

**BAS C. VAN FRAASSEN**  
**Curriculum Vitae**

*Last updated 5/4/2018*

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**BAS C. VAN FRAASSEN**  
**Curriculum Vitae**

**I. PERSONAL AND ACADEMIC HISTORY**

Date of Birth: 5 April 1941  
Citizenship: Canadian and USA  
Place of Birth: Goes, The Netherlands

**List of Degrees Earned**

B.A. (hon.), Philosophy, University of Alberta, 1963  
M.A., Philosophy, University of Pittsburgh, 1964  
Ph.D., Philosophy, University of Pittsburgh, 1966

**Title of Ph.D. Thesis**

"Foundations of the Causal Theory of Time"

**Supervisor of Ph.D. Research:**

Professor A. Grünbaum, Center for Philosophy of Science,  
University of Pittsburgh, Pittsburgh, PA 15260, U.S.A.

**Positions held**

Visiting Assistant Professor, West Virginia University, 1966, Spring Term.  
Assistant Professor, Yale University, 1966-68.  
Associate Professor, Yale University, 1968-69.  
Visiting Associate Professor, Indiana University, 1968-69.  
Associate Professor, University of Toronto, 1969-73.  
Professor, University of Toronto, 1973-January 1982.  
Professor, University of Southern California, 1976-1981.  
Visiting Professor, Princeton University, 1981 Spring Term.  
Professor, Princeton University, Spring term, 1982-1998  
McCosh Professor of Philosophy, Princeton University, 1998 -2008  
McCosh Professor of Philosophy, Emeritus Princeton University, 2008 -  
Distinguished Professor of Philosophy, San Francisco State University, 2008 -

**Invited lectures and lecture series**

[1970]

University College, London; Jan-Feb 1971, Course of four lectures, "Truth and Paradoxes".

University of Adelaide, Australia; Ap-May 1974, Course of four lectures, "Conditionals and Probability"

University of Western Ontario, Sept-Dec 1976. Course of seven lectures, "Scientific Realism and

Probability".

Enrico Fermi Institute, Varenna, Jul-Aug 1977. Course of five lectures, "Foundations of Probability".  
Wichita State University, Jan 1979. Course of five lectures, "Scientific Realism".  
Princeton University, May 1979. Course of three lectures, "The Scientific Image".

[1980]

University of Western Ontario, Sep-Dec 1980. Course of seven lectures, "Probability and Semantics".  
Instituto de Investigaciones Filosóficas, Mexico City, Aug 1985. Course of three lectures, "Empiricism and Philosophy of Science".  
Center for Philosophy of Science, University of Minnesota, March and May 1986. Course of five lectures, "Semantic Approach to Theories".  
International Center for Theoretical Physics, Trieste, Oct 1989. Course of four lectures, "Foundations and Interpretation of Probability".

[1990]

University of California at Davis, Oct-Dec 1990. Course of six lectures, "Epistemology of science".  
Monash University, August 1993. Course of four lectures, "Empiricism".  
Ernan J. McMullin Perspectives Series Lecturer, University of Notre Dame, October 1994.  
James B. and Grace J. Nelson Philosopher in Residence, University of Michigan, October 1994.  
The 1995 Immanuel Kant Lectures, Stanford University, April 1995.  
Closing Plenary Lecture, International Congress of Logic, Methodology and Philosophy of Science, Florence, August 1995.  
Collège de France, Invited Lecture, Dec. 1997, "What is empiricism and what could it be?"  
Alberto Coffa Lecturer, Indiana University, Sept 98, "Science as Representation"  
Lansdowne Lecturer, University of Victoria (Canada), Nov. 1998.  
Don Shula Lecturer, John Carroll University, March 1998, "What Is Empiricism, and What Could It Be?"  
Lawrence University, Oct. 1999 The Stevens Lecture, "Scientific Revolution/Conversion as a Philosophical Problem"  
Yale University, October 1999 the Dwight H. Terry Lectures  
University of Louvain-la-Neuve, Nov-Dec. 1999 the Cardinal Mercier Chair

[2000]

American Philosophical Association, Pacific Division, April 2000; Symposium "*The Scientific Image Twenty Years After*"  
St. Lawrence University, April 2001; The MacKay Lecture  
University of Dundee, April 2001; Conference: *van Fraassen's Philosophy of Science*  
University of Durham, May 2001; Royal Institute of Philosophy Lecture  
University of Oxford, April-June 2001, The Locke Lectures  
University College Dublin, October 2001, The Agnes Cuming Lectures (jointly with Ernan McMullin)  
Carnegie-Mellon University, Pittsburgh, February 2002, The Ernest Nagel Lectures  
University of Oklahoma, October 2002, The David Ross Boyd Lectures  
Fordham University, March 2003, The Suarez Lecture  
CNRS/Ecole Polytechnique, Paris May 2003, Colloque : Bas van Fraassen, *The Empirical Stance*  
University of Hamburg, June 2003, The Carl Friedrich von Weizsäcker Lectures on Philosophy and

Physics

American Philosophical Association, Pacific Division, March 2004. Symposium: *The Empirical Stance*.

University of California, Santa Cruz, May 2004. Presidential Chair Lecture Series on Science and Philosophy.

Canadian Society of History and Philosophy of Science, May 2004. The Stillman Drake Lecture. St. Olaf College, January 2005, The Belgum Lectures

University of Toronto, October 2007. The Wiegand Lecture

American Philosophical Association, Eastern Division, December 2007. The Carus Lectures.

Katholieke Universiteit Leuven. December 2008. Eredoktoraat Lezing

University of Uppsala. June 2009. The Hägerström Lectures

University of California at Berkeley, September 2009. The Townsend Lectures.

[2010]

University of Miami, March 2010, The Stanford Lectures

University of California at Los Angeles, October 2010, The Reichenbach Lecture.

University of Coruna, Spain. El Planteamiento de Bas van Fraassen, March 2011.

University of Quebec in Montreal, The Leblanc Lectures, April 2012.

Hamline University, The Hanna Lectures, April 2013.

Western University, The Rotman Lectures, April 2014.

## List of Honors, Prizes

Lieutenant-Governor's Gold Medal, Alberta, 1963.  
 MacEachren Gold Medal in Philosophy, Alberta, 1963.  
 Woodrow Wilson Fellowship, 1963-65.  
 Andrew Mellon Fellowship, 1965-66.  
 Woodrow Wilson Dissertation Fellowship, 1965-66.  
 John Simon Guggenheim Memorial Fellowship, 1970-71.  
 University of Toronto Humanities Grant, 1975-76.  
 Connaught Senior Leave Fellowship, Fall term, 1979.  
 Honorary Research Fellow, University College, London, 1979.  
 Co-winner, Franklin J. Matchette Prize for Philosophical Books, 1982.  
 Distinguished Alumnus Award for Excellence, University of Pittsburgh, 1984.  
 Co-winner, Imre Lakatos Award for 1986.  
 Howard T. Behrman Award for Distinguished Achievement in the Humanities, 1995  
 Foreign Member, Koninklijke Nederlandse Akademie van Wetenschappen  
 (Royal Netherlands Academy of Arts and Sciences); elected 1995.  
 Fellow, American Academy of Arts and Sciences, elected 1997.  
 University of Lethbridge, Doctor of Letters, honoris causa 1999.  
 All Souls College, Oxford, Visiting Fellow and Locke Lecturer, 2000.  
 University of Notre Dame, Doctor of Law, honoris causa, 2001.  
 Magdalen College, Oxford, Visiting Fellow, 2003.  
 Katholieke Universiteit Leuven (Belgium), Doctor of Philosophy, honoris causa, 2008.  
 Titular Member, Académie Internationale de Philosophie des Sciences, elected 2008.  
 Corresponding Fellow, The British Academy, elected 2008.  
 International Giulio Preti Prize (Tuscany), 2009.  
 The Hempel Award, Philosophy of Science Association 2012.  
 Honorary Presidency, XI International Ontology Congress, San Sebastian 2014.

