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EDUCATION

1975-81: Ph.D. (Philosophy)	University of Western Ontario
1973-75: MA (Philosophy)	McGill University
1972-73: PGCE (Education)	University of Oxford
1969-72: BA (Physics)	University of Oxford

AOS: Early Modern Philosophy, esp. Leibniz, Descartes, Newton; Philosophy and Physics of Time; History of the Exact Sciences; History and Philosophy of the Infinite; History of Materialism; Thought Experiments.

AOC: Logic; Philosophy of Mathematics; History of Cosmology, Philosophy of Biology; Philosophy of the Enlightenment; Philosophy of Language.

ACADEMIC APPOINTMENTS

2018-...	Emeritus Professor, Philosophy, McMaster University, Hamilton, Ontario.
2002-18	Professor, Philosophy, McMaster University, Hamilton, Ontario.
1996-02	Professor, Philosophy, Middlebury College, Vermont.
1991-96	Associate Professor, Philosophy, Middlebury College, Vermont. Tenure granted May 1991.
1985-91	Assistant Professor, Philosophy, Middlebury College, Vermont.
1982-85	Lecturer, Applied Mathematics, University of Western Ontario (UWO), London, Canada.
1981-82	Lecturer 1 (= Assistant Professor), Dept. of Religious Studies and Philosophy, University of Calabar, Nigeria.

VISITING APPOINTMENTS AND OTHER TEACHING EXPERIENCE

2018	Senior Visiting Fellow, Department of Philosophy, Università degli Studi di Milano, Milan, Italy.
2001-02	Visiting Research Associate, Institute for the History and Philosophy of Science and Technology (IHPST), University of Toronto, Canada (on sabbatical leave from Middlebury).
1998-2010	Associated Scholar, IHPST, University of Toronto, Canada.
1998	Professore a Contratto, Dipartimento di Filosofia, Università di Bologna, Italy; (Spring Term; on Family Leave from Middlebury).
1994-95	Visiting Research Associate, IHPST, University of Toronto, Canada (on sabbatical leave from Middlebury).
1993	Visiting Professor, Philosophy, York University, Toronto, Canada (Spring Term; on Family Leave from Middlebury).
1980-81	Teaching Assistant, Dept. of Applied Mathematics, UWO.
1978-80	President, Society of Graduate Students, UWO (full time).
1975-79	Instructor, Research Assistant, Department of Philosophy, UWO.
1973-75	Teaching Assistant (for Charles Taylor), Dept. of Philosophy, McGill University, Montreal.
1973	Secondary School Teacher (1 term), Malvern College, England.
1969	Secondary School Teacher (2 terms, for Save the Children Fund), Starehe Boys' Centre, Nairobi, Kenya.

DISSERTATIONS

PhD: *Time and Temporal Becoming in the Foundations of Physics*, UWO, 1981; Thesis Supervisor: William Demopoulos.

MA: *A Disquisition on Properties*, McGill University, 1976; Thesis Supervisor: Mario Bunge.

PUBLICATIONS**BOOKS**

The Reality of Time Flow: local becoming in modern physics. (x + 281 pp.). Cham, Switzerland: Springer Verlag, *Frontiers of Science* series, May 2019.

Monads, Composition and Force: Ariadnean Threads through Leibniz's Labyrinth. Oxford: Oxford University Press, October 2018.

Reviewed in:

Leibniz Review, 28, 2018, 155-165 (by Samuel Levey).

Bulletin leibnizien, printemps 2019 (par François Duchesneau).

Revue d'histoire des sciences, Spring 2019 (by Ohad Nachtomy).

Notre Dame Philosophical Reviews, 12 April 2019 (by Ursula Goldenbaum).

Journal of the History of Philosophy, October 2019 (by Stephen Puryear).

Mind, 129 (514), 664-673, 2020 (by Julia Jorati).

An Introduction to Logic: using natural deduction, real arguments, a little history and some humour. (Second edition of Arthur 2011 with revised title). Peterborough: Broadview Press. 2017.

Leibniz. Cambridge: Polity Press, Classic Thinkers Series; August/October 2014.

Reviewed in:

Leibniz Review, 24, 2014, 123-130 (by Ohad Nachtomy);

Times Literary Supplement, No 5840, March 6, 2015: 32 (by Maria Rosa Antognazza);

Journal of Consciousness Studies 2015, 22, 3-4, 205-9 (by Jonathan Edwards);

Archives de Philosophie, cahier 2016/3, tome 79, Automne, pp. 598-600 (par Jean-Pascal Anfray).

Natural Deduction: An introduction to logic with real arguments, a little history and some humour. Peterborough: Broadview Press. May, 2011.

Reviewed: *Dialogue*, August 2014, 1-3 (by Nicolas Fillion and Bradley Zurcher).

G. W. Leibniz: The Labyrinth of the Continuum. Writings of 1672 to 1686: a selection, edition and translation of unpublished Latin manuscripts by Leibniz on the problem of the composition of the continuum, with an introductory essay; Yale Leibniz Series, edited by Robert Sleigh and Daniel Garber; New Haven: Yale University Press, 2001; paperback edition, August 2013.

Reviewed: *Leibniz Review*, 13, 2003, 155-165 (by Massimo Mugnai).

FORTHCOMING

Leibniz on Time, Space, and Relativity. (173,400 words; copy-editing in progress; to appear

with OUP, January 2022.

IN PROGRESS

Leibniz's Publications on Natural Philosophy. Editor and principal translator, with Richard Francks, Samuel Levey, Jeffrey McDonough, Lea Schroeder and Tzuchien Tho; almost complete; volume accepted for publication by OUP.

Leibniz on the Metaphysics of the Infinite; (co-authored with Osvaldo Ottaviani). Accepted for publication for the BSHP New Texts in the History of Philosophy with OUP.

Leibniz on the Foundations of the Differential Calculus; (co-authored with David Rabouin). Under consideration for inclusion by Vincenzo De Risi in his series of monographs with Birkhäuser.

Russell on Leibniz; (co-authored with Nicholas Griffin). Almost complete draft—not yet submitted to a publisher.

ARTICLES & BOOK CHAPTERS

IN PROGRESS

“Russell’s Rejection of the Relational Theory: Leibniz, Lotze, and Internal Relations”. Complete manuscript (49 pages, 19,199 words); for a chapter of *Russell on Leibniz*.

“On the Chequered Reception of A. A. Robb’s Philosophy of Time”, to appear in a special issue of BJHP guest-edited by Emily Thomas in early 2023.

IN ABEYANCE

«Jean-Marie Beyssade—une note personnelle d'appréciation», (3 pp. = 1015 words), to appear in *Un journée d'hommage à Jean-Marie Beyssade*, ed. Denis Kambuchner et Vincent Carraud, Presses Universitaires de Paris-Sorbonne, 2020?.

FORTHCOMING

“Leibniz’s metaphysics of change: vague states & physical continuity”, accepted for inclusion in the *Festschrift* volume for Massimo Mugnai, *Thinking and Calculating. Essays on Logic, its History and its Applications*, ed. Francesco Ademollo, Vincenzo De Risi, and Fabrizio Amellini. (33 pages, 11,785 words).

