presentation, “El esquema general de la decoherencia como punto de partida para un enfoque basado en valores medios”, M. Castagnino and S. Fortin en las *XX XX Jornadas de Epistemología e Historia de la Ciencia*, La Falda, Argentina, November 25th to 28th, 2009.
87. Poster Presentation, “La generalización de un ejemplo típico de la decoherencia cuántica”, S. Fortin, *1st Joint Meeting of AFA-SUF*, Buenos Aires, Argentina, September 15th to 19th, 2008.

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88. Oral presentation, “Una discusión introductoria en torno a la existencia de un espacio-tiempo absoluto o relacional en el marco teórico de la Relatividad General”, C. Bejarano, S. Fortin and F. Holik. *VI Meeting AFHIC*, Montevideo, Uruguay, May 27th to 30th, 2008.
 89. Oral presentation, “Sobre un punto de vista heurístico concerniente a la naturaleza del espacio en mecánica cuántica”, S. Fortin, M. Narvaja and M. Lastiri en las *XIX Jornadas de Epistemología e Historia de la Ciencia*, La Falda, Argentina, October 29th to November 1st, 2008.
 90. Oral presentation, “¿Qué tienen que ver un balde rotante y un campo relativista?”, C. Bejarano, S. Fortin and F. Holik, *XVIII Jornadas de Epistemología e Historia de la Ciencia*, La Falda, Argentina, October 25th to 27th, 2007.
 91. Participation in the *Fourth Argentine Championship Robot Soccer* representing the team of the University of Buenos Aires, Universidad Abierta Interamericana, Buenos Aires, Argentina. July 2006.
 92. Oral presentation, “Colaboración Ítalo-Argentina para el estudio de celdas solares basadas en materiales III-V”, J. Pla, M. Barrera, M. Bosi, C. Pelosi, G. Attolini, F. Rubinelli, S. Fortin and M.G. Martinez Bogado, *XXIX Workshop of the Argentine Association for Renewable Energy and Environment (ASADES)*, Buenos Aires, Argentina, October 23rd to 27th, 2006.
 93. *IV Campeonato Argentino de Fútbol de Robots* representing the team at the University of Buenos Aires, Universidad Abierta Interamericana, Buenos Aires, Argentina. July 2006.
 94. Oral presentation, “Un diseño simple orientado a objetos de un equipo de fútbol de robots”, A. Martínez, D. Park, J. Burella, G. Viscuso, F. Holik and S. Fortin, in *III Workshop en Inteligencia Artificial aplicada a Robótica Móvil*, Universidad Abierta Interamericana, Buenos Aires. July 2006.
 95. Oral presentation, “Respuesta espectral de celdas solares multijuntura para aplicaciones espaciales: diseño del equipo y primeras mediciones”, S. Fortin, M. G. Bogado Martinez, J. Plá, *XXVIII Workshop of the Argentine Association for Renewable Energy and Environment (ASADES)*, San Martin de los Andes, Argentina, November 2nd to 4th, 2005.
 96. Poster presentation, “Medición de la respuesta espectral de celdas solares multijuntura para aplicaciones espaciales”, S. Fortin, M. G. Bogado Martinez, J. Plá, *90th National Meeting of the Asociación Física Argentina (AFA)*, La Plata, Argentina, September 26th to 29th, 2005.

Participation in scientific meetings as organizer

1. Member of the Organizing Committee of the *International Workshop: Identity, indistinguishability and non-locality in quantum physics*, Academia Nacional de Ciencias Exactas, Físicas y Naturales, Buenos Aires, Argentina. June 26th to 30th, 2017.
<http://www.filoexactas.exactas.uba.ar/project-ontology/workshop.html>
2. Member of the Organizing Committee of the *VI Jornadas de Fundamentos de Cuántica*, Facultad de Matemática, Astronomía, Física y Computación, Córdoba, Argentina. November 29th to December 1st, 2017.
<https://sites.google.com/site/vijornadasfundamentoscuantica>
3. Member of the Organizing Committee of the *VI Jornadas de Fundamentos de Cuántica*, Centro Científico Tecnológico del CONICET, La Plata, Argentina. December 12th to 14th, 2016.
<http://www.ils-ceilap.com/vi-jornadas---english.html>
4. Member of the Organizing Committee of the *V Jornadas de Fundamentos de Cuántica*, Universidad Nacional de La Plata, Buenos Aires, Argentina. December 1th to 4th, 2015.
<https://sites.google.com/site/vjornadasfundamentoscuantica/>
5. Member of the Local Organizing Committee of the *International Workshop: What is Quantum Information?*, Instituto de Astronomía y Física del Espacio (IAFE), Buenos Aires, Argentina. May 18th to 22nd de Mayo de 2015.
<http://www.filoexactas.exactas.uba.ar/information2015/>
6. Member of the Local Organizing Committee of the *IV Jornadas de Fundamentos de Cuántica*, Instituto de Física de Rosario, Santa Fe, Argentina. November 27th to 29th, 2014.
<https://sites.google.com/site/ivfundamentoscuantica/>
7. President of the Local Organizing Committee of the *I Jornadas de Fundamentos de Cuántica*, Instituto de Astronomía y Física del Espacio, Buenos Aires, Argentina. December 7th, 2011.
<http://cms.iafe.uba.ar/sfortin/Jornadas-01>
8. Member of Local Organizing Committee of the *I Latin American Conference of Comets*, Argentina Association of Friends of Astronomy, Buenos Aires, Argentina. June 7th to 9th, 1996.

