

# Valia Allori

## Curriculum Vitae

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Associate Professor

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2017-2018 Fellow

National Humanities Center

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### **Educational Background**

- Ph. D., Philosophy, Rutgers University, October 2007 (Defense date May 16, 2007).
  - Thesis Title: "Fundamental Physical Theories: Mathematical Structures grounded on a Primitive Ontology."
  - Supervisor: Tim Maudlin (Philosophy, Rutgers).
  - Committee: Frank Arntzenius, Barry Loewer (Philosophy, Rutgers); Sheldon Goldstein (Mathematics, Physics and Philosophy, Rutgers); David Z. Albert (Philosophy, Columbia).
- Ph. D., Physics, University of Genova, Italy, December 2001.
  - Thesis Title: "Decoherence and the Classical Limit of Quantum Mechanics."
  - Supervisor: Nino Zanghi (Physics, University of Genova, Italy).
  - Committee: Detlef Dürr (Mathematics, LMU, Germany); Lodovico Lanz (Physics Department, University of Milano, Italy).
- Certificate in Scientific Communication, University of Milano, Italy, Fall 1999.
- Master, Physics *Summa cum laude*, University of Milano, Italy, March 1997.
  - Thesis Title: "Interaction of  $^{12}\text{C}$  with  $^{103}\text{Rh}$  at Energies greater than 33 MeV/nucleon."
  - Supervisor: Ettore Gadioli (Physics, University of Milano, Italy). Committee: Claudio Birattari, Roberto Bonetti (Physics, University of Milano, Italy).

## **Area of Specialization**

Philosophy of Physics, Philosophy of Science, Metaphysics.

## **Area of Competence**

Logic.

## **Professional Experience**

- Fall 2017-Spring 2018: Fellow, National Humanities Center;
- Fall 2013 - present: Associate Professor, Philosophy Department, Northern Illinois University.
- Fall 2007- Spring 2013: Assistant Professor, Philosophy Department, Northern Illinois University.
- Fall 2006-Spring 2007: Instructor, Philosophy Department, Rutgers University.
- Fall 2005-Spring 2006: Teaching Assistant, Philosophy Department, Rutgers University.

## **Research**

### **A-Publications and Other Professional Contributions**

#### **1-Books**

1. Book Contract: "Dismantling Quantum Paradoxes," Springer-Verlag.
2. "La Natura delle Cose: Introduzione ai Fondamenti e alla Filosofia della Fisica," (transl.: "The Nature of Things: Introduction to the Philosophy and the Foundation of Physics"), Carocci, Roma, Italy (2005) -- (with M. Dorato, F. Laudisa and N. Zanghì).

#### **2-Articles and Book Chapters**

##### **2a-Philosophy**

1. "A New Argument for the Nomological Interpretation of the Wave Function: The Galilean Group and the Classical Limit of Nonrelativistic Quantum Mechanics." *International Studies in the Philosophy of Science* (forthcoming).
2. "Scientific Realism and Primitive Ontology. Or: the Pessimistic Induction and the Nature of the Wave Function." *Lato Sensu* (forthcoming).
3. "Towards a Structuralist Elimination of Properties." In: J. Saatsi, S. French (eds.), *Scientific Realism and the Quantum*. Oxford University Press (forthcoming).
4. "Space, Time, and (how they) Matter: a Discussion about some Metaphysical Insights Provided by our Best Fundamental Physical Theories." In: S. Wuppuluri, Stachel, G.C. Ghirardi (eds.), *Space, Time, and Frontiers of Human Understanding*: 95-107. Springer (2016). ISBN 978-3-319-44418-5
5. "Primitive Ontology and the Classical World." In: R. Kastner, J. Jeknic-Dugic, G. Jaroszkiewicz (eds.), *Quantum Structural Studies: Classical Emergence from the*