## Research Grants

1967-69	NSF Research Grant.
1969-70	Canada Council Research Grant.
1971-74	Canada Council Research Grant.
1974-76	Canada Council Research Grant.
1976-78	Canada Council Research Grant.
1978-80	National Science Foundation: "Rational Belief Change and Scientific Inference".
1980-82	National Science Foundation: "An Empiricist Account of Probability Judgments and Theory Acceptance".
1982-1983	National Science Foundation Senior Research Grant.
1984-1986	National Science Foundation "The Problem of Identical Particles"
1986-1987	National Science Foundation Senior Research Grant "Laws of Nature and Laws of Physics".
1988-1989	National Science Foundation "Interpretation of Probability in Physics."
1989-1990	National Science Foundation "A Theory of Vague Expectation."

1999-2000	National Endowment for the Humanities, "The Prospect for Empiricism in Contemporary Philosophy"
2003-2004	Center for Advanced Study in the Behavioral Sciences, Stanford "Representation and Perspective in Science"
2006-2007	National Science Foundation, SES Award 549002 "Scientific Representation: Paradoxes of Perspective"
2010-2013	Co-PI, National Science Foundation, SES Award 1026183 "Making Sense of Modeling and Experimenting: Beyond Representation"

### Non-Academic Publications

- "The Next Song" (story), The Fiddlehead Number III (Fall 1976).  
 "Picture Yourself a Philosopher" (brochure -- with S. Alcalay), USC Graphics, May 1978.  
 "Walk to a Dead End" (story), Eros, Summer issue, 1979.  
 "St. Xaviera" (story), Poetic License, 1979.  
 "The Game" (Story), Corona, 1981.  
 "La Città Invisibile/The Invisible City", in L. Mazza (ed.), catalogue of the Milan Triennale Exhibition. Milano: ElectaS.p.a., 1988.

## II. PROFESSIONAL ACTIVITIES

### Conference Organizing Committees

1. Conference on Recent Research in Logic and Language , University of Toronto, April 1970.
2. Conference on the Philosophy and Foundations of Physics, Penns. State University, Sep. 1971.
3. Philosophy of Science Association Biennial Meeting Michigan State University, Oct. 1972.
4. Society for Exact Philosophy Annual Meeting, University of Toronto, March 1973.
5. Society for Exact Philosophy Annual Meeting, McGill University, Montreal, June 1979.
6. Workshop on Quantum Logic, Erice (Sicily), December 1979.
7. American Philosophical Association, Eastern Division, Program Committee for 1981.
8. Symposium on Modern Physics, Joensuu, Finland, June 1985.
9. Conference on Statistics in Science, Luino, Italy, June 1988.
10. Symposium on Modern Physics, Joensuu, Finland, June 1990.
11. Symposium on the Interpretation of Quantum Theory, New York, April 1992.
12. "Seven Perspectives on Literature" Philosophy and Literature Conference, Princeton, Nov., 1992
13. Philosophy of Quantum Mechanics Conference, Princeton University, May 1993.
14. Princeton-Rutgers Joint Conference on the Relations between Epistemology and Philosophy of Science (co-organizer with Dean Richard Foley) May 1994.
15. Princeton-Rutgers Joint Conference on Gravity And The Quantum. May 1998.
16. Princeton-Oxford Philosophy of Physics Conference, Princeton May 2002.
17. Evert J. Beth Symposium, Netherlands Academy of Arts and Sciences, Sept. 2008.
18. SFSU, Workshop "The Experimental Side of Modeling", San Francisco, March 2009
19. SFSU, Workshop "The Experimental Side of Modeling", San Francisco, March 2010
20. International Academy for the Philosophy of Science (AIPS) Conference, Louvain-la-Neuve,

April 2011

### Editorial Positions

1. Review Staff, *Zentralblatt für Mathematik*, 1968-70.
2. Editorial Board, *Erkenntnis*, 1974- .
3. Editor-in-Chief, *Journal of Philosophical Logic*, 1971-77.
4. Member, Board of Referees, *Philosophical Research Archives*, 1975-89.
5. Member, Board of Editors, *Philosophical Studies*, 1977-82.
6. Member, Executive Committee, *Journal of Philosophical Logic*, 1977-89. Member, Editorial Board, 1989-.
7. Member, Board of Consulting Editors, *Epistemologia*, 1978- .
8. Member, Editorial Board, *University of Western Ontario Studies in the Philosophy of Science*, 1979-97.
9. Member, Editorial Executive, *Pacific Philosophical Quarterly*, 1979-1989.
10. Consulting Editor, Reviewing Advisory Board, *Journal of Symbolic Logic*, 1980-82.
11. Editorial Board, *Topoi*, 1980- .
12. Editorial Board, *Humanities in Society*, 1980-1988.
13. Editorial Board, *Philosophy of Science*, 1981-1999 (renewed 1994).
14. Joint Editor, *Journal of Symbolic Logic*, 1983-1986.
15. Consulting Editor, *Journal of Semantics*, 1982-86.
16. Nominating editor, *The Philosopher's Annual*, 1986-1995.
17. Joint editor, *Journal of Symbolic Logic*, 1986-1989.
18. Member, Editorial Board, *Foundations of Physics Letters*, 1988-2006.
19. Member, Board of Advisors, *The Cambridge Dictionary of Philosophy*, 1988 -.
20. Joint Guest Editor of first issue of new journal, and member, Editorial Board, *Foundations of Science*, 1993-
21. Member, Editorial Advisory Board, *Studies in History and Philosophy of Modern Physics*, 1995-
22. Member, Editorial Advisory Board, *Theoria* (Spain), 1996-
23. Member, Editorial Board, *Studies in the History and Philosophy of Science*, 1998-
24. Member, Editorial Board, *Logic, Epistemology And The Unity Of Science*, 2003 -
25. Member, Editorial Board, *Contemporary Pragmatism*, 2003 -
26. Member, Advisory Board, *Representaciones*, 2005-
27. Member, Editorial Board, *Foundations of Physics* 2006 – 2013.
28. Member, Advisory Board, *Abstracta* 2007-
29. Member, Editorial Board, *Tijdschrift voor Filosofie* 2008-
30. Member, Editorial Board, *European Journal for Philosophy of Science*, 2009-.
31. Member, Advisory Editorial Board, *Metatheoria. Revista de Filosofía e Historia de la Ciencia*, 2009 –
32. Member, Scientific Board, *Humana Mente*, 2010 -
33. Member, Editorial Advisory Board, *Versita Open Access*, 2012 -