Participation in scientific meetings as attendant

1. Participation in the *CNCS Seminar*, Center For Nonlinear And Complex Systems, Università dell' Insubria, Como, Italy. February 28th to March 3rd, 2011.
2. Participation in the *CCPP HEP Seminar*, Center for Cosmology and Particle Physics, New York University, New York, USA. October 25th to 29th, 2010.
3. Participation in the workshop *Low Dimensional Condensed Matter*, Department of Physics, University of Buenos Aires, Buenos Aires, Argentina, July 19th to 23rd, 2010.
4. Participation in the *Third workshop on Quantum Chaos: Theory and Applications*, Atomic Center, Buenos Aires, Argentina, December 1st to 4th, 2009.
5. Participation in the workshop *Physics and the computers of the future* at the Department of Physics of the University of Buenos Aires, Buenos Aires, Argentina, 30th July to 3rd August, 2007.
6. Participation in the workshop *Trends in Theoretical Physics IV*, Centre for Physics and Mathematics of South America, Buenos Aires, Argentina, April 30th to May 5th, 2007.
7. Participation in the *Jornadas sobre Estructuras Cuánticas II*, Institute of Astronomy and Space Physics (Instituto de Astronomía y Física del Espacio, IAFE), Buenos Aires, Argentina, June 7th, 2007.
8. Participation in the *Symposium on Quantum Structures I*, Institute of Astronomy and Space Physics (Instituto de Astronomía y Física del Espacio, IAFE), Buenos Aires, Argentina, April 27th, 2007.
9. Participation in the workshop *Trends in Theoretical Physics III*, Centre for Physics and Mathematics of South America, Buenos Aires, Argentina, May 1st to 5th, 2010.
10. Participation as an assistant at the "Seminar on Tuesday 2006" of the Quantum Structures group of the Institute of Astronomy and Space Physics (Instituto de Astronomía y Física del Espacio) in 2006.
11. Participation in the *Third Workshop on Artificial Intelligence Applied to Mobile Robotics*, Universidad Abierta Interamericana, Buenos Aires, Argentina, July, 2006.
12. Participation in the Carlos Alchourrón Seminar at the Argentine Scientific Society, 2007.

1. Doctoral thesis on philosophy and history of science Supervisor, Student Name: Roberto Pautasso, Title: El estatuto ontológico del objeto en el experimento de las dos rendijas [The ontological status of the object in the two-slit experiment], University of Tres de Febrero. October 13rd, 2015.
2. Doctoral thesis on philosophy and history of science Supervisor, Student Name: Paula Iturbide, Title: Reducción, emergencia y pluralismo ontológico en mecánica cuántica [Reduction, emergency and ontological pluralism in quantum mechanics], University of Tres de Febrero.
3. Doctoral thesis on philosophy Co- Supervisor, Student Name: Cristian López, University of Buenos Aires. Title: “Una reconstrucción informacional de la flecha del tiempo”
4. Doctoral thesis on philosophy Co- Supervisor, Student Name: Marcelo Losada, University of Buenos Aires. Title: “Mecánica cuántica: Interpretación Modal Hamiltoniana y Contextos Generalizados”
5. Doctoral thesis on philosophy Co- Supervisor, Student Name: Erick Manuel Rubio, University of Buenos Aires. Title: “Teoría de la evolución biológica y complejidad”
6. Doctoral thesis on philosophy and history of science Co- Supervisor, Student Name: Daniel Vaccaro, University of Tres de Febrero.
7. Master thesis on philosophy and history of science Co- Supervisor, Student Name: Daniel Vaccaro, Title: Las primeras investigaciones sobre fenómenos electromagnéticos: Ampère y Faraday (1820-1831) [Early research on electromagnetic phenomena: Ampère and Faraday (1820-1831)], University of Tres de Febrero. September 3rd, 2014.
8. Master thesis in physics Co- Supervisor, Student Name: Guido Bellomo, Title: Un Modelo Alternativo para la Evolución al Equilibrio (An Alternative Model for the Evolution to Equilibrium), University of Buenos Aires. March 28th, 2013.
9. CIN UBA’s Grant Co-dirección, Student Name: Guido Bellomo, 2012-2013.

Evaluation activities

Refereeing

1. Referí in the journal *Metatheoria – Revista de Filosofía e Historia de la Ciencia*, 2017.
2. Referee in the journal *Foundations of Science*, Springer, 2016.
3. Referee in the journal *Annals of Physics*, Elsevier, 2016.
4. Referee in the selection of works of VII *Encuentro de la Asociación de Filosofía e Historia de la Ciencia del Cono Sur (AFHIC)*. Año 2015.
5. Referee in the journal *Foundation of Physics*, Springer, 2015.
6. Referee in the journal *Annals of Physics*, Elsevier, 2014.
7. Referee in the journal *Foundation of Physics*, Springer, 2013.
8. Referee in the journal *Annals of Physics*, Elsevier, 2013.
9. Referee in the journal *Theoria, Revista de Teoría, Historia y Fundamentos de la Ciencia*, Editorial de la Universidad del País Vasco, San Sebastián, Spain, 2013.
10. Referee in the journal *Physics Essays, an International Journal dedicated to Fundamental Questions in Physics*, American Institute of Physics, 2013
11. Referí in the journal *Revista Multiciencias*, Universidad del Zulia, Venezuela, 2013.
12. Referí in the journal *Metatheoria – Revista de Filosofía e Historia de la Ciencia*, 2012.
13. Referí in the journal *Revista Colombiana de Filosofía de la Ciencia – Revista de Filosofía de la Ciencia*, 2012.

Thesis jury member

1. PhD thesis jury member on on philosophy and history of science, University of Tres de Febrero, Juan Camilo Martinez Gonzalez, may 23rd, 2016.
2. Master thesis jury member on on philosophy and history of science, University of Tres de Febrero, Camilo Gonzalez, april 26th, 2014.

Evaluation of research projects

1. Evaluation of research proyect PICT-2017 for the Agencia Nacional de Promoción Científica y Técnica (ANPCyT), Argentina.
2. Evaluation of research proyect PICT-2016 for the Agencia Nacional de Promoción Científica y Técnica (ANPCyT), Argentina.
3. Evaluation of research proyect PICT-2015 for the Agencia Nacional de Promoción Científica y Técnica (ANPCyT), Argentina.

Evaluation of grants

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1. Evaluación of applications to Becas de Estímulo a las Vocaciones Científicas (EVC), of the 2017 call for Centro Interuniversitario Nacional (CIN).