- Quantum Level*: 175-199. World Scientific (2016). ISBN: 978-1-78634-140-2 doi: 10.1142/9781786341419\_0007
6. "Primitive Ontology in a Nutshell." *International Journal of Quantum Foundations* 1 (3): 107-122 (2015).
  7. Reply to Authors: "The Road to Maxwell's Demon," by Meir Hemmo and Orly R. Shenker. *International Studies in the Philosophy of Science* 29 (1): 94-98 (2015). doi: 10.1080/02698595.2015.1079077
  8. "Maxwell's Paradox: Classical Electrodynamics and its Time Reversal Invariance." *Analytica* 1:1-19 (2015).
  9. "Quantum Mechanics and Paradigm Shifts." *Topoi* 32 (2): 313-323 (2015). doi: 10.1007/s11245-014-9295-y
  10. "Predictions and Primitive Ontology in Quantum Foundations: A Study of Examples." *The British Journal for the Philosophy of Science* 65 (2): 323-352 (2014) — (with S. Goldstein, R. Tumulka, and N. Zanghi). doi: 10.1093/bjps/axs048
  11. "On the Metaphysics of Quantum Mechanics." In: S. Lebihan (ed.), *Precis de la Philosophie de la Physique*: 116-151. Vuibert (2013). ISBN : 978-2-311-01100-5
  12. "Primitive Ontology and the Structure of Fundamental Physical Theories." In: D. Albert, A. Ney (eds.), *The Wave Function: Essays in the Metaphysics of Quantum Mechanics*: 58-75. Oxford University Press (2013). doi:10.1093/acprof:oso/9780199790807.001.0001
  13. "Many-Worlds and Schrödinger's First Quantum Theory." *The British Journal for the Philosophy of Science* 62 (1): 1-27 (2011) — (with S. Goldstein, R. Tumulka, and N. Zanghi). doi: 10.1093/bjps/axp053
  14. "La storia del gatto che era sia vivo che morto" (transl.: "The Story of the Cat that was both Dead and Alive"). In: E. Giannetto, G. Giannini (eds.), *Da Archimede a Majorana: la fisica nel suo divenire*: 273-283. Guaraldi (2009). ASIN: B00HZLTL8Y
  15. "On the Classical Limit of Quantum Mechanics." *Foundations of Physics* 39 (1): 20-32 (2009) — (with N. Zanghi). doi: 10.1007/s10701-008-9259-4
  16. "On the Common Structure of Bohmian Mechanics and the Ghirardi-Rimini-Weber Theory." *The British Journal for the Philosophy of Science* 59 (3): 353-389 (2008) — (with S. Goldstein, R. Tumulka, and N. Zanghi). doi: 10.1093/bjps/axn012
  17. "Ontologie Quantistiche di Particelle, Campi e Lampi" (transl.: "Quantum Ontologies of Particles, Fields and Flashes"). In: V. Fano and M. Antonelli (eds.), *Strutture dello spazio tra fisica e psicologia*, Teorie e Modelli XII, III: 9-29 (2007) — (with N. Zanghi).
  18. "E' completa la descrizione della realta' fisica fornita dalla meccanica quantistica?" (transl.: "Is the Quantum-Mechanical Description of Physical Reality Complete?") *Il Protagora* 9: 163-180 (2007) — (with N. Zanghi).

19. "What is Bohmian Mechanics?" *International Journal of Theoretical Physics* 43: 1743-1755 (2004) — (with N. Zanghi). doi: 10.1023/B:IJTP.0000048817.79384.2a
20. "Seven Steps toward the Classical World." *Journal of Optics B* 4: 482–488 (2002)–(with D. Duerr, S. Goldstein, N. Zanghi). doi:10.1088/1464-4266/4/4/344