### Other Professional Activities

1. Secretary, *Society for Exact Philosophy*, 1972-74.

2. Governing Board, *Philosophy of Science Association*, 1975-76.
3. President, *Society for Exact Philosophy*, 1976-78.
4. Scientific Secretary, *Summer School on Foundations of Physics*, Enrico Fermi Institute (Varenna, Italy), 1977.
5. Chairman, Program Subcommittee on Philosophical Logic, *Sixth International Congress of Logic, Methodology and Philosophy of Science*, Hannover, 1979.
6. Member, Council of the *Association for Symbolic Logic*, 1978-81.
2. Member Advisory Panel, History and Philosophy of Science Program, *National Science Foundation* 1979-1982.
3. Eastern Division Representative, *American Philosophical Association*, 1983-1986.
4. Assessor, Division of Logic, Methodology, and Philosophy of Science, *International Union for History and Philosophy of Science*, 1983-1987.
5. Member of U.S. National Committee, *International Union for History and Philosophy of Science* 1984-1987.
6. Chairman, Committee on Committees, *American Philosophical Association*, 1985.
7. Member, Liaison subcommittee, *American Philosophical Association - Philosophy of Science Association*, 1985-86.
14. Member, Ministerial commission on philosophical research in the Netherlands, Netherlands Ministry of Education, 1986/87.
15. Member, Board of Advisors, *The Cambridge Dictionary of Philosophy*, 1988 -.
16. Member of Governing Board, *Evert Willem Beth Stichting* (The Netherlands), 1989-.
17. President, *Philosophy of Science Association*, 1990-1992.
18. Member, Governing Board, *Philosophy of Science Association*, 1992-1994.
19. Member, Advisory Committee to the Program Committee, Eastern Division, *American Philosophical Association*, 1996-9.
20. Member, Oxford-Princeton Philosophy of Physics Project, 2001-
21. Member, QANU committee on philosophical research in the Netherlands, 2005.
22. Member, International Advisory Board, Descartes Centre, University of Utrecht, 2007-
22. Co-organizer, Bay Area Philosophy of Science Group, 2008 -.

## **Campus Activities**

### non-departmental

- 1984-85 Humanities Council Curriculum Committee  
 1984-86 Coordinator, Humanities Faculty Seminar on Interpretation (Topics: Benjamin and Adorno)  
 1986-96 Member, Interdepartmental Committee for Cognitive Studies  
 1997-8 Old Dominion Fellow

### departmental

In recent years I have served on or chaired the following committees:  
 Graduate Studies Committee, Course Allocation Committee, Appointments Committee, Library Committee, Undergraduate Course Committee



### III. PUBLICATIONS

#### Books

##### Monographs

*An Introduction to the Philosophy of Time and Space*, Random House, New York 1970.

- Spanish Translation, Barcelona (Editorial Labor, S.A.), tr. J-P.A. Goicoechea, 1978.
- Second edition, with new preface and postscript. Columbia University Press, 1985.

*Formal Semantics and Logic*, Macmillan, New York 1971.

- Spanish Translation, Mexico (Universitat Nacional Autonoma de Mexico), tr. J.A. Robles, 1987.

*The Scientific Image*, Oxford University Press 1980.

- Italian Edition, with new preface, Bologna 1985.
- Japanese Edition, with new preface, Tokyo 1987.
- Spanish Edition, Mexico City and Barcelona, 1996.
- Chinese Edition, Shanghai, 2002
- Portuguese Edition, *A Imagem Científica* tr. L. H. de Araújo Dutra. Sao Paulo: Editora UNESP, 2007.
- Greek Edition, scheduled for fall 2007.
- Korean Edition, The National Research Foundation of Korea, scheduled for 2012.

*Empirismus in XX Jahrhundert*; course text, Fernuniversitaet, Hagen (Germany) 1984.

*Laws and Symmetry*, Oxford University Press 1989.

- French translation and introduction by C. Chevalley. Paris: Vrin, 1994.

*Quantum Mechanics: An Empiricist View*, Oxford University Press, 1991.

*The Empirical Stance*. New Haven: Yale University Press, 2002.

*Scientific Representation: Paradoxes of Perspective*. Oxford: Oxford University Press, 2008.

##### Co-authored Books

*Derivation and Counterexample* (with K. Lambert), Dickenson, Encino, CA 1972.

- Chinese Translation, Taiwan 1975.
- Revision: E. Bencivenga, K. Lambert, and B. van Fraassen, *Logic, Bivalence and Denotation*. Atascadero, CA: Ridgeview Pub. Co. 1986.

*Possibilities and Paradox: An Introduction to Modal and Many-Valued Logic*. (with JC Beall)  
Oxford: Oxford University Press, 2003.

##### Edited Books

- *Current Issues in Quantum Logic*, edited jointly with E. Beltrametti, New York: Plenum Press 1981.

- *Existence and Explanation*, ed. jointly with W. Spohn and B. Skyrms. Dordrecht: Kluwer, 1991.
- *Topics in the Foundation of Statistics*, ed. Dordrecht: Kluwer, 1997.

### **Collections of Articles on my Work**

- Churchland, P.M. and C.A. Hooker (eds.) *Images of Science: Essays on Realism and Empiricism, with a Reply by Bas C. van Fraassen*. University of Chicago Press, 1985.
- Berg-Hildebrand, Andreas and Christian Suhm (2006) *Bas C. van Fraassen, The Fortunes of Empiricism*. Frankfurt: ontosverlag. (Collection of articles with my replies).
- Monton, Bradley (ed.) *Images of Empiricism: Essays on Science and Stances, with a Reply from Bas van Fraassen* Oxford University Press, 2007
- Rowbottom, Darrell P. and Otavio Bueno (eds.) *Stance and Rationality: A Perspective*. Special Issue *Synthese* 178, #1 (2011)
- Gonzalez, W. J. (ed.), *Bas van Fraassen's Approach to Representation and Models in Science*. Dordrecht: Springer Verlag, 2014.

### **Published Articles**

#### **[1962]**

1. "Capek on Eternal Recurrence", *Journal of Philosophy* 59 (1962), pp. 371-375.
2. "Singular Terms, Truth-Value Gaps and Free Logic", *Journal of Philosophy* 63 (1966), pp. 481-495.
3. "The Completeness of Free Logic", *Zeitschrift für Mathem Logik und Grundlagen der Mathematik* 12 (1966): 219-234.
4. "A Note on Bacon's Alternative to Russell", *Philosophical Studies* 18 (1967), pp. 47-48.
5. "Meaning Relations among Predicates", *Nous* 1 (1967), pp. 160-179.
6. "On Free Description Theory" (with Karel Lambert), *Zeitschrift für Mathem. Logik und Grundlagen der Mathematik* 13 (1967), 225-240.
7. "Presupposition, Implication, and Self-Reference", *Journal of Philosophy* 65 (1968), pp. 136-152.
8. Review: R. Carnap, The Logical Structure of the World, *Philosophy of Science* 35 (1968), pp. 298-299.
9. "A Topological Proof of the Lowenheim-Skolem, Compactness, and Strong Completeness Theorems for Free Logic", *Zeitschrift für Math. Logik und Grundlagen der Mathematik* 14 (1968), pp. 245-254.
10. "Philosophy of Science" (with H. Margenau), *Contemporary Philosophy/La Philosophie Contemporaine*, ed. R. Klibansky (Firenze, 1968), 25-30.
11. "Causality" (with H. Margenau) -- *Ibid.*, pp. 319-328.
13. "Logical Structure in Plato's Sophist", *Review of Metaphysics* 22 (1969), pp. 482-498.
14. "Conventionality in the Axiomatic Foundations of the Special Theory of Relativity", *Philosophy of Science* 36 (1969), pp. 64-73.
15. "Meaning Relations and Modalities", *Nous* 3 (1969), pp. 155-167.