PUBLISHED

61. “Leibniz as a Precursor to Chaitin’s Algorithmic Information Theory”, chapter 9 (153-176) in *Information and the History of Philosophy*, ed. Chris Meyns, London: Routledge, 2021.
60. “Leibniz’s syncategorematic infinitesimals II: their existence, their use and their role in the justification of Differential Calculus” (co-authored with David Rabouin), *Archive for History of Exact Sciences*, 2020, 1-43. DOI: 10.1007/s00407-020-00249-w.
59. «États vagues, changements discontinus, et le principe de continuité chez Leibniz», pp. 44-57 in *Leibniz et leibnizianismes*, ed. Jan Makovský, Prague: Filosofický časopis (Hors-série), 2019.
58. “Leibniz in Cantor’s Paradise: A Dialogue on the Actual Infinite”, ch. 3, pp. 71-109 in

- Leibniz and the Structure of Sciences: Modern Perspectives on the History of Logic, Mathematics, Epistemology*, ed. Vincenzo De Risi, Cham, Switzerland: Springer, 2019.
57. "Mario Bunge on causality: some key insights and their Leibnizian precedents", chapter 11 (pp. 185-204) in *Mario Bunge: A Centenary Festschrift*, ed. Michael R. Matthews, Springer Verlag, 2019.
 56. "On the Non-Idealist Leibniz: A Reply to Sam Levey," pp.97–101 in *Leibniz Review*, **28**, 2018.
 55. "The Hegelian Roots of Russell's Critique of Leibniz", pp. 9-42 in *Leibniz Review*, **28**, 2018.
 54. "Leibniz's Syncategorematic Actual Infinite", pp. 155-179 in *Infinity in Early Modern Philosophy*, eds. Ohad Nachtomy and Reed Winegar, Springer Verlag, 2018.
 53. "Russell's Leibniz Notebook", co-edited with Nicholas Griffin, pp. 5-56 in *Russell: the Journal of Bertrand Russell Studies*, 37, 1, 2017.
 52. "Marginalia in Russell's Copy of Gerhardt's edition of Leibniz's *Philosophischen Schriften*", co-edited with Nicholas Griffin and Jolen Galaugher, pp. 57-142 in *Russell: the Journal of Bertrand Russell Studies*, 37, 1, 2017.
 51. "Moore's Notes on Russell's Leibniz Lectures", co-edited with Nicholas Griffin, pp. 143-192 in *Russell: the Journal of Bertrand Russell Studies*, 37, 1, 2017.
 50. "Thought Experiments in Newton and Leibniz", 111-127 in *The Routledge Companion to Thought Experiments*, ed. James Robert Brown, Yiftach Fehige, and Michael T. Stuart. Palgrave Macmillan, 2017.
 49. "Leibniz's Causal Theory of Time Revisited", *Leibniz Review*, **26**, 2016, 151-178.
 48. "Leibniz from the Perspective of Modern Science", in Japanese translation as by Dr. Shinji Ikeda, *Studia Leibnitiana Japonica*, 71-98, 2016.
 47. "Leibniz, Organic Matter and Astrobiology", 81-107 in *Tercentenary Essays on the Philosophy and Science of G. W. Leibniz*, ed. Lloyd Strickland, Erik Vynckier and Julia Weckend, Routledge, 2016.
 46. "On the Mathematization of Free Fall: Galileo, Descartes and a History of Misconstrual", 81-111 in *The Language of Nature*, volume 20 of *Minnesota Studies in Philosophy of Science*, ed. Geoffrey Gorham, Benjamin Hill, Edward Slowik and C. Kenneth Waters, 2016.
 45. "Atom", 35-38 in the *Cambridge Descartes Lexicon*, ed. Lawrence Nolan, Cambridge University Press, 2016.
 44. "Time", 717-721 in the *Cambridge Descartes Lexicon*, ed. Lawrence Nolan, Cambridge University Press, 2016.
 43. "Newton and Leibniz on the relativity of motion", in *Oxford Handbook of Newton*, ed. Chris Smeenk and Eric Schliesser, published online at (www.oxfordhandbooks.com), Oxford: Oxford University Press, 2015.
 42. "Leibniz's Actual Infinite in Relation to his Analysis of Matter", 137-156 (chapter 7) in *G. W. Leibniz: Interrelations Between Mathematics and Philosophy*, (Springer:

- Archimedes Series), ed. Norma Goethe, Philip Beeley and David Rabouin, 2015.
41. "The relativity of motion as a motivation for Leibnizian substantial forms", 143-160 (chapter 10) in *Leibniz's Metaphysics and Adoption of Substantial Forms*, ed. Adrian Nita, Springer Verlag, 2015.
 40. "Reply to Ohad Nachtomy", *Leibniz Review*, 24, 131-133, 2014.
 39. "The Labyrinth of the Continuum", in Maria Rosa Antognazza (ed.), *Oxford Handbook of Leibniz*; published online at (www.oxfordhandbooks.com), Oxford: Oxford University Press, December 2013. [6,914 words]
 38. "Leibniz's *Mechanical Principles* (c. 1676): Commentary and Translation", *Leibniz Review*, **23**, 101-116, 2013.
 37. "Massimo Mugnai and the Study of Leibniz", *Leibniz Review*, **23**, 1-5, 2013.
 36. "Leibniz's Theory of Space", *Foundations of Science*, **18**, 3 (a special edition on 17th C. space-time, ed. Karin Verelst and Maarten Van Dyck), 499-528, 2013.
 35. "Leibniz's Syncategorematic Infinitesimals, Smooth Infinitesimal Analysis, and Second Order Differentials", *Archive for History of Exact Sciences*, **67**: 553–593, April 2013.
 34. "Can thought experiments be resolved by experiment? The case of 'Aristotle's Wheel'", 107-122 in *Thought Experiments in Philosophy, Science and the Arts*, ed. Melanie Frappier, Letitia Meynell and James Robert Brown, New York and Abingdon: Routledge, 2013.
 33. "Virtual Processes and Quantum Tunnelling as Fictions", *Science & Education*, **21**, 10, 1461-1474, October 2012.
 32. "Time Atomism and Ash'arite Origins for Cartesian Occasionalism, Revisited", 73-92 in *Asia, Europe and the Emergence of Modern Science: Knowledge Crossing Boundaries*, ed. Arun Bala, New York: Palgrave Macmillan, 2012.
 31. "Presupposition, Aggregation, and Leibniz's Argument for a Plurality of Substances", *Leibniz Review*, **21**, 91-116, 2011.
 30. "Beeckman's Discrete Moments and Descartes' Disdain", *Intellectual History Review* (Special Issue on Absolute Space and Time, ed. Ed Slowik and Geoffrey Gorham), **22**, 1, 69-90, Dec. 2011.
 29. "Zeno's Paradoxes", 1012-1013 in *The Classical Tradition*, ed. Anthony Grafton, Glenn W. Most, and Salvatore Settis, Harvard University Press, 2010.
 28. "Minkowski's Proper Time and the Status of the Clock Hypothesis", 159-180 in *Space, Time and Spacetime*, ed. Vesselin Petkov, Berlin, Heidelberg: Springer, 2010.
 27. "Materialist Theories of Time", in *Chronotopologies: Hybrid Spatialities and Multiple Temporalities*, ed. Leslie Kavanaugh, Amsterdam/New York: Rodopi Press, 2010.
 26. "Actual Infinitesimals in Leibniz's Early Thought", 11-28 in *The Philosophy of the Young Leibniz, Studia Leibnitiana Sonderhefte* **35**, ed. Mark Kulstad, Mogens Laerke and David Snyder, Stuttgart: Franz Steiner, 2009.
 25. "Time Lapse and the Degeneracy of Time: Gödel, Proper Time and Becoming in Relativity Theory," 207-227 in *The Ontology of Spacetime II*, ed. Dennis Dieks,

Elsevier, 2008.

24. "Leery Bedfellows: Newton and Leibniz on the Status of Infinitesimals," 7-30 in *Infinitesimal Differences: Controversies between Leibniz and his Contemporaries*, ed. Ursula Goldenbaum and Douglas Jesseph, Berlin and New York: De Gruyter, 2008.
23. "Beeckman, Descartes and the Force of Motion", *Journal for the History of Philosophy*, **45**, no. 1, 1-28; January, 2007.
22. "Leibniz's Body Realism: Two Interpretations", with Peter Loptson, *Leibniz Review*, **16**, 1-44, December 2006.
21. "Minkowski Spacetime and the Dimensions of the Present", 129-155 in *The Ontology of Spacetime*, ed. Dennis Dieks, Elsevier, 2006.
20. "Animal Generation and Substance in Sennert and Leibniz", 304-359 in *The Problem of Animal Generation in Modern Philosophy*, ed. Justin Smith. Cambridge: Cambridge University Press, 2006.
19. "The remarkable fecundity of Leibniz's work on infinite series," *Annals of Science*, 63(2), 221-225, April 2006.
18. "Lo zenonismo come fonte delle monadi di Leibniz: una risposta a Paolo Rossi", *Rivista di storia della filosofia*, 2, 155-160, 2003.
17. "The Enigma of Leibniz's Atomism", *Oxford Studies in Early Modern Philosophy*, Volume 1, 183-227, 2003.
16. "Leibniz on Infinite Number, Infinite Wholes and the Whole World: A Reply to Gregory Brown", *Leibniz Review*, **11**, 103-116, December 2001.
15. "Infinite Number and the World Soul; in defence of Carlin and Leibniz," *Leibniz Review*, **9**, 105-116, December 1999.
14. "On thought experiments as *a priori* science," *International Studies in the Philosophy of Science*, **13**, 3, 215-229, 1999.
13. "Cohesion, Division and Harmony: Physical Aspects of Leibniz's Continuum Problem (1671-1686)," *Perspectives on Science*, **6**, nos. 1 & 2, 110-135, 1998.
12. "Infinite Aggregates and Phenomenal Wholes," *Leibniz Review*, **8**, 25-45, December 1998.
11. "Deep in Leibniz's Labyrinth" (review article of Philip Beeley's *Kontinuität und Mechanismus*), *Leibniz Society Review*, **7**, 25-42, December 1997.
10. "Newton's Fluxions and Equably Flowing Time," *Studies in History and Philosophy of Science*, **28**, no. 2, 323-351, June 1995.
9. "Space and Relativity in Newton and Leibniz," *British Journal for the Philosophy of Science* 45, 1994, 219-240. Reprinted as 61-82 in *Leibniz*, ed. Catherine Wilson, Aldershot/Burlington: Ashgate 2001.
8. "Bloomin' Confusion: Democracy and Deceit in the Great Books Debate," *The World and I*, vol. 5, no. 11, 578-594, November 1990.
7. "Foil for Newton: Howard Stein on Locke, Huygens and Newton," 49-56 in

