

# Huw Price

## Contact details

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[www.phil.cam.ac.uk](http://www.phil.cam.ac.uk) (Faculty of Philosophy)

[lcfi.ac.uk](http://lcfi.ac.uk) (Leverhulme Centre for the Future of Intelligence)

[cser.ac.uk](http://cser.ac.uk) (Centre for the Study of Existential Risk)

[prce.hu/w/](http://prce.hu/w/) (Personal)

## Current positions

2016–2026 Academic Director, Leverhulme Centre for the Future of Intelligence  
FROM 2020 Emeritus Bertrand Russell Professor of Philosophy, Cambridge  
FROM 2020 Emeritus Fellow, Trinity College, Cambridge  
FROM 2019 Board Member, Ada Lovelace Institute

## Previous appointments

2011–2020 Bertrand Russell Professor of Philosophy, Cambridge  
2011–2020 Professorial Fellow, Trinity College, Cambridge  
2012–2018 Founding Academic Director, Centre for the Study of Existential Risk  
2007–2012 Second ARC Federation Fellowship, University of Sydney  
2003–2012 Challis Professor of Philosophy, University of Sydney  
2002–2012 Director, Centre for Time, University of Sydney  
2002–2007 ARC Federation Fellowship, University of Sydney  
2001–2003 Professor of Logic and Metaphysics, University of Edinburgh  
1997–2001 Professor of Natural Metaphysics (Personal Chair), University of Sydney  
1989–1997 Lecturer (1989–90), Senior Lecturer (1991–94), Reader (1995–97), University of Sydney  
1988–1989 Research Fellow in Philosophy, RSSH, ANU  
1985–1987 ARC National Research Fellow in Philosophy, UNSW  
1981–1983 Rothmans Postdoctoral Fellow, ANU

## Education

1977–1981 PhD in Philosophy, Cambridge  
1976–1977 MSc in Mathematics, Oxford  
1971–1975 BA with Double First Class Honours in Pure Mathematics (1974) & Philosophy (1975)  
(University Medal in Pure Mathematics, 1974; the Tillyard Prize for ‘Academic achievement and contribution to University life’, 1975)

### Professional honours

|           |  |
|-----------|--|
| 2021      | Dewey Lecturer, Fudan University, Shanghai   |
| FROM 2020 | Fellow of the Royal Society of New South Wales   |
| 2018      | Jacobsen Lecturer, London  |
| 2016      | Gottlob Frege Lecturer, Tartu  |
| 2016      | Itamar Pitowsky Lecturer, Jerusalem  |
| FROM 2012 | Fellow of the British Academy  |
| 2011      | Nordic Pragmatism Lecturer, Helsinki   |
| 2008      | René Descartes Lecturer, Tilburg   |
| 2008–2010 | Member of Council, Australian Academy of the Humanities                                  |
| FROM 2008 | Elected member & Australian representative, <i>Institut International de Philosophie</i> |
| 1998–1999 | President, Australasian Association of Philosophy  |
| FROM 1994 | Fellow of the Australian Academy of the Humanities                                       |

### Editorships

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| FROM 2010 | Editorial board, <i>The Rutherford Journal</i> , NZ                    |
| FROM 2009 | Editorial board, <i>European Journal for the Philosophy of Science</i> |
| FROM 2004 | Editorial board, <i>Contemporary Pragmatism</i> (USA)                  |
| 2002–2004 | Editorial board, <i>Philosophical Quarterly</i> (UK)                   |
| FROM 1997 | Associate editor, <i>Australasian Journal of Philosophy</i>            |
| 1995–2003 | Founding consulting editor, <i>Stanford Encyclopedia of Philosophy</i> |

### Major competitive research grants and fellowships

|           |   |
|-----------|---|
| 2016–2026 | (PI) <i>The Future of Intelligence</i> , Leverhulme Trust Major Research Centre (£10m)  |
| 2015–2018 | (PI with Sean Ó hÉigeartaigh, Martin Rees & Partha Dasgupta) <i>Managing Extreme Technological Risk</i> , Templeton World Charity Foundation Foundation (£1.7m)   |
| 2014–2016 | (With Chris Timpson & Owen Maroney, Oxford) <i>Information at the Quantum Physics/Statistical Mechanics Nexus</i> , Templeton World Charity Foundation (£760k).   |
| 2012–2014 | (Lead Investigator, with Dean Rickles, Kristie Miller & Alex Holcombe) <i>New Agendas for the Study of Time: Connecting the Disciplines</i> , John Templeton Foundation (US\$1.5m)  |
| 2009–2010 | (International Collaborator, with Sungho Choi, Principal Investigator, and Alexander Bird and Toby Handfield, International Collaborators) <i>The Semantics and Metaphysics of Dispositions</i> , National Research Foundation of Korea (KRW200m) |
| 2008–2010 | (Lead Investigator, with Guido Bacciagaluppi & Max Schlosshauer) ARC Discovery Grant, <i>Time-asymmetry and the Bohmian View of the Quantum World</i> (AU\$208k)  |
| 2007–2012 | Second ARC Federation Fellowship (AU\$1.5m)   |
| 2005–2009 | (Lead Investigator, with Jenann Ismael & Guido Bacciagaluppi) ARC Discovery Grant, <i>Time and Perspective in the Quantum World</i> (AU\$750k)  |
| 2002–2007 | ARC Federation Fellowship, inaugural round (AU\$1.25m)  |
| 2001–2003 | ARC Large Grant, <i>The Nature of Naturalism</i> (AU\$152k)   |
| 1996–1998 | (PI with S Buckle) ARC Large Grant, <i>Hume and Contemporary Pragmatism</i> (AU\$135k)  |
| 1993      | ARC Large Grant, <i>The Physics of Time-Asymmetry</i> (AU\$19k)   |