16. "Presuppositions, Supervaluations, and Free Logic", in K. Lambert (ed.), *The Logical Way of Doing Things*, New Haven: Yale University Press (1969), pp. 67-91.
17. "Facts and Tautological Entailments", *Journal of Philosophy* 66 (1969), pp. 477-487.
18. "Compactness and Lowenheim-Skolem Proofs in Modal Logic", *Logique et Analyse* 12 (1969), pp. 167-178.

### [1970]

19. "On the Extension of Beth's Semantics of Physical Theories", *Philosophy of Science* 37 (1970), pp. 325-334.
20. "Meaning Relations, Possible Objects, and Possible Worlds" (with K. Lambert), in K. Lambert (ed.), *Philosophical Problems in Logic* (Reidel, 1970), pp. 1-20.
21. "On Massey's Explication of Grunbaum's Conception of Metric", *Philosophy of Science* 36 (1969), pp. 346-353.
22. "Truth and Paradoxical Consequences" in R. Martin (ed.), *The Paradox of the Liar* (New Haven: Yale University Press 1970), pp. 13-23.
23. "Rejoinder: On a Kantian Conception of Language", *Ibid.*, pp. 59-66.
24. "Inference and Self-Reference", *Synthese* 21 (1970), pp. 425-438.
25. "Probabilities and the Problem of Individuation" in S. Luckenbach (ed.), *Probabilities, Problem and Paradoxes* (Encino, California: Dickenson 1972), pp. 121-138.
26. "A Formal Approach to the Philosophy of Science" in R. Colodny (ed.), *Paradigms and Paradoxes: The Philosophical Challenge of the Quantum Domain*, (Pittsburgh: University of Pittsburgh Press, 1972), pp. 303-366.
27. "The Labyrinth of Quantum Logics", *Boston Studies in Philosophy of Science* 13 (1972), pp. 224-254.
28. "Earman on The Causal Theory of Time", *Synthese* 24 (1972), pp. 87-95; also in P. Suppes (ed.), *Space, Time and Geometry* (Reidel 1973).
29. "The Logic of Conditional Obligation", *Journal of Philosophical Logic* 1 (1972), pp. 417-438.
30. "Values and the Heart's Command", *Journal of Philosophy* 70 (1973), p. 5-19.
31. "Extension, Intension, and Comprehension", in *Logic and Ontology*, ed. M. Munitz (New York University Press, 1973).
32. "The Formal Representation of Physical Quantities", *Boston Studies in Philosophy of Science* 13 (1974), pp. 196-209.
33. "Putnam on the Corroboration of Theories", *The Structure of Scientific Theories*, ed. F. Suppe (Urbana: University of Illinois Press 1974), pp. 434-436.
34. "The Einstein-Podolski-Rosen Paradox", *Synthese* 29 (1974), pp. 291-309.
35. "Theoretical Entities: The Five Ways", *Philosophia* 4 (1974), pp. 95-109.
36. "Bressan and Suppes on Modality" in K.F. Schaffner and R.S. Cohen (eds.), *PSA 1972* (Reidel Publishing Co., 1974).
37. "Semantic Analysis of Quantum Logic", pp. 80-113 in C.A. Hooker (ed.), *Contemporary Research in the Foundations and Philosophy of Quantum Theory* (Dordrecht: Reidel, 1973).
38. "Hidden Variables in Conditional Logic", *Theoria* 40 (1974), pp. 176-190.
39. Review: Hide Ishiguro, Leibniz' Philosophy of Logic and Language. *Dialogue* 13 (1974), pp. 185-189.

**[1975]**

40. "Incompleteness Assertion and Belnap Connectives", *Contemporary Research in Philosophical Logic and Linguistic Semantics*, ed. D. Hockney and W. Harper (Reidel Publishing Co., 1975), pp. 43-70.
41. "Lakoff's Fuzzy Propositional Logic" (location of 38, pp. 273-278).
42. "Critical Notice: Hilary Putnam, Philosophy of Logic", *Canadian Journal of Philosophy* 4 (1975), pp. 731-743.
43. "Theories and Counterfactuals", pp. 237-263 in *Action, Knowledge and Reality*, ed. H.N. Castaneda (Bobbs-Merrill Co., 1975).
44. "Platonism's Pyrrhic Victory", in A.L. Anderson, et al. (eds.), *The Logical Enterprise* (New Haven: Yale University Press 1975), pp. 39-50.
45. "Probabilities of Conditionals", in W. Harper and C.A. Hooker (eds.) *Foundations of Probability and Statistics*, Volume I (Reidel, 1975), pp. 261-308.
46. "Wilfrid Sellars on Scientific Realism", *Dialogue* 14 (1975), pp. 606-616.
47. "A Semantic Analysis of Bohr's Philosophy of Quantum Mechanics" (jointly with C.A. Hooker) in Harper, W.L. and C.A. Hooker (eds.), *Foundations of Probability and Statistics*, Volume 3 (Dordrecht: Reidel, 1975), pp. 222-241.
48. "Report on Conditionals" *Teorema* 6 (1976), pp. 5-25.
49. "Representation of Conditional Probabilities", *Journal of Philosophical Logic* 5 (1976), pp. 417-430. (Erratum: 6(1977), 365).
50. "To Save the Phenomena", *Journal of Philosophy* 73 (1976), pp. 623-632.
51. "The Only Necessity is Verbal Necessity", *Journal of Philosophy* 74 (1977), pp. 71-85.
52. Review: Wilfred Sellars, *Essays in Philosophy and its History*, *Annals of Science* 34 (1977), pp. 73-77.
53. "The Pragmatics of Explanation", *American Philosophical Quarterly* 14 (1977), pp. 143-150.
54. "Relative Frequencies", *Synthese* 34 (1977), pp. 133-166.
55. "On the Radical Incompleteness of the Manifest Image (Comments on Sellars)", pp. 335-343 in F. Suppe and P. Asquith, eds., *PSA 1976*, Volume II (Philosophy of Science Association, East Lansing, 1977), pp. 335-343.
56. "Essence and Existence", *American Philosophical Quarterly Monograph Series* No. 12 (1978).
57. Review: Wolfgang Stegmüller, *Personnelle und Statistische Wahrscheinlichkeit*, *Philosophy of Science* 45 (1978), pp. 158-163.
58. "Time, Physical and Experiential", *Epistemologia* 1 (1978), pp. 323-338.
59. "Foundations of Probability: A Modal Frequency Interpretation", in G. Toraldo di Francia (ed.), *Problems in the Foundations of Physics*, pp. 344-394. Amsterdam: North-Holland Pub. Co. 1979.
60. "On Carnap and Popper Probability Functions" (with Hughes Leblanc), *Journal of Symbolic Logic* 44 (1979), pp. 369-373.
61. "Hidden Variables and the Modal Interpretation of Quantum Mechanics", *Synthese* 42 (1979), pp. 155-165.
62. "Propositional Attitudes in Weak Pragmatics", *Studia Logica* 38 (1979), pp. 365-374.
63. "Modality" in H. Kyburg (ed.), *Current Research in Philosophy of Science* (Philosophy of Science Association 1979).
64. "Russell's Philosophical Account of Probability", in G.W. Roberts (ed.), *Bertrand Russell Memorial Volume* (London: Allen and Unwin, 1979), pp. 384-413.