Philosophical Perspectives on Newtonian Science, ed. R. I. G. Hughes and Phillip Bricker, Cambridge: Bradford Books, MIT Press, 1990.

6. "Russell's Conundrum: On the Relation of Leibniz's Monads to the Continuum," 171-201 in *An Intimate Relation: Studies in the History and Philosophy of Science*, ed. James Robert Brown and Jürgen Mittelstraß, Dordrecht: Kluwer Academic Publishers, 1989.
5. "Continuous Creation, Continuous Time: A Refutation of the Alleged Discontinuity of Cartesian Time," *Journal for the History of Philosophy*, vol. XXVI, no. 3, July 1988; 349-375.
4. "Leibniz's Theory of Time," 263-313 in *The Natural Philosophy of Leibniz*, ed. Kathleen Okruhlik and James R. Brown, D. Reidel: Dordrecht, 1985.
3. "Exacting a Philosophy of Becoming from Modern Physics," *Pacific Philosophical Quarterly* **63**, 2, 101-110, April 1982.
2. "The Empiricist Account of Scientific Knowledge: A Polemical Evaluation," *Poznan Studies* **3**, 2, 125-141, 1977.
1. "On Reference as a Component of Meaning in Science," *Philosophica* **18**, 2, 59-75, 1976.

CONFERENCE PROCEEDINGS

"Leibniz's Archimedean Infinitesimals," *Proceedings of the Canadian Society for History and Philosophy of Mathematics*, **21**, 1-10, 2008.

"Leibniz and Cantor on the Actual Infinite," pp. 41-46 in *Nihil sine ratione*, Vol. 1, ed. Hans Poser, Berlin: Gottfried-Willhelm-Leibniz-Gesellschaft, 2001.

"The transcendentalism of π and Leibniz's philosophy of mathematics," *Proceedings of the Canadian Society for History and Philosophy of Mathematics*, **12**, 13-19, 1999.

"Relations of Time and Space," pp. 9-16 in *Leibniz und Europa*, ed. Herbert Breger, Hanover: Gottfried-Willhelm-Leibniz-Gesellschaft, 1994.

"On the Unappreciated Novelty of Leibniz's Spatial Relationalism," pp. 26-33 in *Leibniz: Tradition und Aktualität*, ed. Albert Heinekamp, Hanover: Gottfried-Willhelm-Leibniz-Gesellschaft, 1988.

"Space as an Order of Situations", *Abstracts, LMPS '87*, Vol. 2, Moscow: Institute of the Academy of Sciences of the USSR, 21-23, August 1987.

"Leibniz on Continuity," pp. 107-115 in *PSA 1986*, Vol. 1, ed. Arthur Fine and Peter Machamer, East Lansing, 1986.

BOOK REVIEWS

Leibniz: Dissertation on Combinatorial Art. Translated with introduction and commentary by Massimo Mugnai, Han van Ruler, and Martin Wilson. Oxford University Press, 2020; for the *Leibniz Review*, **30**, 2020; pp. 143-47.

G. W. Leibniz. *The Leibniz-Stahl Controversy*. Translated, Edited, and with an Introduction by François Duchesneau and Justin E. H. Smith (Yale UP, 2016), and *The Leibniz-Arnauld*

Correspondence. With Selections from the Correspondence with Ernst, Landgrave of Hessen-Rheinfels - Text established and translated and with an Introduction by Stephen Voss (Yale UP, 2016), pp. 408-10 in *Isis*, **110**, 2, June 2019.

Varieties of Continua—From Regions to Points and Back, Geoffrey Hellman and Stewart Shapiro, *Philosophia Mathematica*, pp. 148—52, pre-published as nky023, <https://doi.org/10.1093/phimat/nky023>, 2018.

Isaac Beeckman on Matter and Motion: Mechanical Philosophy in the Making, Klaas van Berkel, The Johns Hopkins University Press, 2013) for HOPOS Spring 2014 issue (vol. 4, number 1).

Isaac Newton on Mathematical Certainty and Method, Niccolò Guicciardini (MIT Press, 2009), in *British Journal for the History of Science*, **44**, 01, March 2011, 122 - 124.

Leibniz: Body, Substance, Monad, Daniel Garber (Oxford UP, 2009), in *British Journal for the History of Philosophy*, **18**, 4, 2010, 721-724.

Newton as Philosopher, Andrew Janiak (Cambridge UP, 2007), in *Notre Dame Philosophical Reviews* (Jan 23, 2009), <http://ndpr.nd.edu/review.cfm?id=15088>.

Leibniz and the Natural World, Pauline Phemister, *Philosophical Quarterly*, **57**, 226, January 2007, 133-137.

Leibniz: Metaphilosophy and Metaphysics: 1666-1686, Andreas Blank, in *Notre Dame Philosophical Reviews* (May 6, 2006), <http://ndpr.nd.edu/review.cfm?id=6503>.

On Leibniz, Nicholas Rescher, in *Philosophy in Review* **24**, 1 (February 2004), 51-53.

What was Mechanical about Mechanics? The Concept of Force between Metaphysics and Mechanics from Newton to Lagrange, J. Christiaan Boudri (2002), in *Annals of Science* **61** (2004), 240-241.

Substance and Individuation in Leibniz, Jan Cover and John O'Leary-Hawthorne (1999), in *The Philosophical Quarterly* **51**, 205, pp. 540-542 (October 2001).

Leibniz and Clarke: A Study of their Correspondence, Ezio Vailati (1997), in *Mind* **110**, 439 (July 2001), 874-878.

Squaring the Circle: The War between Hobbes and Wallis, Douglas Jesseph (1999), in *International Studies in the Philosophy of Science* **15**, 1 (March 2001), 112-115.

Reading the Principia: The Debate on Newton's Mathematical Methods for Natural Philosophy from 1687 to 1736, Niccolò Guicciardini (1999), in *Historia Mathematica* **28** (2001), 54-57.

Reasoning with the Infinite: From the Closed World to the Mathematical Universe, Michel Blay (1998), in *Annals of Science* **57**, 102-103, 2000.

Mathematischer, Naturwissenschaftlicher und Technischer Briefwechsel/ G.W. Leibniz, vol. 4 (1683-1690), H-J Hess, James O'Hara and Herbert Breger (1995), in *Isis* (International Journal for the History of Science), 1997.

De Summa Rerum: metaphysical papers 1675-1676/ G.W. Leibniz, G. H. R. Parkinson (1992), in *Leibniz Society Review*, **2**, December 1993.

Temporal Relations and Temporal Becoming: A Defense of a Russellian Theory of Time, L.

Nathan Oaklander (1984), in *Philosophy of Science*, **54**, 1, 142-143, March 1987.

The Investigation of the Physical World, G. Toraldo di Francia (1981), in *Philosophy of Science*, **50**, 3, 516-518, September, 1983.