Invitations

1. Invited lecture in the *Leuven-Buenos Aires workshop on Philosophy of Physics* organized by KU Leuven, Lovaina, Belgica. Where I dictate the conference “Invariances in the interpretation of quantum mechanics”, July 26th, 2016.
2. Invitation to talk in the *13th Annual New Directions in the Foundations of Physics Conference*, organized by the Foundations of Physics Group de la University of Maryland, la Johns Hopkins University y la Georgetown University, Washington DC, April 18th to 20th, 2014.
3. Invitation to participate in the *International Workshop for Quantum Physics with Non-Hermitian Operators* in the *Max Planck Institute for the Physics of Complex Systems* where I dictate the conference “Non-Hermitian Hamiltonians in decoherence and equilibrium theory”. Dresden, Germany. June 14th to 20th, 2011.
4. Invitation for academic exchange in the *Laboratorio Nacional de Investigación y Servicios de Resonancia Magnética en Sólidos (LaNAIS)*, *Facultad de Matemática, Astronomía y Física Universidad Nacional de Córdoba (FaMAF)*, Córdoba, Argentina. In the group of Dr. Horacio M. Pastawski. April 6th to 9th, 2011.
5. Invited lecture in the *Seminario de Física* of the *Facultad de Matemática, Astronomía y Física Universidad Nacional de Córdoba (FaMAF)*. Where I dictate the conference “Una propuesta de solución a los problemas del enfoque ortodoxo de la decoherencia: El esquema general”, April 4th, 2011.
6. Invitation to participate in the *Workshop on New Trends in Quantum Dynamics and Quantum Entanglement*, *Abdus Salam International Centre for Theoretical Physics* where I present the work “Defining the moving preferred basis”. Miramare, Trieste, Italy. February 20th to 26th, 2011.

Participation in research projects

1. Responsible member of the three-year research project “Applying a pluralistic realism to the problems of particular philosophies of sciences: physics, chemistry, biology” (PICT-2014-2812), funded by Agency Science and Technology Promotion, Fund for Scientific and Technological Research (FONCyT). Project Director: Dra. Olimpia Lombardi. Amount awarded: AR\$300,000. Period: 2015-2018.
2. Co-Director of the three-year research project “A modal interpretation for the quantum ontology”, funded by the John Templeton Foundation. Project Director: Dra. Olimpia Lombardi, Project Co-director: Sebastian Fortin, Amount awarded: USD 198.934. Period: 2015-2018.
3. Co-Director of the three-year research project “Towards a better understanding of the foundations of quantum mechanics: Chaos, Stories and Interpretation” (UBACyT 20020100100080), funded by the Ministry of Science and Technology, University of Buenos Aires. Project Director: Dr. Mario Castagnino. Amount awarded: AR\$38,400. Period: 2014-2017.
4. Member of the two-year research project “The nature of information for an informational reformulation of the modal-Hamiltonian interpretation of quantum mechanics funded by the *Foundational Questions Institute* (FQXi). Project Director: Dra. Olimpia Lombardi. Amount awarded: USD 120.843. Period: 2013-2016.
5. Member of the three-year research project “The application of a pluralistic realism problems philosophies of the special sciences” (PIP 112-201 101 - 00303), funded by the National Council for Scientific and Technical Research (CONICET). Project Director: Dra. Olimpia Lombardi. Amount awarded: AR\$90,000. Period: 2012-2014.
6. Member of the three-year research project “Intertheoretical and Interdisciplinary Relations from the Perspective of a Plural Realism” (PIP 11220080100597), funded by the National Council for Scientific and Technical Research (CONICET). Project Director: Dra. Olimpia Lombardi. Amount awarded: AR\$70,200. Period: 2010-2012.
7. Member of the three-year research project “Philosophical Problems in the interpretation of quantum mechanics and its relation to molecular chemistry” (PICT 1432), funded by Agency Science and Technology Promotion, Fund for Scientific and Technological Research (FONCyT). Project Director: Dr. Mario Castagnino. Amount awarded: AR\$200,000. Period: 2011-2013

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8. Member of the three-year research project “Towards a better understanding of decoherence and a new interpretation of quantum mechanics and quantum field theory” (UBACyT 20020100100080), funded by the Ministry of Science and Technology, University of Buenos Aires. Project Director: Dr. Mario Castagnino. Amount awarded: AR\$40,500. Period: 2011-2014.
 9. Member of the three-year research project “Foundations of Relativistic Quantum Theory and Gravitation” (PIP 11220090100594), funded by the National Council for Scientific and Technical Research (CONICET). Project Director: Dr. Mario Castagnino. Amount awarded: AR\$36,000. Period: 2010-2012.
 10. Member of the three-year research project “Two Problems in the Foundations of Theoretical Physics: Irreversibility and Interpretation of Quantum Mechanics” (UBACyT X-041), funded by the Ministry of Science and Technology, University of Buenos Aires. Project Director: Dr. Mario Castagnino. Amount awarded: AR\$27,000. Período: 2008-2010.
 11. Member of the three-year research project “Philosophical Issues in the Foundations of Theoretical Physics” (PICT 549), funded by Agency Science and Technology Promotion, Fund for Scientific and Technological Research (FONCyT). Project Director: Dr. Mario Castagnino. Amount awarded: AR\$209,998. Period: 2008-2010.
 12. Member of the three-year research project “Logic and Ontological Problems of Foundations of Theoretical Physics” (PICT 17687), funded by Agency Science and Technology Promotion, Fund for Scientific and Technological Research (FONCyT). Project Director: Dr. Mario Castagnino. Amount awarded: AR\$163,125. Period: 2005-2007.

Scientific courses

Specialization courses

1. “General and Inorganic Chemistry II”, Department of Inorganic Chemistry, Analytical and Physical Chemistry of the Faculty of Exact and Natural Sciences, University of Buenos Aires, Buenos Aires, Argentina, 2017.
2. “General and Inorganic Chemistry I”, Department of Inorganic Chemistry, Analytical and Physical Chemistry of the Faculty of Exact and Natural Sciences, University of Buenos Aires, Buenos Aires, Argentina, 2016.