**[1980-]**

65. "A Temporal Framework for Conditionals and Chance", *Philosophical Review* 89 (1980), pp. 91-108.
66. "A Re-examination of Aristotle's Philosophy of Science", *Dialogue* 19 (1980), pp. 20-45.
67. "Rational Belief and Probability Kinematics", *Philosophy of Science*, Vol. 47, June 1980, pp. 165-187.
68. "Critical Study: Brian Ellis, Rational Belief Systems", *Canadian Journal of Philosophy*, 10 (1980), 497-511.
69. "Assumptions and Interpretations of Quantum Logic" in *Current Issues in Quantum Logic*, (1981).
70. "A Modal Interpretation of Quantum Mechanics" in *Current Issues in Quantum Logic* (1981).
71. "Critical Study: Paul Churchland, Scientific Realism and the Plasticity of Mind, *Canadian Journal of Philosophy*, 11 (1981), 555-567.
72. "Probabilistic Semantics Objectified, I", *Journal of Philosophical Logic*, 10 (1981), 371-394; Part II, 10(1981), 495-510.
73. "Essences and Laws of Nature", in R. Healey (ed.), *Reduction, Time and Reality*, Cambridge University Press (1981), pp. 189-200.
74. "Discussion: A Problem for Relative Information Minimizers in Probability Kinematics", *British Journal for the Philosophy of Science* 32 (1981), 375-379.
75. "Rational Belief and the Common Cause Principle", 193-209 in R. McLaughlin (ed.), *What? Where? When? Why? Essays in honour of Wesley Salmon* (Dordrecht: Reidel, 1982).
77. "The Charybdis of Realism: Epistemological Implications of Bell's Inequality", *Synthese* 52 (1982), 25-38.
78. "Quantification as an Act of Mind", *Journal of Philosophical Logic* 11 (1982), 343-369.
79. "Epistemic Semantics Defended", *Journal of Philosophical Logic* 11 (1982), 463-464.
80. "Gentlemen's Wagers: Relevant Logic and Probability" *Philosophical Studies* 43 (1983), 47-61.
81. "Calibration: A Frequency Justification for Personal Probability", pp. 295-319 in R.S. Cohen and L. Laudan (eds.) *Physics, Philosophy, and Psychoanalysis* (Dordrecht: Reidel, 1983).
82. "Theory Confirmation: Tension and Conflict", pp. 319-329 in *Epistemology and Philosophy of Science: Proceedings of the Seventh International Wittgenstein Symposium* (Vienna: Hoelder-Pichler-Tempsky, 1983).
83. "Shafer on Conditional Probabilities", *Journal of Philosophical Logic* 12 (1983), pp. 467- 470.
84. "Sulla realta' degli entimatici" pp. 90-110 in Proceedings of the Conference on Levels of Reality, Florence 1978: M. Piatelli-Palmerini (ed.) *Livelli di Realtà*. Milano: Feltrinelli, 1984.
85. "On Characterizing Popper and Carnap Probability Functions" (with W. L. Harper and H. Leblanc in H. Leblanc, R. Gumb, and R. Stern (eds.) *Essays in Epistemology and Semantics*. New York: Haven Publications, 1984.
86. "Theory Comparison and Relevant Evidence" pp. 27-42 in J. Earman (ed.), *Testing Scientific Theories*. Minnesota Studies in the Philosophy of Science, Vol.X. Minneapolis: University of Minnesota Press, 1983.

87. "Glymour on Evidence and Explanation", pp. 165-176 in J. Earman (ed.), *Testing Scientific Theories*. Minnesota Studies in the Philosophy of Science, Vol.X. Minneapolis: University of Minnesota Press, 1983.
88. "Belief and the Will" *Journal of Philosophy* 81 (1984), pp. 235-256.
89. "The Problem of Indistinguishable Particles" in J.T. Cushing, C.F. Delaney, G.M. Gutting (eds.) *Science and Reality: Recent Work in the Philosophy of Science*. Notre Dame: University of Notre Dame Press, 1984.

**[1985]**

90. (with R.I.G. Hughes) "Symmetry Arguments in Probability Kinematics" in P. Kitcher and P. Asquith (eds.) *PSA 1984*, vol. 2, pp. 851-869. East Lansing, Mich.: Philosophy of Science Association, 1985.
91. "Statistical Behaviour of Indistinguishable Particles" in P. Mittelstaedt and E-W. Stachow (eds.) *Recent Developments in Quantum Logic*. Zurich, 1985.
92. "Empiricism in the Philosophy of Science" pp. 245-308 in P.M. Churchland and C.A. Hooker (eds.) *Images of Science: Essays on Realism and Empiricism, with a Reply by Bas C. van Fraassen*. University of Chicago Press, 1985.
93. "Salmon on Explanation", *Journal of Philosophy* 82 (1985), pp. 639-651.
94. "A Demonstration of the Jeffrey Conditionalization Rule", *Erkenntnis* 24 (1986), 17-24.
95. "On the Question of Identification of a Scientific Theory" (Reply to Perez Ransanz), *Critica* 17 (1985), 21-25.
96. "EPR: When is a Correlation not a Mystery", pp. 113-128 in P. Lahti and P. Mittelstaedt (eds.) *Symposium on the Foundations of Modern Physics: 50 Years of the Einstein-Podolsky-Rosen Experiment*. Singapore: World Scientific, 1985.
97. "Aim and Structure of Scientific Theories", pp. 307-318 in *International Congress of Logic, Methodology, and Philosophy of Science VII: 1983 (Salzburg)* [= *Studies in Logic and the Foundations of Mathematics, Volume 114*] ed. R.B. Marcus, G. Dorn, and P. Weingartner. Amsterdam: North-Holland Pub. Co., 1986.
98. "Que son las leyes de la naturaleza?", *Dianoia* 31 (1985), pp. 211-262 (appeared in 1986).
99. "The World We Speak Of, and the Language We Live In", pp. 213-221 in *Philosophy and Culture: Proc. of the XVII-th World Congress of Philosophy (Montreal, 1983)*. Montreal: Editions du Beffroi, 1986.
100. "A Problem for Relative Information Minimizers in Probability Kinematics, Continued" with R.I.G. Hughes and G. Harman, *British Journal for the Philosophy of Science* 37(1986), 453-475.
101. "Symmetries in Personal Probability Kinematics" in N. Rescher (ed.) *Scientific Inquiry in Philosophical Perspective*. Lanham, MD: University Press of America, 1987, pp. 183-224.
102. "Armstrong on Laws and Probabilities", *Australasian Journal of Philosophy*, 65 (1987), 243-260.
103. "The Semantic Approach to Scientific Theories" pp. 105-124 in N.J. Nersessian (ed.) *The Process of Science*. Dordrecht: Martinus Nijhoff, 1987.
104. "Simmetrie e cinematica della probabilita personale" in M. C. Galavotti and G. Gambetta (eds.), *Epistemologica ed Economia*. Bologna: CLUEB, 1988, pp. 21-42.
105. "Identity in Intensional Logic: Subjective Semantics" *Versus* 44/45 (1986), 201-219 (appeared in 1988).