Quantum Mechanics, a Half Century Later, J. Leites Lopes and M. Paty (eds.) (1977), in *Philosophy of Science*, **48**, 1, 156-161, March 1981.

CONFERENCE AND WORKSHOP PAPERS PRESENTED

“Remarks on Leibniz’s ‘Towards a Science of the Infinite’”, along with Osvaldo Ottaviani, who presented “Reading Leibniz’s ‘Scientia Infiniti’: Some Preliminary Considerations”, (remotely) for the seminar on “Leibniz on Infinity: A New Edition of the *Scientia Infiniti*” at the Università degli Studi di Milano, May 14, 2021.

“On the Chequered Reception of A. A. Robb’s Philosophy of Time” (remotely) for the conference on Time at the Turn of the 20th C in Anglo-American Philosophy, Durham, April 29-30.

“Force and the Cause of Motion in Leibniz”, Princeton-Bucharest Virtual Seminar in Early Modern Philosophy, Roundtable on *Leibniz: Metaphysical Physics or Physical Metaphysics?*, October 13, 2020.

“Leibniz’s analysis of change: vague states, physical continuity, and the calculus”, Mexico-Canada Early Modern (Virtual) Conference, Western University, October 2, 2020.

“Einstein’s Tacit Use of the PII in establishing his relativity theories”, Workshop on the PII from Leibniz to Quantum Theory, Université Paris 7, Sept 27, 2019.

“Leibnizian Mereology of Duration and Change”, *Society for Exact Philosophy*, Annual Conference, York University, 17 May, 2019.

“Monadic States: Leibniz’s Law of Continuity and the Discreteness of Change”, *Leibniz et Leibniziennes*, Centre for Theoretical Studies, Charles University, Prague, November 9, 2018.

“Local Time Flow and Relativity”, *45th Annual International Conference on Philosophy of Science*, Inter-university Centre, Dubrovnik: April 20, 2018.

“Monads as Constituents of Bodies in Leibniz’s Metaphysics”, invited paper, for a conference on the metaphysics of composition from a historical and systematical point of view, at the *École Normale Supérieure*, Paris, June 1-2, 2017.

“Leibniz and Quantum Theory”, invited paper for a workshop on *Leibniz and the Sciences* at the Max Planck Institute for Mathematics in the Sciences and the University of Leipzig, Leipzig, November 15, 2016.

“Monadic States, Continuous Creation and Leibniz’s Law of Continuity”, for a session on Leibniz and the continuum, *Leibniz-Kongress*, Hanover, Germany, July 22, 2016.

“Leibniz’s Causal Theory of Time Revisited”, for a session on Leibniz and time, *Leibniz-Kongress*, Hanover, Germany, July 19, 2016.

“Leibniz, Organic Matter and Astrobiology”, *Leibniz–scientist, Leibniz–philosopher*, International Conference at the Lampeter Campus of University of Wales, Trinity Saint David, July 4, 2015.

"Leibniz's infinitesimals and their interpretation", *Society for Exact Philosophy*, McMaster University, Hamilton, May 24, 2015.

"Spacetime in Leibniz's Analysis Situs", *42nd Annual International Conference on Philosophy of Science*, Inter-university Centre, Dubrovnik: April 15, 2015.

"Spacetime in Leibniz's Analysis Situs", for a workshop, *Leibniz: Geometry and Space*, at the Max Planck Institute for Mathematical Science, Leipzig, July 2, 2014.

"Motion geometrically considered, and motion with respect to cause", for a conference on *Geometry and Mechanics*, organized by the Scuola Normale Superiore, Pisa, and the Max Planck Institute for History of Science, Berlin, 24 June, 2014.

"Comments on Lee Smolin's *Time Reborn*", Plenary Session, *Canadian Society for the History and Philosophy of Science*, Annual Congress, May 24, 2014.

"Physical indivisibles in matter and motion: remarks on Scaliger, Beeckman and Leibniz", Workshop on *Finite Geometry, Indivisibles and Minima from the Middle Age to the 18th Century* at the Max Planck Institute for the History of Science, Berlin, 29 May, 2013.

"Points of view, substantial forms and the situations of monads", Oltenia Colloquium in Early Modern Philosophy, *Between Continuity and Transformation: Leibniz on Substance and Substantial Forms*, University of Craiova, New Europe College, Bucharest, May 15, 2013.

"Leibniz on the Relativity of Motion", *Sixth Annual Leibniz Society of North America Conference*, Concordia, October 19-20, 2012.

"The Premodern Theory of Motion: Galileo and Descartes", *Rotman Institute Workshop on the Language of Nature*, London, Ontario, October 11-14, 2012.

"Leibniz on the Relativity of Motion", *Canadian Society for the History and Philosophy of Science Annual Conference*, Waterloo, May, 2012.

"Vexed Relations: the many ironies of Russell's critique of Leibniz's relationalism", *First Annual Conference of the Society for the Study of the History of Analytic Philosophy*, McMaster University, Hamilton, May 2012.

"Leibniz on the Relativity of Motion", *39th International Conference on the Philosophy of Science*, Dubrovnik, Croatia, April 2012.

"Presupposition, Aggregation, and Leibniz's Argument for a Plurality of Substances", *Fifth Annual Leibniz Society of North America Conference*, UCSD, San Diego, June 15-17, 2011.

"On the mathematization of motion before instantaneous velocity: Galileo and Descartes", for a workshop I co-organized "On the Contested Expanding Rôle of Applied Mathematics from the Renaissance to the Enlightenment", Pisa, 13th-16th September, 2010.

"Can thought experiments be resolved by experiment? The case of 'Aristotle's Wheel'", for a workshop "Science without Data? The Role of Thought Experiments in Empirical Investigations", organized by Melanie Frappier and Letitia Meynell in Halifax, Nova Scotia, June 2010.

"Leibniz's Actual Infinite and the Analysis of Matter," *Mathesis metaphysica quadam: Leibniz, between Mathematics and Philosophy*, a workshop on the Interaction

between Leibniz's mathematics and his metaphysics, Université de Paris, March 2010.

"Beeckman's Discrete Moments and Descartes' Disdain", American Philosophical Association, Central Division Annual Meeting, Chicago, February 2010.

"Time Atomism and Ash'arite Origins for Cartesian Occasionalism, Revisited", Conference on Asia-Europe Dialogue and the Making of Modern Science, Singapore, May 8, 2009.

"Minkowski's Proper Time and the Clock Hypothesis", Third International Conference on the Ontology of Spacetime, Concordia University Montreal, June 14, 2008.

"Time and Inertia", at the third Time and Universe Cluster Workshop, Concordia University, Montreal, June 11, 2008.

"Leibniz's Archimedean infinitesimals", joint session of the CSHPS and CSHPM, June 3, 2008.

" $x + dx = x'$: Leibniz's Archimedean infinitesimals", Workshop on Structure and Identity, Royal Academy, Brussels, Belgium, December 8-10th, 2007.

"Time, Inertia and the Relativity Principle", Symposium on Time and Relativity, Institute for Advanced Study, University of Minnesota, October 25-27th, 2007.

"On the Flow of Time", International Conference on the Metaphysics of Time, University of Bergamo, Italy, September 6-8th, 2007.

"Five Objections to Becoming Dissipated", second Time and Universe Cluster Workshop, Concordia University, Vancouver, May 2007.

"The Degeneracy of Time", Second International Conference on the Ontology of Spacetime, Concordia University Montreal, June 2006; and at the first Time and Universe Cluster Workshop, Concordia University, Montreal, June 2006.

"Leery Bedfellows: Newton and Leibniz on the Status of Infinitesimals", Loemker Conference: The Metaphysical and Mathematical Status of Infinitesimals in Leibniz's Time, Emory University, March 31, 2006.

"A complete denial of the continuous? Leibniz's law of continuity," invited paper for a session on "Leibniz: Mathematics and Nature", APA Western Division Meeting, San Francisco, CA March 23-27, 2005.

"A complete denial of the continuous? Leibniz's philosophy of the continuum," invited paper for a mini-conference on *The Continuum in Mathematics and Philosophy*, The Carlsberg Academy, Copenhagen, November 25-27th, 2004.

"Animal Generation and Substance in Sennert and Leibniz", *Midwest Seminar and Central Canada Seminar for the Study of Early Modern Philosophy*, London, Ontario, September 2004.