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3. “UNILOG 2013: 4th School on Universal Logic” organized by *Association for Symbolic Logic (ASL)* in Río de Janeiro, Brazil. March 29th to April 02nd, 2013.
 4. *School on New Trends in Quantum Dynamics and Quantum Entanglement*, Abdus Salam Internacional Centre for Theoretical Physics, Miramare, Trieste, Italy. February 14th to 18th, 2011.
 5. “XII Giambiagi Winter School”, Department of Physics, University of Buenos Aires, Buenos Aires, Argentina, July 19th to 23rd, 2010.
 6. “Topics in quantum mechanics” taught by Dr. Mario Castagnino at the University of Buenos Aires, Buenos Aires, Argentina, August 21st to December 7th, 2007.
 7. “Ninth J. J. Giambiagi Winter School”, Department of Physics, University of Buenos Aires, Buenos Aires, Argentina, July 30th to August 3rd, 2007.
 8. “Theory of quasi-sets and indistinguishable particles” taught by Dr. Decio Krause of the University of Santa Catarina, Brazil, in the Scientific Society Argentina, Buenos Aires, Argentina, May 30th, 31st, June 1st, 4th and 5th, 2007.
 9. “Gauge Field Theory” taught by Dr. Diego Mazzitelli at the University of Buenos Aires, Buenos Aires, Argentina, April 1st to July 6th, 2007.
 10. “General Relativity” taught by Dr. Diego Mazzitelli at the University of Buenos Aires, Buenos Aires, Argentina, April 1st to July 6th, 2005.
 11. “Special Mathematical Physics”, taught by Dr. Graciela Gnani at the University of Buenos Aires, Buenos Aires, Argentina, August 21st to December 7th, 2004.

The courses I took for the PhD in physics are:

1. “Cosmology” taught by Dr. Esteban Calzetta at the University of Buenos Aires, Buenos Aires, Argentina, March 16th to July 4th, 2009. Approved final test.
2. “Advanced Topics in Thermodynamics and Statistical Mechanics” taught by Dr. Esteban Calzetta at the University of Buenos Aires, Buenos Aires, March 16th to July 4th, 2010. Approved final test.
3. “Introduction to Field Theory” taught by Dr. Gustavo Lozano at the University of Buenos Aires, Buenos Aires, Argentina, August 21st to December 7th, 2005. Approved final test.
4. “Nonlinear Dynamics” taught by Dr. Bernardo Mindlin at the University of Buenos Aires, Buenos Aires, Argentina, March 16th to July 14th, 2009. Approved final test.

The courses I took for the PhD on philosophy and history of science are:

1. “General Epistemology III” taught by Dr. Antonio Castorina in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2010. Approved final test.
2. “History of Science III” taught by Dr. Cesar Lorenzano in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2010. Approved final test.
3. “Semantic Conceptions of Science” taught by Dr. Pablo Lorenzano in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2010. Approved final test.
4. “History of Science II” taught by Dr. Pablo Lorenzano in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2010. Approved final test.
5. “Epistemology of the Social Sciences” taught by Dr. Félix Schuster in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2010. Approved final test.
6. “Thesis Seminar” taught by Dr. Cesar Lorenzano in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2010.
7. “General Epistemology II” taught by Dr. Eduardo Scarano in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2009. Approved final test.
8. “History of Science I” taught by Dr. Daniel Di Liscia in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2009. Approved final test.
9. “General Epistemology I” taught by Dr. Cesar Lorenzano in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2009. Approved final test.
10. “Science and Society” taught by Dr. Ricardo Gómez in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2009. Approved final test.

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11. "Introduction to historical research" taught by Dr. Gustavo Castagnola in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2009. Approved final test.
 12. "Elements of logic, informal logic and set theory" taught by Dr. Gladis Palau in the Department of Social Sciences University National University of Tres de Febrero, Buenos Aires, Argentina, 2009. Approved final test.

Teaching selections won

- Selection of "Head of Teaching Assistants 2014", Department of Physics, Faculty of Natural Sciences, University of Buenos Aires, October 23rd 2014. Position 3 of 24.
- Selection of "1st class Teaching Assistant 2014", Department of Physics, Faculty of Natural Sciences, University of Buenos Aires, November 10th 2011. Position 2 of 54.
- Selection of "Head of Teaching Assistants 2011", Department of Physics, Faculty of Natural Sciences, University of Buenos Aires, December 5th 2011. Position 4 of 48.
- Selection of "1st class Teaching Assistant 2011", Department of Physics, Faculty of Natural Sciences, University of Buenos Aires, November 7th 2011. Position 2 of 79.
- Selection of "1st class Lab. Teaching Assistant 2011", Department of Physics, Faculty of Natural Sciences, University of Buenos Aires, November 11th 2011. Position 3 of 18.
- Selection of "1st class Teaching Assistant 2008", Department of Physics, Faculty of Natural Sciences, University of Buenos Aires, November 28th 2008. Position 3 of 15.
- Selection of "2nd class Teaching Assistant 2007", Department of Physics, Faculty of Natural Sciences, University of Buenos Aires, December 07th 2007. Position 19 of 146.
- Selection of "2nd class Teaching Assistant 2006", Department of Physics, Faculty of Natural Sciences, University of Buenos Aires, November 30th 2006. Position 43 of 138.

Teaching activities

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- Head of Teaching Assistants in the Faculty of Natural Sciences, University of Buenos Aires, March 1st 2015 to February 29th 2018.
 - Professor of the postgraduate course “Problemas filosóficos de las ciencias particulares: física, química, biología y ciencias formales”, National University of Quilmes. September 2017.
 - Professor of the postgraduate course “Aspectos fundamentales de la Física Cuántica”, National University of La Plata. December 2016.
 - Professor of the postgraduate course “Seminar on philosophy of science”, National University of La Plata. September 2015.
 - Professor of the postgraduate course “Philosophical issues in the interpretation of quantum mechanics”, National University of La Plata. March 2013.
 - Professor of the postgraduate course “The time in psychoanalysis, between repetition and surprise”, José M. Penna Hospital. April 10th, 2013.
 - Professor of the postgraduate course “Introducción a la Filosofía de las Ciencias”, National University of La Plata. May - June 2012.
 - Head of Teaching Assistants in the Faculty of Natural Sciences, University of Buenos Aires, March 1st 2012 to February 29th 2015.
 - *1st* class Teaching Assistant in the Faculty of Natural Sciences, University of Buenos Aires, March 1st 2012 to February 29th 2015.
 - Head of Teaching Assistants in the Faculty of Natural Sciences, University of Buenos Aires, August 23rd 2011 to February 29th 2012.
 - *1st* class Lab. Teaching Assistant in the Faculty of Natural Sciences, University of Buenos Aires, March 1st 2009 to February 29th 2012.
 - *2nd* class Teaching Assistant in the Faculty of Natural Sciences, University of Buenos Aires, March 1st 2008 to February 29th 2009.
 - *2nd* class Teaching Assistant in the Faculty of Natural Sciences, University of Buenos Aires, March 1st 2007 to February 29th 2008.