## Publications

### MONOGRAPHS AND EDITED COLLECTIONS

- 2017 (Edited with Helen Beebee and Christopher Hitchcock) *Making a Difference*, Oxford University Press.  
CONTRIBUTORS: Helen Beebee, Thomas Blanchard, David Braddon-Mitchell, Rachael Briggs, Nancy Cartwright, Chris Hitchcock, Christian List, Cei Maslen, Peter Menzies, Daniel Nolan, Philip Pettit, Huw Price, Jonathan Schaffer, Brad Weslake, and James Woodward.
- 2017 (Edited with Cheryl Misak) *The Practical Turn: Pragmatism in Britain in the Long Twentieth Century*, Oxford University Press.  
CONTRIBUTORS: David Bakhurst, Simon Blackburn, Anna Boncompagni, Hanjo Glock, Jane Heal, Hallvard Lillehammer, Cheryl Misak, Huw Price, and Ian Rumfitt.
- 2013 *Expressivism, Pragmatism and Representationalism*, Cambridge University Press.  
Based on my René Descartes Lectures, delivered in Tilburg, May 2008. The lectures appear in this volume with commentary essays by Simon Blackburn, Robert Brandom, Paul Horwich and Michael Williams, and a Postscript and Replies by me.
- 2011 *Naturalism Without Mirrors*, Oxford University Press, New York.  
A collection of thirteen of my previously published essays on truth, naturalism, expressivism and representationalism, with a new Introduction. (Chinese translation forthcoming from Fudan University Press, 2021)
- 2008A (Edited with Guido Bacciagaluppi and David Miller) *Time-symmetric Approaches to Quantum Mechanics*. [Focus issue of *Studies in the History and Philosophy of Modern Physics*, Vol. 39, Issue 4]
- 2008B (Edited with Luca Moretti) *Ontological Commitment*. [Special issue of *Philosophical Studies*, Vol. 141, Issue 1]
- 2007 (Edited with Richard Corry) *Causation, Physics and the Constitution of Reality: Russell's Republic Revisited*, Oxford University Press.  
CONTRIBUTORS: Arif Ahmed, Helen Beebee, Richard Corry, Antony Eagle, Adam Elga, Mathias Frisch, Chris Hitchcock, Douglas Kutach, Barry Loewer, Peter Menzies, John D. Norton, Huw Price, and James Woodward.
- 1996 *Time's Arrow and Archimedes' Point: New Directions for the Physics of Time*, Oxford University Press, New York.  
Translated into Polish (1997), Japanese (2001), Mandarin (2001) and Hebrew (2002), with a Greek translation under contract, this book reached a *New Scientist* best-seller list in 1997, and was enthusiastically reviewed, both by philosophers and by physicists:

- ‘*Time’s Arrow* is ... a highly original and important contribution to the philosophy and physics of time. It is path-breaking in many areas, since it covers topics rarely treated by philosophers and offers novel solutions to many problems.’ – Craig Callender, *BjPS*, 1998.
- ‘The book is a tour de force. Price addresses some of the most difficult issues in physics and philosophy, and offers highly original solutions.’ – David Papineau, *TLS*, 13 June 1997.
- ‘Price is a philosopher with a real grasp of fundamental physics. He offers an original slant on some profound issues, where our understanding has advanced little since the time of St. Augustine.’ – Martin Rees, *The Times*, 25 July 1996.
- ‘The author has done physicists a great service in laying out so clearly and critically the nature of the various time-asymmetry problems of physics.’ – John Barrow, *Nature*, 19 September 1996.
- ‘[A] significant contribution, remarkable for its scope. ... written with great clarity and conviction.’ – Ilya Prigogine (Nobel Laureate in Chemistry), *THES*, 27 September 1996.
- ‘[A] splendidly provocative book. ... [Price] has taken a subject understood by a few experts and thrown open the door to the masses.’ – John Gribbin, *The Sunday Times*, 21 July 1996.