"On the Premodern Theory of Motion: Galileo and Descartes", *Canadian Society for the History and Philosophy of Science*, Winnipeg, Manitoba, June 2004.

"Minkowski Spacetime and the Dimensions of the Present", International Conference on the Ontology of Spacetime, Montreal, May 2004.

"On the Premodern Theory of Motion: Galileo and Descartes", *International Conference on the Philosophy of Science*, Dubrovnik, Croatia, April 2004.

"Actual infinitesimals in Leibniz's early theories of the continuum," *International Conference on the Young Leibniz*, Houston, April 2003.

"Beeckman, Descartes and the force of motion," *Central Canada Seminar for the Study of Early Modern Philosophy*, Toronto, April 2002.

"Leibniz and Cantor on the Actual Infinite," *VII Internationaler Leibniz-Kongreß*, Berlin, September 2001.

"How Leibniz Went Beyond the At-At Theory of Motion," *Canadian Society for the History and Philosophy of Science*, Québec, May 2001.

"On Leibniz's Solutions to Zeno's Dichotomy," *Corporeal Substances and the Labyrinth of the Continuum in Leibniz: An International Workshop*, Florence Center for the History and Philosophy of Science, Italy, November 23-25, 2000.

"The transcendentalism of π and Leibniz's philosophy of mathematics," *Canadian Society for the History and Philosophy of Mathematics*, Toronto, Canada, July 1999.

"On Thought Experiments and A Priori Physics: A Brown Study," 25th Annual Meeting of the *Philosophy of Science Conference*, Inter-University Centre, Dubrovnik, Croatia, April 1999.

"Three Chronic Errors: Some misconceptions concerning the Direction of Time", 24th Annual Meeting of the *Philosophy of Science Conference*, Inter-University Centre, Dubrovnik, Croatia, April 1998.

"Infinite Aggregates and Phenomenal Wholes," invited address to the Annual Meeting of the Leibniz Society of North America, APA, Philadelphia, December 1997.

"The Enigma of Leibniz's Atomism," *Midwest Seminar in the History of Early Modern Philosophy*, Fall Meeting, Chicago, December 1996.

"Physical Aspects of Leibniz's Continuum Problem," Dibner Institute Symposium on *Leibniz and the Sciences*, MIT, December 1995.

"Relations of Time and Space," VI. *Internationaler Leibniz-Kongreß*, Hanover, Germany, July 1994.

"On Newton's Parallelogram Law and the Calculus," *Canadian Society for the History and Philosophy of Science*, Ottawa, June 1993.

"Three Chronic Errors in the Usual Accounts of Time's Arrow," *Canadian Philosophical Association/Canadian Society for the History and Philosophy of Science*, Ottawa, June 1993.

"Newton on Relative Space," *History of Science Society*, Madison, Wisconsin, November 1991.

"On the Unappreciated Novelty of Leibniz's Spatial Relationalism," V. *Internationaler Leibniz-Kongreß*, Hanover, November 1988.

"Newton and the Moon: Newton's Proof and Application of his Precession Theorem," with William Harper, *History of Science Society*, Raleigh, November 1987.

"The Metaphysical Basis of Newton's Method of Fluxions," *History of Science Society*, Raleigh, November 1987.

"Space as an Order of Situations," *8th International Congress of Logic, Methodology and Philosophy of Science*, Moscow, August 1987.

"Leibniz on Continuity," *Philosophy of Science Association*, Biennial Meeting, Pittsburgh, October 1986.

"Combinatorial Topology and Leibniz's Theory of Space," *Society for Exact Philosophy*, Annual Meeting, Hawaii, February 1986.

"Aspects of Newton's Argument for Universal Gravitation," with William Harper, *Canadian Society for the History and Philosophy of Science*, Annual Conference, Montreal, June 1985.

"Continuous Creation and the Continuity of Time in Descartes' Philosophy," *Canadian Society for the History and Philosophy of Science*, Annual Conference, Montreal, May 1985.

"The Theory of Fluxions and Newton's Philosophy of Time," *Canadian Society for the History and Philosophy of Science*, Annual Conference, Halifax, June 1981.

"A New Slant on the Direction of Time," *Canadian Philosophical Association*, Annual Congress, Halifax, May 1981.

"Exacting a Philosophy of Becoming from Modern Physics," *Society for Exact Philosophy*, Annual Meeting, Halifax, May 1981.

"A Note on Transiency in Relativistic Physics," *Canadian Philosophical Association*, Annual Congress, Montreal, June 1980.

COMMENTS ON CONFERENCE PAPERS

Comments on Alejandro Naranjo Sandoval, "Saving Truth from Arbitrariness", 11th Annual Conference of the Leibniz Society of North America, October 15, 2017.

Comments on Adam Harmer, "Corporeal Substances and Composite Unities in Leibniz", Spinoza-Leibniz Workshop, University of Toronto, March 22-23, 2013.

Comments on Shelley Weinberg, "Possible World Construction and the Paradox of Compossibility", Canadian Philosophical Association Annual Congress, London, Ontario, May 28-31, 2005.

Comments on Txetxu Ausín, "Leibniz and Toulmin: on Rationalism without Dogmas". OSSA: The Uses of Argument, Hamilton, Ontario May 18-21, 2005.

Comments on Karl Ameriks' "Kantian Romanticism and the Project of Enlightenment" and Graham Garrard's "The Enlightenment Project: What it is," Session IV, #25, *North-East American Society for Eighteenth-Century Studies*, Durham, New Hampshire, December, 1999.

Comments on Herman Erlichson's "Passage to the Limit in Proposition 1, Book 1, of Newton's *Principia*," *Infinitesimals: Concepts and Applications: A One-day Conference*, University of Western Ontario, London, Canada, October 30, 1999.

"Peirce's Statistical Mechanical Theory of Teleology: Comments on Andrew Reynolds," *Canadian Philosophical Association*, Annual Congress, St. John's, Nfld., June 1997.

"Was Kant's Philosophy of Mathematics Right for its Time? Comments on Paul Rusnock," *Canadian Philosophical Association, Annual Congress, St. Catharines, Ont., June 1996.*

"French Polish: Comments on Steven French's 'Hacking Away at the Identity of Indiscernibles'," *American Philosophy Association, Eastern Division, Annual Meeting, Washington, D.C., December 1992.*

"On Mind-Body Interaction in Descartes: Comments on Murray Miles," *Canadian Philosophical Association, Annual Congress, Québec, May 1989.*

"Foil for Newton: Howard Stein on Locke, Huygens and Newton," *Philosophical Perspectives on Newtonian Science, Yale University Newton Tricentennial Conference, November 1987.*

"Time Loops and Big Bangs: Comments on Pucetti's 'The Silence of the Future'," *Canadian Society for the History and Philosophy of Science, Annual Congress, Guelph, June 1984.*

"Comments on Foss's 'Bohr Re-interpreted—Complementarity in Classical Mechanics'", *Canadian Philosophical Association, Annual Congress, Montreal, June 1980.*

INVITED PAPERS AND ROUND-TABLE DISCUSSIONS

Discussion with Carlo Rovelli and members of Western University's Rottman Philosophy of Physics Reading Group, where I was invited to present on my 2019 book on time; we read chapters 1 and 4.

"Leibniz's analysis of change: vague states, physical continuity, and the calculus", Visiting Speaker Research Seminar in the Department of Philosophy, University of Bristol (virtually), October 8, 2020.

"Leibniz's metaphysics of change: vague states & physical continuity", Harvard History of Philosophy Workshop, November 15, 2019.

Round-table discussion of my book, *Monads, Composition and Force*, with six respondents: Arthur Dony, Thibault de Meyer, Sören Hand, Laurence Bouquiaux, Valérie Debuiche and Arnaud Pelletier, September 27, 2019.

"On the Hegelian Roots of Russell's Critique of Leibniz", Centre for Formal Epistemology, Institute of Philosophy, Prague, November 8, 2018.

"Monadic States: Leibniz's Law of Continuity and the Discreteness of Change", *SPHERE*, Université de Paris-Diderot, Paris, November 7, 2018.

"Monadic States: Leibniz's Law of Continuity and the Discreteness of Change", Dipartimento di Filosofia, Università degli Studi di Milano, May 10, 2018.