106. "The problem of old evidence", pp. 153-165 in David F. Austin (ed.), *Philosophical Analysis* (Dordrecht: Reidel, 1988).
107. "Symmetry Arguments in Science and Metaphysics", pp. 385-409 in W. Deppert (ed.), *Exact Sciences and Their Philosophical Foundations* (Frankfurt: Verlag Peter Lang, 1988).
108. "The Peculiar Effects of Love and Desire", pp. 123-156 in Perspectives on Self-Deception, ed. A. Rorty and B. McLaughlin (Berkeley: University of California Press, 1988).
109. "Die Pragmatik des Erklärens", pp. 31-89 in Gerhard Schurz (ed.) *Erklären und Verstehen* (Muenchen: Oldenbourg, 1988) - Part I, pp. 31-56 is new; Part II is a reprint of part of Ch. 5 of *The Scientific Image*.
110. "On Explanation in Physics" pp. 109-113 in J. Cushing and E. McMullen, (eds.), *The Philosophical Consequences of Quantum Mechanics*, University of Notre Dame Press, 1989. Printed as Appendix to a reprint of "The Charybdis of Realism" (# 74 above).
111. "Probabilities in physics: an empiricist view", pp. 339-347 in P. Weingartner and G. Schurz (eds.) *Philosophy of the Natural Sciences*, Vienna: Hoelder-Pichler-Tempsky, 1989 (proceedings of the XIIIth Wittgenstein Conference, Kirchberg 1988).

#### [1990-]

112. "Figures in a Probability Landscape", pp. 345-356 in Dunn, M. and Gupta, A. (eds.) *Truth or Consequences*. Dordrecht: Kluwer, 1990.
- 112a. Review of W. V. O. Quine, *Pursuit of Truth*. *Times Literary Supplement*, August 10-16, 1990.
113. "Time in physical and narrative structure", pp. 19-37 in J. Bender and D. E. Wellbery (eds.) *Chronotypes: The Construction of Time*. Stanford: Stanford University Press, 1991.
114. "The modal interpretation of quantum mechanics", pp. 440-460 in P. Lahti and P. Mittelstaedt (eds.), *Symposium on the Foundations of Modern Physics 1990*. Singapore: World Publishing Co. 1991.
115. "The problem of measurement in quantum mechanics", pp. 497-503 in P. Lahti and P. Mittelstaedt (eds.), *Symposium on the Foundations of Modern Physics 1990*. Singapore: World Publishing Co. 1991.
116. "On (Ix)(x = Lambert)" in W. Spohn, B. van Fraassen, and Brian Skyrms (eds.) *Existence and Explanation*. Dordrecht: Kluwer, 1991, pp. 1-18.
117. "The Geometry of Opinion: Jeffrey Shifts and Self-Adjoint Operators", *Philosophy of Science* 59 (1992), 163-175.
118. "La credenza e il problema di Ulisse e le Sirene", pp. 77-106 in A. E. Galeotti (ed.) *Individui e Istituzioni*. Torino: La Rosa Editrice, 1992.
119. "La Meccanica Quantistica: uno spettro di interpretazioni", *Iride* 7 (1991), 28-50.
120. "Faire figure dans un monde probabiliste" (translation of a modified version of #108), 307-322 in Daniel Laurier and Francois Lepage (eds.), *Essais sur le Langage et l'Intentionnalité*. Montreal: Bellarmin, 1992; Paris: Vrin, 1992.
121. "Three-sided scholarship: Comments on the paper of John R. Donahue, S.J.", pp. 315-325 in E. Stump and T. P. Flint (eds.), *Hermes and Athena: Biblical Exegesis and Philosophical Theology*. Notre Dame: University of Notre Dame Press, 1993.
122. "Despues del fundacionismo: entre el círculo vicioso y el regreso al infinito", *Diánoia* 38 (1992), 217-240. ("Afterfoundationalism: between vicious circle and infinite regress", Proceedings of the XI Simposio de Filosofia del Instituto de Investigaciones

Filosóficas, Taxco, Mexico, Aug 1992.) [note: this appeared in 1993; it overlaps 3/4 of item 125.]

123. "Armstrong, Cartwright, and Earman on Laws and Symmetry", *Phenomenology and Philosophical Research*, 53 (1993), 431-444.
124. "Interpretation in Science and in the Arts" (with Jill Sigman), pp. 73-99 in G. Levine (ed.) *Realism and Representation*. Madison: University of Wisconsin Press, 1993.
125. "From vicious circle to infinite regress, and back again"; pp. 6-29 in D. Hull, M. Forbes, and K. Ohkruhlik (eds.) *PSA 1992*, Vol. 2 (proceedings of the Philosophy of Science Association Conference, Nov. 1992) Northwestern University Press, 1993.
126. "Gideon Rosen on constructive empiricism", *Philos. Studies* 74 (1994), 179-192.
127. "Against Transcendental Empiricism", pp.309-335 in T. J. Stapledon (ed.) *The Question of Hermeneutics*. Dordrecht: Kluwer, 1994.
128. "The World of Empiricism", pp. 114-134 in Jan Hilgevoort (ed.) *Physics and Our View of the World*. Cambridge University Press, 1994.
129. "Interpretation of science: science as interpretation", pp. 169-187 in Jan Hilgevoort (ed.) *Physics and Our View of the World*. Cambridge University Press, 1994.
130. "Interpretation of QM: Parallels and Choices", pp. 7-14 in L. Accardi (ed.) *The Interpretation of Quantum Theory: Where Do We Stand?*. Rome: Istituto della Enciclopedia Italiana (distributed Fordham University Press), 1994.

#### [1995-]

131. "Belief and the problem of Ulysses and the Sirens", *Philos. Studies* 77 (1995), 7-37 (this paper overlaps "La credenza e il problema di Ulisse e le Sirene" above).
132. "A philosophical approach to the foundations of science", *Foundations of Science* 1 (1995/96), 5-9.
133. Little review of S. Shapin, A Social History of Truth, *Common Knowledge* 4 (1995), 81-82.
134. "Against Naturalized Empiricism", pp. 68-88 in P. Leonardi and M. Santambrogio (eds.) *On Quine*. Cambridge Univ. Press, 1995.
135. "Fine-grained opinion, conditional probability, and the logic of belief", *Journal of Philosophical Logic*, 24 (1995), 349-377.
136. "'World' is not a count noun", *Nous* 29 (1995), 139-157.
137. "Science, probability, and the proposition", *PSA94*, vol. 2, pp. 339-348. East Lansing, MI: Philosophy of Science Association, 1995.
138. "Science, Materialism, and False Consciousness", pp. 149-181 in Jonathan Kvanvig (ed.) *Warrant in Contemporary Epistemology: Essays in Honor of Alvin Plantinga's Theory of Knowledge*. Rowman Littlefield, 1996.
139. "Structure and perspective: philosophical perplexity and paradox", pp. 511-530 in M. L. Dalla Chiara et al. (eds.) *Logic and Scientific Methods*. Vol 1. Dordrecht: Kluwer, 1997.
140. "Elgin on Lewis' Putnam's Paradox", *Journal of Philosophy* 94 (1997), 85-93.
141. "Probabilité conditionnelle et certitude" (revised version of "Fine-grained opinion, conditional probability, and the logic of belief", 1995), *Dialogue* 36 (1997), 69-90.
142. "Comments on Peter Roeper's 'The link between probability functions and logical consequence'", *Dialogue* 36 (1997), 27-31.
143. (with James Ladyman, Igor Douven, and Leon Horsten) "A Defence of van Fraassen's Critique