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- 2nd class Teaching Assistant in the Faculty of Natural Sciences, University of Buenos Aires, February 1st 2006 to April 29th 2006.
 - Instructor of telephone exchanges courses in ERICNET SA and Enterprise Solutions in 2000 and 2004.

Scientific talks

- “One proposed solution to the problems of the orthodox approach to decoherence: The general framework”, colloquium presentation at University of Córdoba, April 4th, 2011.
- “The role of the poles in the decoherence”, colloquium presentation, Group of Foundations of Physics Institute of Astronomy and Space Physics (IAFE, Instituto de Astronomía y Física del Espacio), 2010.
- “Modal interpretations of quantum mechanics”, symposium presentation, September 2nd, 3rd and 4th, 2009, Argentine Society of Philosophical Analysis (SADAF).
- “The relative nature of decoherence”, colloquium presentation, Group of Foundations of Physics Institute of Astronomy and Space Physics (IAFE, Instituto de Astronomía y Física del Espacio), 2009.
- “A generalization for the spin-bath model”, colloquium presentation, Group of Foundations of Physics Institute of Astronomy and Space Physics (IAFE, Instituto de Astronomía y Física del Espacio), 2008.
- “Topology and differential geometry applied to physics”, symposium presentation, Institute of Astronomy and Space Physics (IAFE, Instituto de Astronomía y Física del Espacio), 2007.
- “David Bohm Theories”, colloquium presentation at the “Seminar of Tuesdays 2007”, Group of Quantum Structures, Institute of Astronomy and Space Physics (IAFE, Instituto de Astronomía y Física del Espacio), 2007.

Talks for general public

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1. “Quantum Mechanics for psychologists”, S. Fortin and C. López, participation at the seminar of Lic. Luis Herrera. April 15th 2016.
 2. Organization of the group CUANTICA PARA TODOS, which promotes scientific results in the area of quantum mechanics in a manner accessible to the general public.
<https://sites.google.com/site/cuanticaparatodxs/>
 3. Participation at the seminar “QPT en la Facultad de Ciencias Económicas” with the talk “Problemas ontológicos de la mecánica cuántica”, S. Fortin, performed at the Facultad de Ciencias Económicas, Universidad de Buenos Aires. April 28th 2017.
 4. Participation at the seminar “Fiesta Cuántica II” with the talk “El experiment de la doble rendija”, S. Fortin, performed at the Cultural Center La Ronda. April 15th 2017.
<https://sites.google.com/site/cuanticaparatodxs/Actividades/charlas-la-ronda---abril---2017>
 5. Participation at the seminar “Fiesta Cuántica” with the talk “Indistinguibilidad cuántica”, S. Fortin, performed at the Cultural Center La Ronda. June 13rd 2015.
<https://sites.google.com/site/cuanticaparatodxs/Actividades/13-06-2015>
 6. “Entropy for psychologists”, S. Fortin and C. López, participation at the seminar of Lic. Daniel Rubinsztein. May 9th 2015.
 7. “The contact between two incompatible worlds: Quantum Mechanics and Classical Mechanics”, S. Fortin, article published in the newsletter of the CONICET (Con Voz Propia). March 26th 2013.
<http://www.conicet.gov.ar/el-contacto-entre-dos-mundos-incompatibles-mecanica-cuantica-y-mecanica-clasica/>
 8. Artistic Presentation: Audiovisual installation themed quantum mechanics in the event “abre maza 2012” performed in Arquitecturas Imaginarias art gallery. December 14th 2012.
<http://cms.iafe.uba.ar/sfortin/qpt/det-08.htm>
 9. Participation at the seminar “The truth lives in the depths: Seminar on the foundations of quantum mechanics” performed in Meridion art gallery. December 4th to 18th 2012.
<http://cms.iafe.uba.ar/sfortin/qpt/det-07.htm>
<http://cms.iafe.uba.ar/sfortin/qpt/det-09.htm>
 10. Organization of activity “Quantum Mechanics: Revolution and art”, National University of Quilmes. November 30th 2012.
<http://cms.iafe.uba.ar/sfortin/qpt/det-06.htm>
 11. Organization of activity “QUANTUM FOR EVERYBODY: the art is gaining ground in the natural sciences” performed in Meridión art gallery. May 26th 2012.

<http://cms.iafe.uba.ar/sfortin/qpt/det-05.htm>

12. Organization of activity “QUANTUM FOR EVERYBODY: Fundamental problems of quantum mechanics”, University of Buenos Aires. December 21st 2011
<http://cms.iafe.uba.ar/sfortin/qpt/det-04.htm>
13. “Análisis del comportamiento de la resistividad en función de la temperatura”, S. Fortin, published in the website of physics for general public *Casanchi, Sitio de divulgación de Física*, 2011.
<http://casanchi.com/fis/resistividad01.htm>
14. “Efecto fotoeléctrico”, S. Fortin, published in the website of physics for general public *La web de Física*, 2011.
http://www.lawebdefisica.com/files/practicas/cuantica/efecto_fotoelectrico.pdf
15. Participation in collaborative character and poster presentation on *Feria de Estudiantes Avanzados*, IAFE, where we explain to students the different activities and research developed at the institute. November 4th 2011.
16. “Análisis del comportamiento de la resistividad en función de la temperatura”, S. Fortin, published in the website of physics for general public *Casanchi, Sitio de divulgación de Física*, 2010.
17. “Efecto fotoeléctrico”, S. Fortin, published in the website of physics for general public *La web de Física*, 2011.
http://www.lawebdefisica.com/files/practicas/cuantica/efecto_fotoelectrico.pdf
18. Creating the project *Cuántica para Todos (Quantum for everybody)* designed to spread through conferences, seminars and other research results in the field of quantum mechanics.
<http://cms.iafe.uba.ar/sfortin/qpt>
19. “Los problemas del estatus del mundo clásico en mecánica cuántica y una posible solución”, S. Fortin, divulgative talk at University of Buenos Aires, Buenos Aires, Argentina. December 6th, 2010.
20. “Un modelo termodinámico para describir las estrellas mediante la aplicación de mecánica estadística”, S. Fortin, published in the website of physics for general public *Casanchi, Sitio de divulgación de Física*, 2010.
<http://casanchi.com/ast/mestrellas02.htm>