"Scaliger, Sennert, Boyle and the Origins of Leibniz's Theory of Forms", Dipartimento di Filosofia, Università degli Studi di Milano, May 9, 2018.

"Constructing Bodies from Constitutive Unities", Dipartimento di Filosofia, Università degli Studi di Milano, May 8, 2018.

"Monads and Actual Parts: Bodies as Phenomena", Dipartimento di Filosofia, Università degli Studi di Milano, May 8, 2018.

"On the Hegelian Roots of Russell's Critique of Leibniz", Department of Philosophy,

University of Ottawa, April 6, 2018.

"Monads as Constituents of Bodies in Leibniz's Metaphysics", Department of Logic and Philosophy of Science, UC Irvine, March 16, 2018.

"In Memory of Jean-Marie Beyssade", *Séminaire Descartes*, chez l'Université Sorbonne, Paris, June 7, 2017.

"Mathematics and the Leibnizian actual infinite", invited paper for the PhilMath Intersem on the theme of "the place that infinity has played in the history of mathematics", at Université Paris-Diderot-7, June 6, 2017.

"The Part of Beeckman", invited paper for a workshop, *Le part de Beeckman*, at l'Université Sorbonne, Paris, November 19, 2016.

"Leibniz and the Sciences", a round-table discussion at the Max Planck Institute for Mathematics in the Sciences and the University of Leipzig, Leipzig, November 15, 2016.

"Leibniz and Quantum Theory", an invited paper for a workshop on *Leibniz and the Sciences* at the Max Planck Institute for Mathematics in the Sciences and the University of Leipzig, Leipzig, November 15, 2016.

"Some remarks on my article 'Leibniz's Syncategorematic Infinitesimals, Smooth Infinitesimal Analysis, and Second Order Differentials'", *SPHERE*, Université de Paris-Diderot, Paris, May 24, 2016.

"L'espace-temps dans l'analysis situs de Leibniz", *Séance du groupe Mathesis*, Université de Paris-Diderot, Paris, May 20, 2016.

"Leibniz's infinitesimals and their interpretation", *SPHERE*, (séminaire d'histoire et de philosophie des mathématiques), Les fondements du calcul infinitésimal XVII-XVIIIe siècles, Université de Paris-Diderot, Paris: May 9, 2016.

"On the Hegelian Roots of Russell's Critique of Leibniz", Early Modern Philosophy Seminar, Western University, London, Ontario, April 7, 2016.

"Scaliger, Sennert, Boyle and the Origins of Leibniz's Theory of Forms", keynote address at the workshop on *Early Modern Philosophy and Intellectual History* at the University of Toyama, Toyama, Japan, February 12, 2016.

"Leibniz from the Perspective of Modern Science", invited lecture at the University of Tokyo, with commentary by Dr. Hiroyuki Inaoka and Dr. Kosuke Abe, February 10, 2016.

"Leibniz, Organic Matter and Astrobiology", *Origins Institute*, McMaster University, February 2015.

"Vexed Relations: the many ironies of Russell's critique of Leibniz's relationalism", Department of Philosophy, McMaster University, Hamilton, January 2015.

"Leibniz's infinitesimals and their interpretation", Department of Mathematics, McMaster University, Hamilton, January 2015.

"Leibniz on the Relativity of Motion", invited lecture for the Philosophy and Foundations of Science Unit, Utrecht, Netherlands, June 20, 2014.

Two invited lectures and discussions on my unpublished dialogue, *Leibniz in Cantor's Paradise*, at the Scuola Normale Superiore, Pisa, May 22 and 24, 2013.

"Points of view: the relevance of the relativity of motion to Leibniz's revised concept of substantial form", Modern Philosophy Research Group, University of Toronto, April 4, 2013.

"Leibniz on the Relativity of Motion", Institute for the History and Philosophy of Science and Technology, University of Toronto, April 4, 2012.

"De indivisibilibus: Leibniz's Archimedean Infinitesimals", Scuola Normale Superiore and the Centro De Giorgi, Pisa, Italy, April 11, 2008.

"De infinito: Leibniz's Theory of the Actual Infinite", Scuola Normale Superiore and the Centro De Giorgi, Pisa, Italy, April 8, 2008.

"De tempore: Leibniz's Theory of Time", Scuola Normale Superiore and the Centro De Giorgi, Pisa, Italy, April 7, 2008.

"De compositione: Leibniz on Aggregation", Scuola Normale Superiore and the Centro De Giorgi, Pisa, Italy, April 4, 2008.

"Leibniz and the Elimination of Time", Department of Philosophy, University of British Columbia, BC, February 1, 2008.

"Materialist Theories of Time", Faculty of Architecture, University of Delft, Netherlands, December 12, 2007.

"Materialist Theories of Time", Proemial Lecture for the Tri-University PhD Program, Wilfrid Laurier University, Waterloo, Ontario, September 28, 2007.

"MacCafé: Does God Really Exist?" (with David Hitchcock), McMaster University Alumni Association, Burlington, Ontario, June 26, 2007.

"The Origins of Newton's Laws", *Origins Institute*, McMaster University, March 20, 2006.

"Was Leibniz an Immaterialist?" (with Peter Loptson, University of Guelph), Department of Philosophy, McMaster University, January 27, 2006.

"A Potted History of Reflection on Time", an address for the Sicilian Cultural Society of Canada in Aurora on the occasion of the unveiling of the statue "Clepsydra Man", televised in Toronto on Channel 35, August 29th, 2004.

"Leibniz's Actual Infinite as an Alternative to Cantor's Transfinite," Logic Colloquium, McMaster University, April 2003.

"Leibniz contro Cantor sull'infinito attuale," Dipartimenti di Matematica e Filosofia, Università di Firenze, Florence, April 2002; Dipartimento di Filosofia, Università di Bologna, Bologna, April 2002.

"On Leibniz's Inversion of Zeno's Dichotomy," Department of Philosophy, University of Toronto, November 2001; Department of Philosophy, York University, February 2002; McMaster University, February 2002.

"Leibniz versus Cantor on the Actual Infinite," Department of Mathematics, York University, January 2002.

"Force and the Calculus in Newton's Early Work," IHPST (Institute for the History and Philosophy of Science and Technology), University of Toronto, October 2001.

"What is Life?", Faculty Panel Discussion, Clifford Symposium, Middlebury College,

October, 1999.

"Schrödinger's Cat and Wheeler's Eye," Wonnacott Commons, Middlebury College, November 1998; The Philosopher's Forum, Middlebury College, March 1997.

"Time in Seventeenth Century Natural Philosophy," Dipartimento di Filosofia, Università di Padova, Padua, May 1998.

"From Atoms to Monads: Leibniz's Theory of Substance as a Solution to the Continuum Problem", Dept. of Philosophy, University of Guelph, March 1998; Dipartimento di Filosofia, Università di Firenze, Florence, April 1998.

"The Enigma of Leibniz's Atomism," IHPST, University of Toronto, February 1995; Middlebury College, Middlebury, March 1996; Dept. of Philosophy, McGill University, March 1997; Dipartimento di Filosofia, Università di Bologna, Bologna, March 1998.

"Reflections on Bloom's *The Closing of the American Mind* ten years after Publication," Political Forum, Middlebury College, February 1997.

"Mind and Space in Seventeenth Century Philosophy," IHPST, University of Toronto, April 1995.

"Cosmic Hubris: Are We the Reason for the Universe? A Discussion of the Anthropic Principle," Middlebury College, Middlebury, May 1994.

"Relations and Leibniz's Nominalism," Department of Philosophy, York University, Toronto, March 1993.

"Leibniz on Space and Relativity," Department of Philosophy, University of Ottawa, November 1991; IHPST, University of Toronto, February 1992; Department of Philosophy, Concordia University, Montreal, March 1992.

"Newton's Fluxions and Equably Flowing Time," IHPST, University of Toronto, January 1990; Department of Philosophy, York University, Toronto, February 1992.

"Time Atoms: Buddhism, Basra and Descartes's Dream," Middlebury College, April 1991.

"Relative Space in Newton and Leibniz," Department of Philosophy, York University, Toronto, February 1990.

"Russell's Conundrum: On the Relation of Leibniz's Monads to the Continuum," McMaster University, Hamilton, February 1990.