## 2b-Physics

1. "Observation of the Doppler Broad and Shift of the Gamma Lines of Residues Produced in the interaction of 400 MeV  $^{12}\text{C}$  Ions with  $^{63}\text{Cu}$ ." In: E. Norman, L. Schroeder, and G. Wozniak (eds.) *Nuclear Physics in the 21st Century: Proceedings of the International Nuclear Physics Conference*, American Institute of Physics Proc. No. 610, Berkeley (2001) — (with E. Gadioli, et al.).
2. "Excitation Functions, Angular Distributions and Recoil Range Distributions of Residues Created in Heavy-Ion Reactions." In: *Proceedings of the South African Institute of Physics National Conference*, South African Institute of Physics Proceedings (1998) — (with E. Gadioli, et al.).
3. "Low Linear Momentum and Energy Transfer Reactions in the Interaction of  $^{12}\text{C}$  with  $^{103}\text{Rh}$ ". In: *Proceedings of the 8th International Conference on Heavy Nucleon Reaction*, Paris (1998) — (with E. Gadioli, et al.).
4. "Spectra of Alpha Particles Emitted in the Interaction of  $^{12}\text{C}$  with  $^{93}\text{Nb}$ ." NAC Annual Report (1998) — (with M. Cavinato, et al.).
5. "Angular Distributions and Forward Recoil Range Distributions of the Residues Created in the Interaction of  $^{12}\text{C}$  and  $^{16}\text{O}$  ions with  $^{103}\text{Rh}$ ," *Nuclear Physics A* 641, 271-296 (1998) — (with E. Gadioli, et al.).
6. "The Interaction of  $^{12}\text{C}$  and  $^{16}\text{O}$  with  $^{103}\text{Rh}$ ." *Acta Physica Hungarica New Series: Heavy Ion Physics* (now European Physical Journal A: Hadrons & Nuclei) 7, 275-287 (1998) — (with E. Gadioli, et al.).
7. "Comprehensive Study of the Reaction of  $^{12}\text{C}$  with  $^{103}\text{Rh}$  up to 33 MeV/nucleon." *Physics Letters B* 394, 29-36 (1997) — (with E. Gadioli, et al.).
8. "Comprehensive Study of the Reaction of  $^{12}\text{C}$  with  $^{103}\text{Rh}$  up to 33 MeV/nucleon." *Physics Letters B* 394, 29-36 (1997) — (with E. Gadioli, et al.).
9. "Study of the Interaction of  $^{12}\text{C}$  and  $^{16}\text{O}$  with  $^{103}\text{Rh}$ ." NAC Annual Report (1997) — (with E. Gadioli, et al.).
10. "A Comprehensive Study of the Interaction of  $^{12}\text{C}$  with Nuclei". In: E. Gadioli (ed.), *Ricerca Scientifica ed Educazione Permanente*, Suppl. 111, 271-281, 10 (1997) — (with E. Gadioli, et al.).
11. "Comprehensive Study of the Interaction of  $^{12}\text{C}$  with  $^{103}\text{Rh}$  up to 33 MeV/nucleon." In: G. Giardina, G. Fazio, M. Lattuada (eds.) *Large Scale Collective Motion of Atomic Nuclei*. World Scientific (1996) — (with E. Gadioli, et al.).

### 3- Book Reviews

1. Book Review of "Protective Measurement and Quantum Reality," by Shan Gao (ed.). *The British Journal for Philosophy of Science Review of Books* (2017).  
<https://bjpsbooks.wordpress.com/2017/08/22/shan-gao-protective-measurement-and-quantum-reality>
2. Book Review of "The Road to Maxwell's Demon: Conceptual Foundations of Statistical Mechanics," by Meir Hemmo and Orly R. Shenker. *International Studies in the Philosophy of Science* 27 (4): 451-454 (2013).  
doi :10.1080/02698595.2013.868179
3. Book Review of "Do We Really Understand Quantum Mechanics?" by Franck Lalöe; *Notre Dame Philosophical Review* (2013).  
<http://ndpr.nd.edu/news/38495-do-we-really-understand-quantum-mechanics/>
4. Book Review of "Everywhere and Everywhen, Adventures in Physics and Philosophy," by Nick Huggett; *Notre Dame Philosophical Review* (2011).  
<http://ndpr.nd.edu/news/24577-everywhere-and-everywhen-adventures-in-physics-and-philosophy/>
5. Book Review of "Quantum Mechanics- a Philosopher's Overview," by Salvator Cannavo; *International Studies in the Philosophy of Science* 24 (3), 330-333 (2010).  
doi: 10.1080/02698595.2010.522416
6. Book review of "The Kantian legacy in the Nineteenth -Century Science," M. Friedman, and A. Nordmann (eds.); *Journal of the History of Philosophy* 47 (3), 478-479 (2009). doi: 10.1353/hph.0.0128

### 4-Papers Read at Professional Meetings (Conferences, Workshops, Invited talks)

1. "Quantum Mechanics, Time and Ontology." American Philosophical Association (APA) Pacific Division Meeting, San Diego, CA. March 28 – April 1, 2018.
2. "Determinism, Indeterminism, and the Statistical Postulate." 118th Statistical Mechanics Conference, Rutgers, New Brunswick, NJ. December 17-19, 2017.
3. "For Once, Skinny is Not Natural: The Case of the Higgs Particle." 2017 Conference of the Italian Society of Logic and Philosophy of Science (Societa' Italiana di Logica e Filosofia della Scienza, SILFS). Bologna (Italy), June 20-23, 2017.
4. "Towards a Structuralist Elimination of Properties." Rutgers Workshop on Structural Realism and Metaphysics of Science. Rutgers, New Brunswick, NJ. May 18-19 2017.
5. "Scientific Realism and the Quantum." American Philosophical Association (APA) Pacific Division Meeting, Seattle, WA. April 12-15, 2017.
6. Comments on Olin Robus' paper: "Putnam, Stein, and Space-Time: What Can Science Do for Philosophy?" American Philosophical Association Central (APA) Division Meeting, Kansas City, MO. March 1-4, 2017.