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21. Participation in collaborative character at *La Semana de la Física 2010*, University of Buenos Aires, 2010.
 22. Participation in collaborative character at *ExpoUBA Bicentenario*, University of Buenos Aires, 2010.
 23. “Un modelo termodinámico para describir las estrellas mediante la aplicación de mecánica estadística”, S. Fortin, published in the website of physics for general public *Casanchi, Sitio de divulgación de Física*, 2010.
<http://casanchi.com/ast/mestrellas01.htm>
 24. “Medición de la respuesta espectral de Celdas Solares Multijunturas para aplicaciones espaciales”, S. Fortin, published in the website of physics for general public *Casanchi, Sitio de divulgación de Física*, 2010.
<http://casanchi.com/fis/cmultipjuntura01.htm>
 25. “Decoherencia en sistemas abiertos y cerrados”, S. Fortin, talk given in the cycle *Charlas de tesis* at the Instituto de Astronomía y Física del Espacio (Institute of Astronomy and Space Physics), Buenos Aires, Argentina. October 27th, 2009.
 26. “Estimación de la incertidumbre en una medición”, S. Fortin, published in the website of physics for general public *La web de Física*, 2009.
http://www.lawebdefisica.com/files/varios_trabajos/incertidumbre_experimental.pdf
 27. “Modelización termodinámica de las estrellas mediante la aplicación de mecánica estadística”, S. Fortin, published in the website of physics for general public *La web de Física*, 2007.
http://www.lawebdefisica.com/files/varios_trabajos/estrellas.rar
 28. “Respuesta espectral de celdas solares multijunturas para aplicaciones espaciales”, S. Fortin, published in the website of physics for general public *La web de Física*, 2006.
http://www.lawebdefisica.com/files/varios_trabajos/celdas_multijuntura.pdf
 29. “Resonancias Acústicas en una Caja”, A. Garbar and S. Fortin, published in the website of physics for general public *Física re-Creativa*, 2005.
http://www.fisicarecreativa.com/informes/infor_especial/Caja_cuadrada2k5a.pdf
 30. “Band Gap en la transmisión por cables a radiofrecuencias”, A. Garbar and S. Fortin, published in the website of physics for general public *Física re-Creativa*, 2005.
http://www.fisicarecreativa.com/informes/infor_especial/Bandgap_cable2k5.pdf

Memberships

1. International Society for the Philosophy of Chemistry. From 2012.
2. Asociación Filosófica Argentina (Philosophical Association Argentina). From 2010.
3. Asociación de Filosofía e Historia de la Ciencia del Cono Sur (AFHIC). From 2008.
4. Asociación Física Argentina (Physical Association Argentina). From 2005.

Awards

5. First place in Junior category of the *IV Argentine Championship Robot Soccer* representing the University of Buenos Aires team, Universidad Abierta Interamericana, July 2006.
6. First place in Senior category of the *IV Argentine Championship Robot Soccer* representing the University of Buenos Aires team, Universidad Abierta Interamericana, July 2006.
7. Sixth place in the *National Olympic competition of Electronics and Telecommunications*, 1997.
8. Fourth place in the *National Olympic Competition of Electronics and Telecommunications*, 1996.

Technological courses

1. "Introduction to Telecommunications", given at the training center of Ericsson company SACI.
2. "Introduction to AXE", given at the training center of Ericsson company SACI.
3. "Introduction to CMS8800", given at the training center of Ericsson company SACI.
4. "MD110, Operation and Maintenance", given at the training center of Ericsson company SACI.
5. "BP250, Operation and Maintenance", given at the training center of Ericsson company SACI.
6. "BP250 Upgrade R12", given at the training center of Ericsson company SACI.
7. "Radio Frequency Engineering 1", given at the training center of Ericnet S.A. company.
8. "Telecommunication Network Solutions", given at the training center of Ericnet S.A. company.

9. “CCNA 1: Networking Basics”, given at the Fundación Proydesa.
10. “CCNA 2: Routing Basics”, given at the Fundación Proydesa.
11. “An Introduction to Astronomy” given at the Argentina Association Friends of Astronomy.
12. “Introduction to Management Telescopes” given at the Argentina Association Friends of Astronomy.
13. “Building Telescopes” given at the Argentina Association Friends of Astronomy.
14. “Advanced Management Telescope” given at the Argentina Association Friends of Astronomy.

Experience in scientific management

- Elected member of the departmental council (CODEP) of the Department of Physics, Faculty of Natural Sciences, University of Buenos Aires. Elected with 54% of votes, 2013-2015.
- Administration of the grant UBACyT 20020100100080
- Administration of the grant UBACyT X041

Experience in business management

- Head of technical service Ericnet S.A.
- Customer service manager in Ericnet S.A.
- Executive Director in Ericnet S.A.

Experience in technology

- Welding, assembly and repair of electromedical equipment.
- Repair of electronic equipment.
- Advanced programming of telephone exchanges.
- Engineering support for digital networks.
- Laboratory testing and development of communications equipment.
- Service of Ericsson MD110 PBX.
- Engineering support for Ericsson PBX.

- Communications Support the Ministry of Health.
- Support Volkswagen communications.
- Communications Support HSBC.
- Head of service in Ericnet S.A.
- Customer service management in Ericnet S.A.
- Executive Director Ericnet S.A.
- Armed and PC repair, installation of Hardware and Soft, network configuration.
- Management of PC, office software, mathematics and communications.
- Program Private and cellular radio bases.
- Management of telephone networks and links EIM, PCM fiber, coax and satellite, creation and database management.
- Advanced Search in internet.
- Operation and maintenance of photocopiers and printers.

Languages

- Knowledge of English and technical English.
- Basic knowledge of German and Arabic.