"Quantum Theory and Materialism," Department of Philosophy, Middlebury College, May 1989.

"Continuous Creation and the Continuity of Time in Descartes' Philosophy," Department of Philosophy, University of Manitoba, April 1986; Department of History of Medicine and Science, University of Western Ontario, April 1986.

"Continuity in Seventeenth Century Mathematics," Department of Applied Mathematics, University of Western Ontario, April 1985.

"Leibniz's Theory of Time," *Peter of Padua Society*, Department of Philosophy, University of Western Ontario, April 1983.

"On Humanism" (with Dr. Howard Woodhouse), "Inspiration" (a television series on religion), channel 9, *Nigerian Television*, Calabar, October 1981.

Richard T. W. Arthur**Curriculum vitae**

"Transiency, time reversal and tachyons," *Symposium*, Department of Philosophy, University of Western Ontario, January 1980.

"The Quantum Theory of Radiation of Bohr, Kramers and Slater: An Historical Study," *Symposium*, Department of Philosophy, University of Western Ontario, November 1978.

"Towards a New Theory of Sense and Reference," *Symposium*, Department of Philosophy, University of Western Ontario, May 1978.

"The Objectivity of Knowledge," *Symposium*, Department of Philosophy, University of Western Ontario, February 1977.

COURSES TAUGHT

[Key: F = Fall, J = Jan., W = Winter (Jan-April), S = Spring (Feb-May), U = Summer
URC = Undergraduate Reading Course, GRC = Graduate Reading Course]

Università degli Studi di Milano, Italy

Monads, Composition and Force 2018S

McMaster University

Leibniz on the Estimation of Force	2021U
Leibniz's Philosophy of the infinite	2019F
Philosophy of the Enlightenment	2017F, 2016F, 2014F, 2013W, 2011W, 2008F
Leibniz and the Labyrinth (Grad. Seminar)	2017F, 2014F, 2011W, 2009W
Leibniz (URC)	2017F, 2016U
Introductory Logic	2017W, 2015F, 2014W, 2011F, 2010F, 2009F, 2008F, 2006F, 2005F, 2004F
Philosophy of Time (URC)	2016F
Intermediate Logic	2017W (4/6 split)
The Plurality of Forms (Grad. Seminar)	2016F
Space and Time (Grad. Seminar)	2016W
Philosophy of Science	2016W, 2009W, 2007W
Leibniz (GRC)	2016W
Origins of Space-time (Origins Institute)	2016W, 2012F, 2011W, 2008F
Kuhn and Kant (URC)	2015F
Problems of Philosophy	2015F, 2003W, 2003F
Philosophy of Biology (URC)	2014U
Metaphysics: Infinity and Antinomy (Grad. Seminar)	2014W
Early Modern Philosophy (4A03/6A03)	2013F
Bergson and Russell on Memory and Time (GRC)	2013F
Deleuze, Spinoza and Leibniz (with Barry Allen)	2012F
Philosophy of Modern Science (Arts&Sci)	2010F
Philosophy of Language	2011F, 2010W
The Flow of Time (Grad. Seminar)	2010W
Historical Context of Modern Science (Arts&Sci)	2009F
Spinoza's Philosophical Psychology (GRC)	2009U

Richard T. W. Arthur**Curriculum vitae**

Social Construction and Continental Thought (GRC)	2007U
The Infinite (GRC)	2004F
Natural Philosophy of Descartes and Leibniz	2006W, 2004W
Issues in the Philosophy of Time (Grad. Seminar)	2007W, 2005W, 2002F
Time and Consciousness (GRC)	2003W
The Infinite (URC)	2003W
Middlebury College	
Issues in the Philosophy of Time	2001S, 1997S, 94S, 91S, 86S
Introduction to the History of Modern Science	2001S, 1999S, 96S, 92F, 90F, 87F
Enlightenment Philosophy	2000F, 1999S, 95F, 92F
Introduction to Modern Logic	2000F, 1999F, 98F, 97F, 96F, 96S, 93F, 92S, 90F, 89S, 87F, 86F, 86S
Science and Society	2000S, 1996F
What is Life?	2000S
Philosophy of Physics	1999J
Early Modern Philosophy	1999F, 97F, 91F
Physics and the Mind of God	1998F, 97S
The Infinite	2001J, 1996J, 94J
Cosmos and Revolution	1995F, 91S
Intermediate Logic	1994S, 88S
Theories of the Universe	1993F, 91F
Introduction to the Philosophy of Science	1992S
Quantum Reality	1992J, 87J
A Hitchhiker's Guide to Philosophy	1991J, 88J,F
History of Materialism	1989S, 86F
Philosophy of Science	1988F, 87S, 85F
Hobbes and Leibniz	1988S
Introduction to Philosophy	1987S, 85F
Theories of Motion from Kepler to Newton	1986J
Università degli Studi di Bologna, Italy	
Time in 17th C Natural Philosophy	1998S
York University, Toronto, Canada	
Exploring Philosophy	1993W
Leibniz (Graduate Seminar)	1993W
University of Western Ontario, London, Canada	
Introduction to Calculus	1984-85, 83-84
Numerical Analysis	1984-85
Introductory Math. for Social Scientists	1985U, 1984U
Philosophy of Education	1977-78
Reasoning and Critical Thinking	1975-76, 76-77
University of Calabar, Nigeria	
Introduction to Logic	1981-2
Philosophy of Science	1981-2
Epistemology and Metaphysics	1981-2
History of Philosophy—Bacon to Kant	1981-2

GRADUATE SUPERVISIONS

External Examiner for: Laurynas Adomaitis, Scuola Normale, Pisa, Italy (2020)
 Vincenzo De Risi, Scuola Normale, Pisa, Italy (2005)
 Emmaline Bexley, University of Melbourne (2008)
 Tamar Levanon, University of Haifa (2009)

Supervisor:

Postdoctoral supervisor: Filippo Costatini (2021-)

Visiting Scholar Supervisor: Byung-hoon Jeong (2010), George Gheverghese Joseph (2011)

PhD: Jeffrey Elawani (2021-), Yussif Yakubu (2011-15, completed), James Sikkema (2011-15, completed), Adam Sopuck (2011-13), Haixia Zhong (2009-13, completed), Jordan Burks (2006-07), Monika Mandoki (2006-07), Bryce Ferrie (2003-05), Paul Sweeney (2003-07).

MA: Jason Coutts (2016-20, P-T, completed), Joshua Emmanuel (2015-), Mark Garron (2013-16), Andrés Miramontes (2013-14), Colin McQuaid (2012- 2013, completed), Yussif Yakubu (completed 2011), Jolen Galaugher (completed 2008), Jim Monier-Williams (completed 2007), Adam Harmer (completed 2006), Patrick Riesterer (completed 2006), Jeremy Livingston (completed 2005).

Undergraduate: T. William Bell (2017), Rachel Katz (2017-18), Matthew Jordan (2015-16), Emily Dies (2013-14); Daniel Carens-Nedelsky (2011-12); Adam Woodcox (2010-11).

Supervisory Committee:

PhD: Ethan Meanor (2015-20, completed), Matthew Gardhouse (2015-), Rich Neels (2015-16), Jonathan Marshall (2014-2016), Walter Reid (2015-16), Adam Sopuck (2010-11, 2013-15, completed), Mike Bennett (2009-14, completed), Charlene Elsby (2013-14, completed), Scott Balasak (2009-14), Jolen Galaugher (2008-2011, completed), Jeremy Proulx (2007-10, completed), Qilin Li (2006-2012, completed), Jeremy Livingston (2005-2013), Gülberk Koç (2004-10, completed), Jill Gilbert (2004-07, completed), Mireille Truong (completed 2002).

MA: Andrew Pineau (2011-2013, completed), Joe Sneep (2011-2013, completed), Colin McQuaid (2010-12, completed), Michael Volek (completed 2006), Benjamin Doxtedor (completed 2006), Jessica Murphy (completed 2006), Jolen Galaugher (2005-07, completed), Joe L'Esperance (completed 2005), David Payne (completed 2004), Kent MacAskill (completed 2002).

RESEARCH FUNDING

ANRC: «Partenaire étranger» for the Mathesis Project: Leibniz's Unpublished Geometrical Manuscripts. Edition and Commentary. €450,000.