7. "Structure, Laws of Nature, and Fundamental Properties." Symposium on Radical Ontic Structural Realism. American Philosophical Association (APA) Eastern Division Meeting. Baltimore, MD. January 4-7 2017 (invited).
8. "Scientific Realism and Primitive Ontology." Philosophy of Science Association (PSA) Meeting. Atlanta, GE. November 3-5, 2016.
9. "Laws of Nature, Fundamental Properties and Ontology." Midwest Annual Workshop in Metaphysics (MAWM). University of Nebraska-Lincoln. Lincoln, NE. October 14-15, 2016 (invited).
10. "Scientific Realism and Primitive Ontology." 2016 Conference of the Society of Philosophy of Science (Société de philosophie des science, SPS). University of Lausanne (Switzerland). June 29-July 1, 2016.
11. Comments on Jason Turner's paper: "Everettian Quantum Mechanics and Evil." Rutgers Mini-Conference on Multiverse, Theodicy, and Fine-Tuning. Rutgers University. June 10-11, 2016.
12. Comments on Hans Halvorson's paper: "A Probability Problem in the Fine-Tuning Argument." Rutgers Mini-Conference on Multiverse, Theodicy, and Fine-Tuning. Rutgers University. June 10-11, 2016.
13. "What Does Quantum Mechanics tell us about Time?" Department of Philosophy, University of Wisconsin-Milwaukee. April 10, 2015 (invited).
14. "Physical Theories and Primitive Ontology: a Primer." First iWorkshop on the Meaning of the Wave Function.  
<http://www.ijqf.org/groups-2/meaning-of-the-wave-function/>. October 20-26, 2014.
15. "The Paradox of Deterministic Probabilities." Indiana Philosophical Association Meeting. Indiana University-Purdue University, Fort Wayne, IN. October 16-17, 2014.
16. "Quantum Mechanics and Paradigm Shifts." Conference on the Metaphysics of Quantum Mechanics. Oxford University. Oxford, UK. October 2-3, 2014.
17. "Maxwell's Paradox: On the Metaphysics of Classical Electrodynamics and its Time-Reversal Invariance." 2014 Conference of the Society of Philosophy of Science (Société de philosophie des science, SPS). University of Lille 1 and University of Lille 3 (France). June 25-27, 2014.
18. "Quantum Mechanics and Paradigm Shifts." 2014 Conference of the Italian Society of Logic and Philosophy of Science (Societa' Italiana di Logica e Filosofia della Scienza, SILFS). University of Rome III, Rome, RM (Italy). June 18-20, 2014.
19. "What does Quantum Mechanics Tell us about Time?" Philosophy of Time Society Conference. Palazzo Feltrinelli, Gargnano, BS (Italy). May 11-14, 2014.
20. "What does Quantum Mechanics Tell us about Time?" Quantum Time Conference. Center for Philosophy of Science, Pittsburgh, PA. March 28-29, 2014.
21. "Quantum Mechanics and Paradigm Shifts." 9<sup>th</sup> Annual International Conference on Philosophy. Athens, Greece. May 26-29, 2014.