- of Abductive Reasoning: Reply to Psillos", *Philosophical Quarterly* 47 (1997), 305-321.
144. "Putnam's Paradox: Metaphysical Realism Revamped and Evaded", *Philosophical Perspectives*, vol. 11 (Boston: Blackwell, 1997), pp. 17-42.
145. "Modal interpretation of repeated measurement: reply to Leeds and Healey", *Philosophy of Science* 64 (1997), 669-676.
- 145a. "Sola experientia? Feyerabend's Refutation of Classical Empiricism", *Philosophy of Science* 64 (1997), S385-S395.
146. "Frequency and the Myth of Probability", pp. 55-67 in H. Poser and U. Dirks, *Hans Reichenbach: PhilosophieimUmkreis der Physik*. Berlin: AkademieVerlag, 1998.
146. "The agnostic subtly probabilified", *Analysis* 58 (1998), 212-220.
147. Review: J. Bub, *Interpreting the Quantum World*. *Foundations of Physics* 28 (1998), 683-689.
148. "A Response: Haldane on the future of philosophy", *New Blackfriars* 80 (1999), 177-181.
149. "The Manifest Image and the Scientific Image", pp. 29-52 in D. Aerts (ed.). *Einstein Meets Magritte: The White Book -- An Interdisciplinary Reflection*. Dordrecht: Kluwer, 1999.
150. "Conditionalization, A New Argument For", *Topoi* 18 (1999), 93-96.

#### [2000-]

152. "The False Hopes of Traditional Epistemology", *Philosophy and Phenomenological Research* 60 (2000), 253-280.
153. "The theory of tragedy and of science: does nature have narrative structure?" pp. 31-59 in D. Sfendoni-Mentzou (ed.) *Aristotle and Contemporary Science, vol 1*. New York: Peter Lang, 2000.
154. "How is scientific revolution/conversion possible?", *Proceedings of the American Catholic Philosophical Association* 73 (1999 -- appeared in 2000), 63-80.
155. "The sham victory of abstraction" (Review of Feyerabend, *Conquest of Abundance*), *Times Literary Supplement* 5073: June 23, 2000, 10-11.
156. "La fin de l'empirisme?" *Revue Philosophique de Louvain* 98 (2000), 449-479.
157. "Michel Ghins on the empirical vs. the theoretical", *Foundations of Physics* 30 (2000), 1655-1661.
158. "Constructive Empiricism Now", *Philosophical Studies* 106 (2001), pp. 151-170.
159. "Literate Experience: The [De-, Re-] Interpretation of Nature", *Versus* 85/86/87 (2000), 331-358 (published in 2002).
160. "On McMullin's Appreciation of Realism Concerning the Sciences", *Philosophy of Science* 70 (2003), 479-492.
161. "Constructive Empiricism and Modal Nominalism" (with Bradley Monton), *British Journal for the Philosophy of Science*, 54 (2003), pp. 405-422.
162. "Symmetry as a guide to superfluous theoretical structure" (with Jenann Ismael), in *Symmetries in Physics: Philosophical Reflections*. Ed. Katherine Brading and Elena Castellani. Cambridge: Cambridge University Press, 2003.
163. "Transcendence of the Ego: *The Non-Existent Knight*", *Ratio* (new series) XVII (2004), 453-477.
164. "Précis" and "Replies" in book symposium on *The Empirical Stance*. *Philosophical Studies* 121 (2004), 127-132 and 171-192.
165. "Science as Representation: Flouting the Criteria", *Philosophy of Science* 71 (2004), 794-804.

**[2005-]**

166. "Conditionalizing on violated Bell's inequalities", *Analysis* 65.1 (Jan 2005), pp. 27-32.
167. "Appearance versus Reality as a Scientific Problem", *Philosophic Exchange* 35 (2005), 34-67.
168. "The Day of the Dolphins: Puzzling Over Epistemic Partnership", pp. 111- 133 in A. Irvine and K. Peacock, eds., *Mistakes of Reason: Essays in Honour of John Woods*. University of Toronto Press, 2005.
169. "Wouldn't It Be Lovely? Explanation and Scientific Realism", Review Symposium for Lipton, *Inference to the Best Explanation*, 2<sup>nd</sup> ed. *Metascience*14 (2005), 344-352.
170. "Vague Expectation Loss", *Philosophical Studies*127 (2006), 483–491.
171. "Weyl's paradox: the distance between structure and perspective", pp. 13-34 in Andreas Berg-Hildebrand and Christian Suhm (eds.), *Bas C. van Fraassen: The Fortunes of Empiricism*. Frankfurt: ontosverlag, 2006.
172. "Replies", pp. 125-171 in *ibid*.
173. "One Hundred and Fifty Years of Philosophy", *Topoi* 2006, 123-127.
174. « Le des Entités Inobservables » in *Science et Avenir, Hors-Série : Les fictions de la science*, n°147, juillet/août 2006.
175. "Structure: its Shadow and Substance", *The British Journal for the Philosophy of Science* 57 (2006), 275-307.
176. "Le quasi-réalisme de Schrödinger". Review of M. Bitbol, *Schrödinger's Philosophy of Quantum Mechanics*. *Science et Avenir, Hors-Série*148 (Oct/Nov 2006), p. 80.
177. "Representation: the Problem for Structuralism", *Philosophy of Science* 73 (2006), pp. 536-547.
178. "Structuralism(s) About Science: Some Common Problems", *Proceedings of the Aristotelian Society* Supplementary Volume LXXXI(2007), pp. 45-61.
179. "The Constitutive A Priori" Review of Ryckman, *The Reign of Relativity*. *Metascience*16 (2007), pp. 407-419.
180. "REPLY: From a view of science to a new empiricism" in Bradley Monton (ed.), *Images of Empiricism: Essays on Science and Stances, with a Reply from Bas van Fraassen*. Oxford University Press, 2007. <NSF supported>
181. "Representation and Perspective in Science". *Principia* 11(2007), 97-116.
182. "Identity over Time: Objectively, Subjectively", with I. Peschard. *Philosophical Quarterly* 58 (2008), pp. 15-35.
183. "How to Talk about Unobservables" (with F. A. Muller), *Analysis*68 (2008), 197–205.
184. "Sloughs Of Despond, Mountains Of Joy" *Critical Quarterly* 50: 4 (Dec. 2008) , 74-87.
185. Review: Graham Oppy, *Philosophical Perspectives on Infinity*. *International Philosophical Quarterly* 48/2 (June 2008), pages 257-258.
186. "Rescher on Explanation and Prediction", in Robert Almeder (Ed.) *Rescher Studies: A Collection of Essays on the Philosophical Work of Nicholas Rescher Presented to Him on the Occasion of His 80th Birthday*. OntosVerlag, 2009.
187. Review: Talal A. Debs and Michael G. Redhead, *Objectivity, Invariance, and Convention: Symmetry in Physical Science*. *Studies in the History and Philosophy of Modern Physics*40 (2009): 84–87
188. "The Perils of Perrin, at the hands of philosophers" *Philosophical Studies* 143 (2009): 5-

24. <NSF supported>
189. “Can empiricism leave its realism behind?” pp. 457-480 in Michel Bitbol, Pierre Kerszberg, and Jean Petitot (eds.) *Constituting Objectivity: Transcendental Approaches Of Modern Physics*. <NSF supported> Springer Pub Co. 2009.
190. “The Representation of Nature in Physics: A Reflection on Adolf Grünbaum's Early Writings”, pp. 305-349 in Jokic, A. (ed.) *Philosophy of Physics and Psychology: Essays in Honor of Adolf Grünbaum*. Amherst, NY: Prometheus Books, 2009.