References

- Mario Castagnino, Institute of Astronomy and Space Physics (CONICET - Instituto de Astronomía y Física del Espacio, IAFE).
- Olimpia Lombardi, CONICET – UBA.
- Roberto Laura, UNR.
- Daniel Sudarsky, UNAM.
- Juan Plá, Constituyentes Atomic Center.
- José Merlo, Ericnet S.A.
- José Giuffrida, Redmond S.A.
- Pablo Arroyo, Sony Argentina S.A.

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- Claudio D’Alessio, Damovo Argentina S.A.
 - Rodrigo Loran, Ericsson Argentina.

Extracurricular Activities

- Astronomical Observations in Argentine Association Friends of Astronomy..
- Member of robot soccer team from the University of Buenos Aires.
- Member of the group of runners (marathoners) “I want to believe”.
- Sports activity: Marathon, swimming and weight training.

Cites in internacionales journals

“Interpretation and Decoherence: A Contribution to the Debate Vassallo & Esfeld Versus Crull”, S. Fortin and O. Lombardi, *Foundations of Physics*, Volume 47, Issue 11, pp 1423-1427, 2017.

- E. M. Crull (2017), “Yes, More Decoherence: A Reply to Critics”, *Foundations of Physics* **47**: 1428–1463.

“The relationship between chemistry and physics from the perspective of Bohmian mechanics”, S. Fortin, O. Lombardi and J. C. Martinez Gonzalez, *Foundations of Chemistry*, Volume 19, Issue 1, pp 43-59, 2017.

- G. Villani, E. Ghibaudi and L. Cerruti, “The orbital: a pivotal concept in the relationship between chemistry and physics? A comment to the work by Fortin and coauthors”, *Foundations of Chemistry*, online first, 2017.

“A new application of the modal-Hamiltonian interpretation of quantum mechanics: the problem of optical isomerism”, S. Fortin, O. Lombardi and J. C. Martínez González, *Studies in History and Philosophy of Science Part B: Studies in History and Philosophy of Modern Physics*, DOI: 10.1016/j.shpsb.2017.06.008, 2017. Cited in:

- O. Lombardi and D. Dieks, “Modal Interpretations of Quantum Mechanics”, *The Stanford Encyclopedia of Philosophy (Spring 2017 Edition)*, Edward N. Zalta (ed.), URL = <<https://plato.stanford.edu/archives/spr2017/entries/qm-modal/>>.

“Interpretations of Quantum Theory in the Light of Modern Cosmology”, M. Castagnino, S. Fortin, R.

Laura y D. Sudarsky, *Foundations of Physics* 47: 1387–1422, 2017. Citado en:

- B. A. Juárez-Aubry, B. S. Kay and D. Sudarsky (2018), “Generally covariant dynamical reduction models and the Hadamard condition”, *Physical Review D* **97**, 025010.
- A. Tilloy (2016), “Mesures continues en mécanique quantique : quelques résultats et applications”, Thèse de doctorat de l'école Normale Supérieure de Paris. http://www.phys.ens.fr/~tilloy/these_finale.pdf
- T. P. Singh (2015), “Possible role of gravity in collapse of the wave-function: a brief survey of some ideas”, *Journal of Physics Conference Series* **626**: 012009.
- E. Okon and D. Sudarsky (2016), “Less Decoherence and More Coherence in Quantum Gravity, Inflationary Cosmology and Elsewhere”, *Foundations of Physics* **46**: 852–879.

“Isomerism and decoherence”, S. Fortin, O. Lombardi and J. C. Martínez González, *Foundations of Chemistry* **18**: 225–240, 2016. Cited in:

- E. Matyus (2018), “Pre-Born-Oppenheimer Molecular Structure Theory”, arXiv:1801.05885.
- J. I. Seeman (2017), “Moving beyond insularity in the history, philosophy, and sociology of chemistry”, *Foundations of Chemistry*, <https://doi.org/10.1007/s10698-017-9290-7>.
- F. T. Ghahramani and A. Tirandaz (2017), “Perturbative treatment of quantum to classical transition in chiral molecules: dilute phase versus condensed phase”, *Journal of Physics B: Atomic, Molecular and Optical Physics* **50**: 025103.
- J. Maziero, “Computing partial traces and reduced density matrices”, *International Journal of Modern Physics C* **28**: 1750005 (2017).
- M. Córdoba and A. Zambón (2017), “How to handle nanomaterials? The re-entry of individuals into the philosophy of chemistry”, *Foundations of Chemistry*, DOI: 10.1007/s10698-017-9283-6
- J. C. Martínez González y M. Córdoba (2016), “El problema de las clases naturales en química: algunas dificultades para el microestructuralismo”, *Crítica, Revista Hispanoamericana de Filosofía* **48**: 89-116.
- O. Lombardi and D. Dieks, “Modal Interpretations of Quantum Mechanics”, *The Stanford Encyclopedia of Philosophy (Spring 2017 Edition)*, Edward N. Zalta (ed.), URL = <<https://plato.stanford.edu/archives/spr2017/entries/qm-modal/>>.

“A top-down view of the classical limit of quantum mechanics”, S. Fortin and O. Lombardi, in R. E. Kastner, J. Jeknic-Dugic and G. Jaroszkiewicz (eds.), *Quantum Structural Studies: Classical Emergence from the Quantum Level*, World Scientific Europe: London, 2016, pp. 435-468. Cited in:

- N.L. Harshman (2018), “Symmetry, Structure, and Emergent Subsystems”, arXiv:1801.08755.
- V. Allori (2016), “Primitive Ontology and the Classical World”, *Quantum Structural Studies: Classical Emergence from the Quantum Level*, World Scientific Europe: London.
- C. Baumgarten (2016), “Minkowski Spacetime and QED from Ontology of Time”, *Quantum Structural Studies: Classical Emergence from the Quantum Level*, World Scientific Europe: London.
- O. Lombardi and D. Dieks, “Modal Interpretations of Quantum Mechanics”, *The Stanford Encyclopedia of Philosophy (Spring 2017 Edition)*, Edward N. Zalta (ed.), URL = <https://plato.stanford.edu/archives/spr2017/entries/qm-modal/>.

“Deflating the deflationary view of information”, O. Lombardi, S. Fortin y C. López, *European Journal for Philosophy of Science*, Volume 6, Issue 2, pp 209-230, 2016.