22. "Quantum Mechanics and Paradigm Shifts." 14<sup>th</sup> Annual Conference of the Israeli Society for History and Philosophy of Science (ISHPS). Bloomfield Science Museum, Jerusalem (Israel). December 22, 2013.
23. "Primitive Ontology and Laws of Nature." Workshop Bridging Metaphysics and Philosophy of Physics. University of Rochester. Rochester, NY. September 13-14, 2013.
24. "Pandora's Cat: The Story of the Cat that was neither dead nor alive." Sigma Xi Scientific Research Society brown bag lunch series, Northern Illinois University. Dekalb, IL. January 30, 2013.(invited)
25. "Maxwell's Paradox: On the Metaphysics of Classical Electrodynamics and its Time-Reversal Invariance." Philosophy of Science Association (PSA) Meeting, San Diego, CA. November 15-17, 2012.
26. "On the Metaphysics of Classical Electrodynamics and its Time-Reversal Invariance." Illinois Philosophical Association, Northern Illinois University, Dekalb, IL. November 18-19, 2011.
27. "Is the Classical-Quantum Transition truly an example of a Kuhnian Revolution?" Midwest Workshop in Philosophy of Science, Technology, Engineering and Mathematics (PHILOSTEM 2), Fort Wayne, IN. November 10-12, 2011.
28. "On the Metaphysics of Classical Electrodynamics and its Time-Reversal Invariance." Northwest Philosophy Conference, Lewis and Clark College, Portland, OR. November 3-5, 2011.
29. "On the Metaphysics of Classical Electrodynamics and its Time-Reversal Invariance." 27<sup>th</sup> Philosophy and History of Science Conference, Boulder, CO. September 22-25, 2011.
30. "Is Quantum Mechanics a Kuhnian Revolution?" Quantum Theory without Observers Conference, Sexten, BZ (Italy). July 24 – August 8, 2011.
31. "What does Quantum Mechanics Tell us about Time?" 2010 Conference of the Italian Society of Logic and Philosophy of Science (Societa' Italiuana di Logica e Filosofia della Scienza, SILFS), Bergamo, BG (Italy). December 15-17, 2010.
32. "Do Particles Have Free Will?" 2010 Joint Meeting of the Illinois and Indiana Philosophical Association, Eastern Illinois University, Charleston IL. November 5-6, 2010.
33. "Some Remark on Wave Function Monism." 26<sup>th</sup> Boulder Conference on the History and Philosophy of Science, Boulder, CO. October 22-24, 2010.
34. "Do Particles Have Free Will?" Central State Philosophical Association (CSPA) Meeting, Detroit, MI. September 23-25, 2010.
35. "Primitive Ontology and the Structure of Fundamental Physical Theories." What is Quantum Theory Conference, Sexten, BZ (Italy). August 2-11, 2010.
36. Comment on Alyssa Ney's paper: "Quantum Mechanics and Three-dimensional Space." Philosophical Issues in Cosmology, Quantum Theory, and Time Conference,

Rutgers Center for Philosophy and the Sciences and the Philosophy Department, New Brunswick, NJ. April 16-18, 2010.

37. "On Wave Function Monism in Spontaneous Collapse Theories." Philosophy of Physics Colloquium, Department of Philosophy, University of Illinois at Chicago, Chicago, IL. March 31, 2010. (invited)
38. Comments on Christopher Pynes' paper: "The Mistake in Monty Fall." Illinois Philosophical Association Meeting, Urbana-Champaign, IL. October 23-24, 2009.
39. Comments on Gregory Landini's paper: "Facts about the Slingshot." Central State Philosophical Association (CSPA) Meeting, Dekalb, IL. October 9-10, 2009.
40. "What does Quantum Mechanics Tell us about Time?" Iowa Philosophical Society Annual Conference, Mount Vernon, IA. October 18, 2008.
41. "Galileo and the Scientific Method." Conference on New Ideas in History and Science, Northern Illinois University, Dekalb, IL. February 6, 2009. (invited)
42. "On Wave Function Monism in Spontaneous Collapse Theories." Department of History and Philosophy of Science, Indiana University at Bloomington, Bloomington, IN. January 30, 2009. (invited)
43. Comments on Gregory Landini's paper: "Yablo's Paradox and Russellian Propositions." Central States Philosophical Association (CSPA) Meeting, St. Paul, MN. September 26-27, 2008.
44. Comment on Brad Skow's paper: "Why Does Time Pass?" Bellingham Summer Philosophy Conference, Bellingham, WA. August 3-7, 2008.
45. "What Does Quantum Physics Say about Time?" Philosophy Department, University of Macerata, Macerata, Italy. May 28, 2008. (invited)
46. Comment on Jeffrey Dunn's paper: "Counterfactual Dependence, Thermodynamics, and the Special Sciences." American Philosophical Association (APA) Central Division Meeting. Chicago, IL. April 17-20, 2008.
47. Comment on Cian Dorr's paper: "Quantum Mechanics and Space." Metaphysics and Physics Conference, Rutgers University, New Brunswick, NJ. October 26-8, 2007.
48. "Primitive Ontology and the Structure of Fundamental Physical Theories." Quantum Reality: Ontology, Probability, Relativity, New Brunswick, NJ. October 7-9, 2007.
49. "On the Common Structure of Quantum Theories without Observers." Department of Philosophy, University of Maryland, College Park, MD. March 21, 2007.
50. "Pandora's Cat: On the Common Structure of Bohmian Mechanics and the Ghirardi-Rimini-Weber Theory." Philosophy Department, St. Olaf College, Northfield, MN. February 28, 2007.
51. "Pandora's Cat: On the Common Structure of Bohmian Mechanics and the Ghirardi-Rimini-Weber Theory." Philosophy Department, Northern Illinois University, Dekalb, IL. February 1, 2007.