[2010-]

191. “Rovelli’s World”. *Foundations of Physics* 40(2010): 390-418. <NSF supported>
192. “Scientific Representation: Paradoxes of Perspective(Precis)”, *Analysis* 70 (2010) : 511-514
193. “Reply to Contessa, Ghins, and Healey”, *Analysis* 70 (2010): 547-556
194. “Precis of Scientific Representation: Paradoxes of Perspective” *Philosophical Studies* 150 (2010): 425-428.
195. “Reply to Belot, Elgin, and Horsten” *Philosophical Studies* 150 (2010): 461-472.
196. “On Stance and Rationality”. (Reply to contributors) *Synthese* 178 (2011): 155-169.
197. “Thomason's paradox for belief, and two consequence relations”, *Journal of Philosophical Logic* 40 (2011): 15–32.
198. “What Was Perrin’s Real Achievement?” pp. 231-246 (with reply by Achinstein pp. 294-296) in Gregory Morgan (ed.) *Philosophy of Science Matters: The Philosophy of Peter Achinstein*. Oxford University Press 2011.
199. Contribution to book symposium “The physics and metaphysics of identity and individuality” for S. French and D. Krause, *Identity in physics*. *Metascience* 20 (2011): 225-251.
200. “A Long Journey from Pragmatics to Pragmatics (Response to Bueno, Ladyman, and Suarez)”, *Metascience* 20 (2011): 417-442
201. “Logic and the Philosophy of Science”, *Journal of the Indian Council of Philosophical Research* 27 (2010), #2: 45-65. (Appeared in 2011.)
202. “La logique et le moi: la pensée occidentale des après-crisis”, *Diogenes* 232 (Oct 2010): 28-40, with Chinese translation *Diogenes* 55 (2012): 45-59; English version: “Logic and the Self: After Certain Crises in Western Thought” *Diogenes* 58 (4).
203. “Otte on Hypotheses in Science and Religion”, pp. 99-106 in Kelly Clark and Michael Rae (eds.) *Reason, Metaphysics, and Mind: New Essays on the Philosophy of Alvin Plantinga*. New York: Oxford University Press 2012.
204. “Modeling and measurement: the criterion of empirical grounding”, *Philosophy of Science* 79 (2012): 773-784. <NSF supported>
205. “Explanation through Representation, and its Limits”, *Epistemologia* XXXV (2012): 30-46 and reprinted as pp. 19-32 in E. Agazzi (ed.) *Representation and Explanation in the Sciences (e-book, Franco Angeli 2013)* <NSF supported>
206. “Scientific Realism And The Empiricist Challenge: An Introduction To Ernan McMullin’s Aquinas Lecture”, *Zygon* 48 (2013): 131-142
207. “The Criterion of Empirical Grounding in the Sciences”, pp. 79-100 in Gonzalez, W. J. (ed), *Bas van Fraassen’s Approach to Representation and Models in Science*. Dordrecht: Springer Verlag, 2014. <NSF supported>
208. “Values, Choices, and Epistemic Stances”, pp. 189-212 in Gonzalez, W. J. (ed), *Bas van Fraassen’s Approach to Representation and Models in Science*. Dordrecht: Springer 2014.

209. "One or two gentle remarks about Halvorson's critique of the semantic view". *Philosophy of Science* 81 (2014): 276-283.
210. "Making the Abstract Concrete: The Role Of Norms And Values In Experimental Modeling" (with Isabelle Peschard) *Studies in History and Philosophy of Science* 46 (2014): 3-10. <NSF supported>

**[2015 -]**

211. "Against Naturalism in Epistemology", pp. 63-96 in R. N. Williams and D. N. Robinson, *Scientism: The New Orthodoxy*. New York: Bloomsbury Publishing, 2015.
212. "Updating Probability: Tracking Statistics as Criterion" (with Joseph Y. Halpern), *The British Journal for the Philosophy of Science*. Online Feb 2016: doi: 10.1093/bjps/axv027
213. "Introduction", pp. 7-36 in S. Gerogiorgakis (ed.) *Time and Tense*. Munich: Philosophia Verlag, 2016.
214. "Interpretations Of QM With Applications For Formal Epistemology". Pp. 3-15 in J. A. de Barros, B. Coecke, E. Pothos (eds.) *Quantum Interaction*. Lecture Notes in Computer Science. Volume 10106. Springer Verlag, 2017.
215. "Misdirection and misconceptions in the scientific realism debates". Pp.95-108 in E. Agazzi and W. Gonzalez (eds.), *Varieties of Scientific Realism: Objectivity and Truth in Science*. Springer, 2017.
216. "What is scientific realism?" (with Anjan Chakravartty). *Spontaneous Generations* 9 (2018): 12-25.

**Forthcoming (indexed by year it was accepted for publication)**

2011. "Simulation: how does an empirical question become mathematical?" in S. Vaidi (ed.) *Simulation and Networks*, Paris: Hermann <NSF supported>
2017. "How Can We Understand Transcendence of the Ego?". Forthcoming in *Nova et Vetera*.

History Personal Statement. Visits to the national museums of Knightsbridge and the Smithsonian ignited my interest in history. My desire to study history was nurtured following visits to the Normandy beaches which prompted me to research the Second World War and its origins. My interests have widened to encompass economic, political and social aspects of medieval, modern European and Asian history. Intellectual curiosity and academic rigor motivates me to study history. I hope this passion will provide me with a fulfilling pathway to a future career, when I can employ the skills of historical analysis, comprehension and communication. Profile info. Validity of the personality inventory. Person An emotional history record. R G J Bernreuter. J O Chassell. C E Watson. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. intelligence. REFERENCES BERNREUTER, R. G. Validity of the personality inventory. Person. J., CHASELL, J. O., & WATSON, C. E. An emotional history record. Un-published. Statistical method Making rating scales work Detecting abnormal behavior STAGNER, R. The relation of personality to academic aptitude and Introduction to the theory of statistics. Jan 1923. 1-6. T L Kelley. F A Kingsbury. D A Laird. L L Thurstone. A program I'm applying to requires an essay on intellectual history and academic interests instead of a personal statement. The website clearly states this is not a personal statement, listing questions like: - What questions and concerns motivate your study of composition and rhetoric? - How have your academic background, work experience, or other life experiences generated these questions and concerns and prepared you to study composition and rhetoric? - What inquiries do you hope to pursue specifically in the [program] and why? So, is this genre more like a cover letter where I'm