- J. D. Dinneen and C. Brauner (2017), “Information-not-thing: further problems with and alternatives to the belief that information is physical”, mcgill.ca. [http://dinneen.research.mcgill.ca/papers/Dinneen 2017 - information isnt physical.pdf](http://dinneen.research.mcgill.ca/papers/Dinneen%202017%20-%20information%20isnt%20physical.pdf)
- O. Lombardi , F. Holik and L. Vanni (2016), “What is quantum information?”, *Studies in History and Philosophy of Science Part B: Studies in History and Philosophy of Modern Physics* **56**: 17–26.
- O. Lombardi , F. Holik and L. Vanni (2015), “What is Shannon information?”, *Synthese* **193**: 1983–2012.

“A semiclassical condition for chaos based on Pesin theorem”, I. Gomez, M. Losada, S. Fortin, M. Castagnino and M. Portesi, *International Journal of Theoretical Physics* **54**: 2192- 2203, 2015.

Cited in:

- I. Gomez (2017), “KS–entropy and logarithmic time scale in quantum mixing systems”, *Chaos, Solitons & Fractals* **106**: 55–161.
- I. Gomez (2017), “Lyapunov exponents and poles in a non Hermitian dynamics”, *Chaos, Solitons & Fractals* **99**: 155–161.
- I. Gomez (2017), “Notions of the ergodic hierarchy for curved statistical manifolds”, *Physica A: Statistical Mechanics and its Applications* **484**: 117-131.
- I. Gomez, M. Losada and O. Lombardi, “About the Concept of Quantum Chaos”, *Entropy* **19(5)**: 205, 2017.

- I. Gomez and M. Portesi (2017), “Ergodic statistical models: Entropic dynamics and chaos”, *AIP Conference Proceedings* **1853**: 100001.
- I. Gomez (2017), “An upper bound for the KS-entropy in quantum mixing systems”, *Chaos* **27**: 083112.
- I. Gomez (2017), “Distinguishability notion based on Wootters statistical distance: application to discrete maps”, *Chaos* **27**, 083112.

“Measurement, interpretation and information”, O. Lombardi, S. Fortin and C. López, *Entropy* **17**:7310-7330, 2015. Cited in:

- O. Lombardi and D. Dieks, “Modal Interpretations of Quantum Mechanics”, *The Stanford Encyclopedia of Philosophy (Spring 2017 Edition)*, Edward N. Zalta (ed.), URL = <https://plato.stanford.edu/archives/spr2017/entries/qm-modal/>.

“The role of symmetry in the interpretation of quantum mechanics”, O. Lombardi and S. Fortin, *Electronic Journal of Theoretical Physics* **12**: 255–272, 2015. Cited in:

- N.L. Harshman (2018), “Symmetry, Structure, and Emergent Subsystems”, arXiv:1801.08755.
- O. Lombardi and D. Dieks, “Modal Interpretations of Quantum Mechanics”, *The Stanford Encyclopedia of Philosophy (Spring 2017 Edition)*, Edward N. Zalta (ed.), URL = <https://plato.stanford.edu/archives/spr2017/entries/qm-modal/>.

“A pluralist view about information”, O. Lombardi, S. Fortin and L. Vanni, *Philosophy of Science* **82**: 1248-1259, 2015. Cited in:

- O. Lombardi and C. Lopez (2016), “The deflationary view of information reloaded: communication and manipulability”, *Archive for Preprints in Philosophy of Science*, <http://philsci-archive.pitt.edu/12549/>.
- O. Lombardi and C. Lopez (2016), “Quantum information or quantum coding?”, *Archive for Preprints in Philosophy of Science*, <http://philsci-archive.pitt.edu/id/eprint/12302>.
- M. E. Cuffaro (2017), “Reconsidering No-Go Theorems from a Practical Perspective”, *The British Journal for the Philosophy of Science*, axw038. <https://doi.org/10.1093/bjps/axw038>
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- C. Lopez y O. Lombardi (2015), “Información clásica e información cuántica: ¿dos tipos de información?”, *Scientiae Studia* **13**: 143-174.

“Quantum to classical limit of open systems”, G. Bellomo, M. Castagnino and S. Fortin, *arXiv:1206.5206*, 2015. Cited in:

- J. Hörsch (2014), “Synchronization of self-sustained quantum oscillators”, PhD thesis, Institut für Physik und Astronomie Mathematisch-Naturwissenschaftliche Fakultät. Universität Potsdam. <https://fias.uni-frankfurt.de/~hoersch/thesis.pdf>

“Partial traces in decoherence and in interpretation: What do reduced states refer to?”, S. Fortin y O. Lombardi, *Foundations of Physics* **44**: 426-446, 2014. Cited in:

- X. Dong, H.W. Chen and L. Zhou (2017), “Is monogamy of entanglement geometrical?”, *arXiv:1712.04608*.
- A. Romanelli, F. de Lima Marquezino, R. Portugal and R. Donangelo (2018), “The energy cost of quantum information losses”, *Physica A: Statistical Mechanics and its Applications*, <https://doi.org/10.1016/j.physa.2018.01.015>.
- N. Sznajderhaus (2016), “Realism and Intertheory Relationships: Interstructuralism, Closed Theories and the Quantum-Classical Limit”, PhD thesis, University of Leeds. <http://etheses.whiterose.ac.uk/id/eprint/16149>
- F. T. Ghahramani and A. Tirandaz (2017), “Perturbative treatment of quantum to classical transition in chiral molecules: dilute phase versus condensed phase”, *Journal of Physics B: Atomic, Molecular and Optical Physics* **50**: 025103.
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- Cordero, Alberto, “Philosophy of Science in Latin America”, *The Stanford Encyclopedia of Philosophy (Winter 2015 Edition)*, Edward N. Zalta (ed.), URL = <http://plato.stanford.edu/archives/win2015/entries/phil-science-latin-america/>.

“Quantum decoherence: a logical perspective”, S. Fortin y L. Vanni, *Foundations of Physics* **44**: 1258-1268, 2014. Cited in:

- C. A. Brasil and L. A. de Castro (2015), “Understanding the pointer states”, *European Journal of Physics* **36**: 065024.

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