52. "Pandora's Cat: On the Common Structure of Bohmian Mechanics and the Ghirardi-Rimini-Weber Theory." Philosophy Department, University of Rochester, Rochester, NY. January 26, 2007.
53. "Pandora's Cat: On the Common Structure of Bohmian Mechanics and the Ghirardi-Rimini-Weber Theory." Philosophy Department, University of Iowa, Iowa City, IA. January 22, 2007.
54. "Pandora's Cat: On the Common Structure of Bohmian Mechanics and the Ghirardi-Rimini-Weber Theory." Philosophy Department, Yeshiva College, New York, NY. December 29, 2007.
55. "Pandora's Cat: On Bohmian Mechanics and the GRW Theory." XXXVI Conference of the Italian Society of History of Physics and Astronomy, Rome, RM (Italy). June 15-17, 2006.
56. "On the Importance of the Notion of Primitive Ontology." Second School on the Foundations of Physical Theories, Urbino, PU (Italy). July 5-9, 2004.
57. "Seven Steps toward the Classical World." Mysteries, Puzzles and Paradoxes in Quantum Mechanics Conference, Gargnano, BS (Italy). August 27-September 1, 2001.
58. "Decoherence and the Classical Limit of Quantum Mechanics." Quantum Structures V: International Quantum Structures Association Conference, Cesena and Cesenatico, FC (Italy). March 31-April 3, 2001.
59. "Heavy Ions Reactions at Low Energy." Centenary of the Italian Society of Physics Conference, Como, CO (Italy). June 1997.

### **B-Grants, Fellowships, and Leaves of Absence**

1. Carl and Lily Pforzheimer Foundation Fellowship at the National Humanities Center, 2017-18. Research Project: "Quantum Mechanics and its Metaphysics: Primitive Ontology, Metaphysical Neutrality, and the Role of the Wave Function in Quantum Theories."  
<http://nationalhumanitiescenter.org/nhc-names-fellows-2017-18/>
2. NIU Research and Artistry Award, 2014. Research project: "The Metaphysical Lesson of String Theory Dualities."
3. Fall 2013-Spring 2014: Sabbatical Leave. Research program: "Determinism, Statistical Explanation and Cosmology."
4. PRIN 2010-11 Grant, collaborator. Research program: "Foundational Problems at the Interface between Quantum Mechanics and Relativity."
5. CLAS NIU 2012 Research & Engaged Learning Grant.
6. NSF STS Grant, collaborator. Research program: "Philosophical Implications of the GRW Theory of Wave Function Collapse."
7. NIU Research and Artistry Award, 2009. Research project: "The Role and Nature of Probabilities in Deterministic Theories."

8. PRIN 2008 Grant, collaborator. Research program: "Foundation of Quantum Measurement."
9. NIU Research and Artistry Award, 2008. Research project: "The Many-Worlds Theory and Relativity: is this a Hoax?"
10. PRIN 2007 Grant, collaborator. Research program: "The Problem of Macro objectification in Quantum Mechanics."
11. 2-years Rutgers Graduate School Teaching Assistantship, 2005-2007.
12. Rutgers Travel Award, 2004.
13. 3-years Rutgers Graduate School Fellowship, 2002-2005.
14. 1-year Fellowship from Fondazione Fratelli Confalonieri, 1998.
15. 5-years Fellowship for outstanding students from INPGI ("Istituto Nazionale Previdenza Giornalisti Italiani," National Support Institute for Italian Journalists' Families), 1990-1995.