SSHRC Cluster Design Grant, January-December 2005: \$17,000. Principle Investigator. Time and Universe: addressing philosophical problems concerning time in the context of the creation of a feasible theory of quantum gravity.

SSHRC Cluster Grant, Principle Investigator. Interim Funding, January – December 2006, \$25,000. Time and Universe.

ORS, McMaster University, January – December 2006, \$5,000. Matching grant for Time and Universe project.

LEARNED SOCIETY MEMBERSHIPS

Canadian Society for the History and Philosophy of Science (2nd VP 2002-05, 1st VP 2005-07, President: 2007-10), Leibniz Society of North America (Exec 2001-05, 2012-16, Vice-president 2019-21), Canadian Society for the History and Philosophy of Mathematics, Society for Exact Philosophy, International Society for the Advanced Study of Spacetime.

PROFESSIONAL SERVICE

Occasional referee for the journals *Archiv für Geschichte der Philosophie* (2010, 2012, 2016, 2018, 2019), *Australian Journal of Philosophy* (2019), *British Journal for the History of Philosophy* (2013, 2014 x2, 2015, 2016, 2019), *British Journal for the Philosophy of Science* (2004, 2008), *Canadian Journal of Philosophy* (1997, 2008, 2015), *Dialectica* (2005), *Dialogue* (2002), *Diametros* (2012), *Early Science and Medicine* (2006, 2008), *Ergo* (2019), *Erkenntnis* (2011), *European Journal for Philosophy of Science* (2013), *Foundations of Science* (2010, 2013), *Historia Mathematica* (2002, 2003, 2006, 2020), *History of Philosophy Quarterly* (2018, 2019), *HOPOS: The Journal of the International Society for the History of Philosophy of Science* (2019), *Humana Mente* (2008), *Idealistic Studies* (2019), *International Studies in the Philosophy of Science* (2002-03), *Isis* (2018), *Journal for General Philosophy of Science* (2011), *Journal for the History of Philosophy* (2002, 2003, 2006, 2012, 2013, 2014, 2017, 2019, 2021), *Journal of Philosophical Logic* (2005), *Leibniz Review* (2007, 2008, 2009, 2011, 2015, 2016, 2018), *Lo Sguardo* (2020), *Manuscrito* (2020), *Mind* (2001, 2012, 2018), *Notre Dame Journal of Formal Logic* (2007), *Nous* (2002, 2014), *Perspectives on Science* (2007), *Philosophia* (2019), *Philosophia scientiae* (2020), *Philosophia Mathematica* (2014), *Philosophical Review* (2016), *Philosophical Studies* (1996), *Philosophical Quarterly* (2017, 2018, 2019), *Philosophy and Phenomenological Research* (2006, 2018), *Philosophy of Science* (1998, 2013, 2015), *Revista de filosofia* (2020), *Revue d'histoire des sciences* (2018), *Review of Metaphysics* (2019), *Science and Education* (2020), *Society and Politics* (2012), *Studies in the History and Philosophy of Modern Physics* (2004, 2008, 2013, 2014, 2015), *Studies in History and Philosophy of Science* (2012, 2018, 2020), *Synthese* (2014, 2015, 2016).

Referee for conference submissions to the *Canadian Philosophical Association* (1996, 2005, 2006, 2008, 2009, 2010, 2012, 2014, 2015); for *Western Canadian Philosophical Association* (2014).

Referee for Westview Press (2001), McGill-Queens Press (2002), Routledge (2002), Yale University Press (2005), Elsevier (2007); Broadview Press (2002); Les Presses de l'Université de Montréal (2015); Cambridge University Press (2016); Oxford University Press (2020).

Referee for promotion and tenure reviews: Dartmouth College (2003), University of Tulsa (2008), University of Illinois at Chicago (2016), Iowa State University (2017), Bar Ilan

University (2018), University of Notre Dame (2020), Carleton College (2020),

Referee for the National Endowment for the Humanities (1995); and the Social Science and Humanities Research Council (Canada) (1996, 2006, 2015); Killam Fellowship (2003); European Science Foundation (2005); Max Planck Research Group Leader Evaluation (2015).

Organizer and joint selector of papers for two sessions of the Mid-West Seminar in Chicago in the History of Early Modern Philosophy, Spring and Fall 1997; and for the CCSSEMP in Guelph in the Fall of 2005.

Co-organizer and joint selector of papers for the 11th Annual Conference of the Leibniz Society of North America, University of Toronto, October 2017.

COLLEGE AND UNIVERSITY SERVICE

2016-17	PhD Advisor, Philosophy Dept., McMaster University.
2016-17	PhD Program Committee, Philosophy Dept., McMaster University.
2016-17	Awards Committee, Philosophy Dept., McMaster University.
2015-17	T & P committee (elected), Philosophy Dept., McMaster.
2013-17	CPM Rating Committee, Philosophy Dept., McMaster.
2016	Visiting Speakers Coordinator, Philosophy Dept., McMaster.
2015	Chair's Selection Committee, Faculty of Humanities, McMaster.
2014	External Reviewer of the MA programme, Lethbridge University.
2014	Curriculum Committee, Philosophy Dept., McMaster.
2013-14	MA Advisor, Department of Philosophy.
2012-13	Acting Chair, Department of Philosophy.
2011-12	Appointments Committee, Philosophy Dept., McMaster.
2008-11	CPM Rating Committee, Philosophy Dept., McMaster.
2008-11	Curriculum Committee, Philosophy Dept., McMaster.
2008-11	Director, Guelph-Laurier-McMaster Joint Doctoral Programme.
2008-11	Tenure and Promotion Committee, Philosophy Dept., McMaster.
2009-10	Graduate Studies, External Scholarship Ranking Committee.
2008-09	PhD Advisor, Philosophy Dept., McMaster University.
2008-09	PhD Program Committee, Philosophy Dept., McMaster University.
2006-07	Tenure and Promotion Committee, Philosophy Dept., McMaster.
2006-07	Appointments Committee, Philosophy Dept., McMaster.
2006	External Assessor, Review of the Department of Philosophy, Memorial University, Newfoundland.
2005-06	Academic Planning Committee, McMaster.
2002-07	Dean's Advisory Council, Humanities, McMaster.
2002-07	Tri-University Steering Committee
2002-07	PhD Admissions Committee, Philosophy Dept., McMaster.
2002-07	MA Admissions Committee, Philosophy Dept., McMaster.
2002-07	CPM Rating Committee, Philosophy Dept., McMaster.
2003-04	Elected Member of the Senate, McMaster University.
2003-04	Senate Executive, McMaster University.
2003-04	Senate By-Laws Committee, McMaster University.

- 2003-04 Dean of Graduate Studies Ad Hoc Committee, McMaster University.
- 2002-05 Appointments, Promotion and Tenure Committee, Philos., McMaster.
- 2002-07 Chair, Department of Philosophy, McMaster University.
- 2002-03 Dean of Humanities Selection Committee, McMaster University.
- 2000-01 Curriculum Committee, Middlebury College.
- 1995-99 Chair, Department of Philosophy, Middlebury College.
- 1997-98 Faculty Rep., Student Disciplinary Committee, MC.
- 1994-98 President, Middlebury College Local Chapter, AAUP.
- 1993-94 Human Subjects Committee, Middlebury College.
- 1991-92 Human Relations Committee, Middlebury College.
- 1991-92 Environmental Studies Program Steering Committee, Middlebury College.
- 1990-91 Honor Code Review Committee, Middlebury College.
- 1988-89 Library Committee, Middlebury College.
- 1988-89 Steering Committee, Environmental Studies Program, Middlebury College.
- 1987-88 Curriculum Committee, Middlebury College.
- 1985-87 Pre-Law Committee, Middlebury College.
- 1978-80 President, Society of Graduate Students, UWO.
- 1978-80 Executive Member, Faculty of Graduate Studies, UWO.
- 1979 Senate Committee on University Planning, UWO.
- 1978-79 Senate Promotion and Tenure Committee, UWO.
- 1978-79 Senate Committee on Academic Programmes, UWO.
- 1978-79 Chairperson, National Graduate Constituency, NUS.
- 1978 First Vice-President, Society of Graduate Students, UWO.
- 1977-79 Secretary, Ontario Graduate Association.
- 1976-78 President, 'Symposium' (Philosophy Graduate Students' Society), UWO.