### **Teaching and Related Activities**

Courses taught:

Undergraduate:

- Phil 101: Introduction to Philosophy
- Phil 205: Symbolic Logic
- Phil 360: Philosophy of Science
- Phil 385: Philosophy and Science Fiction
- Phil 405: Intermediate Logic
- Phil 464: Philosophy of Physics

Graduate:

- Phil 505: Intermediate Logic
- Phil 564: Philosophy of Physics
- Phil 660A: Philosophy of Science, Survey
- Phil 691: Special Topics in Philosophy, Paradoxes

### **Professional Service**

#### ***1-Invited Talks***

Invited talks are listed as 'invited' under "Papers read at Professional Meetings."

#### ***2-Editorial Positions***

*Philosophy Compass* - Philosophy of Science Section Editor.

#### ***3-Other***

Blog Posts:

1. "Gravity and the Dark Side of Science" The Institute of Arts and Ideas, [iai.tv](https://iainews.iai.tv/articles/gravity-and-the-dark-side-of-science-auid-901).  
<https://iainews.iai.tv/articles/gravity-and-the-dark-side-of-science-auid-901>

2. "Realismo Scientifico e Meccanica Quantistica: E' la Funzione d'Onda la Radice di Tutti i Mali?" Philosophy Department Blog, University of Urbino, PU (Italy). <http://filosofia.uniurb.it/realismo-scientifico-e-meccanica-quantistica-e-la-funzione-donda-la-radice-di-tutti-i-mali/>
3. "How do Gravitational Waves Confirm General Relativity?" The Philosopher's Eye, the Wiley Blackwell philosophy blog. <https://thephilosopherseye.com/2016/03/11/philosophy-of-science-how-do-gravitational-waves-confirm-general-relativity/>

#### Interviews:

1. "Rolling Stone Magazine - Italia" (in Italian)
2. "La Soglia Oscura," in Italian (Part 1: <http://www.sogliaoscura.org/int-fisica1.html> and 2: <http://www.sogliaoscura.org/int-fisica2.html>)

#### Discussant at the following conferences:

1. 2017 Society for the Metaphysics of Science Conference. Fordham University, New York, NY. Oct 5-7, 2017.
2. 14<sup>th</sup> New Direction in the Foundations of Physics Conference, Washington DC. April 24-26, 2015.
3. "Metaphysics Meets Philosophy of Physics in Rochester." University of Rochester, Rochester, NY. September 12-13, 2014.
4. 9<sup>th</sup> New Direction in the Foundations of Physics Conference, Washington DC. April 30-May 2, 2010.
5. Quantum Mechanics and the Nature of Physical Reality Conference, Sexten (Bozen), Italy. July 22-25, 2009.
6. Philosophical Foundations of Statistical Mechanics Workshop, Rutgers University, New Brunswick, NJ. May 13-15, 2009.
7. 8<sup>th</sup> New Direction in the Foundations of Physics Conference, Washington DC. May 1-3, 2009.
8. Philosophy of Gauge Theory Workshop. University of Pittsburgh, Pittsburgh, PA. April 18-19, 2009.
9. Illinois Philosophical Association Meeting, Dekalb, IL. November 7-8, 2008.
10. 7<sup>th</sup> New Direction in the Foundations of Physics Conference, College Park, MD. April 25-27, 2008.
11. 6<sup>th</sup> New Direction in the Foundations of Physics Conference, College Park, MD. April 25-27, 2007.
12. Philosophy of Physics: Descrying the World in Physics Summer School, Central European University, Budapest (Hungary). July 3- 14, 2006.
13. 4<sup>th</sup> New Direction in the Foundations of Physics Conference, College Park, MD, April 29-May 1, 2005.

14. Descrying the World in Physics Conference, Rutgers University and Columbia University, New Brunswick, NJ and New York, NY. April 21-23, 2005.
15. Quantum Theories without Observers II Conference, Bielefeld (Germany). February 2-6, 2004.
16. ISI Foundation's Quantum Computing Euro-Workshop, Turin (Italy). February 2000.
17. Chance in Physics: Foundations and Perspectives Conference, Ischia, NA (Italy). November 29-December 3, 1999.
18. VIII National Seminar in Theoretical Physics, Parma, PA (Italy). August 30-September 10, 1999.
19. 8<sup>th</sup> International Conference on Nuclear reaction Mechanism, Varenna, CO (Italy). June 4-9, 1997.

### References:

Gordon Belot

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Craig Callender

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