1988 *Facts and the Function of Truth*, Blackwell.  
 Second edition forthcoming from Oxford University Press (2021).

#### JOURNAL ARTICLES AND BOOK CHAPTERS

- 2020 (With Ken Wharton) A live alternative to quantum spooks. *International Journal of Quantum Foundations*, 6, 1–8.
- 2019A Global expressivism by the method of differences. *Royal Institute of Philosophy Supplement*, 86, 133–154.
- 2019B (With Yang Liu) Heart of DARCness. *Australasian Journal of Philosophy*, 97, 136–150.
- 2018A Carnapian voluntarism and global expressivism: reply to Carus. *Monist*, 101, 468–474.
- 2018B (With Yang Liu) “Click!” Bait for Causalists. In Arif Ahmed (ed), *Newcomb’s Problem*, Cambridge University Press, 160–179.
- 2018C (With Yang Liu) Ramsey and Joyce on deliberation and prediction. *Synthese*, online 17.09.2018.
- 2017A Causation, intervention and agency: Woodward on Menzies and Price. In Beebe, Hitchcock, and Price (eds), *Making a Difference*, Oxford University Press, 73–98.
- 2017B Epilogue: Ramsey’s ubiquitous pragmatism. In C Misak and H Price (eds), *The Practical Turn: Pragmatism in Britain in the Long Twentieth Century*, OUP, 149–162.
- 2017C (With Ken Wharton) Dispelling the quantum spooks: a clue that Einstein missed? In Christophe Bouton and Philippe Huneman (eds), *Time of Nature and the Nature of Time*, Boston Studies in the Philosophy and History of Science 326, Springer, 123–137.
- 2017D Wilfrid Sellars meets Cambridge Pragmatism. In David Pereplyotchik and Deborah R. Barnbaum (eds), *Sellars and Contemporary Philosophy*, Routledge, 123–140.
- 2015A Idling and sidling toward philosophical peace. In S. Gross, N. Tebben, and M. Williams (eds), *Meaning Without Representation*, Oxford University Press, 307–330.
- 2015B (With Ken Wharton) Disentangling the quantum world. *Entropy* 17:11, 7752–7767.
- 2015C From quasirealism to global expressivism – and back again? In Johnson & Smith (eds), *Passions and Projections: Themes from the Philosophy of Simon Blackburn* (OUP), 134–152.
- 2014A Representationalism revisited. *Análisis. Revista de investigación filosófica*, 1, 87–99.
- 2014B Where would we be without counterfactuals? In Galavotti, M. C. et al. (eds), *New Directions in the Philosophy of Science*, Springer, 589–607.

- 2013 (With Peter Evans and Ken Wharton) New slant on the EPR-Bell experiment. *British Journal for the Philosophy of Science*, 64, 297–324.
- 2012A Causation, chance and the rational significance of supernatural evidence. *Philosophical Review*, 121:4, 483–538.  
• Selected for *The Philosopher's Annual*, 2012.
- 2012B (With Arif Ahmed) Arntzenius on “Why ain’cha rich?”. *Erkenntnis*, 77, 15–30.
- 2012C Does time-symmetry imply retrocausality? How the quantum world says “Maybe”. *Studies in History and Philosophy of Modern Physics*, 43, 75–83.
- 2011A (With Ken Wharton and David Miller) Action Duality: A Constructive Principle for Quantum Foundations. *Symmetry* 3, 524–540.
- 2011B The flow of time. In Craig Callender, ed., *The Oxford Handbook of Time* (OUP), 276–311.
- 2011C Expressivism for two voices. In J. Knowles and H. Rydenfelt, eds., *Pragmatism, Science and Naturalism* (Peter Lang), 87–113.
- 2010A (With Brad Weslake) The time-asymmetry of causation. In Helen Beebe, Christopher Hitchcock and Peter Menzies, eds., *The Oxford Handbook of Causation* (OUP), 414–443.
- 2010B Decisions, decisions, decisions: can Savage salvage Everettian probability? In Simon Saunders, Jonathan Barrett, Adrian Kent & David Wallace, eds., *Many Worlds? Everett, Quantum Theory & Reality* (OUP), 369–390.
- 2010C One cheer for representationalism? In Randall Auxier, ed., *The Philosophy of Richard Rorty* (Open Court, Library of Living Philosophers XXXII), 269–289.
- 2010D (With Richard Rorty) Exchange on ‘Truth as Convenient Friction’. In M. De Caro and D. Macarthur (eds), *Naturalism and Normativity*, Columbia University Press, 253–262.
- 2010E Time’s arrow and Eddington’s challenge. *Séminaire Poincaré XV, Le Temps*, 115–140.
- 2009A The semantic foundations of metaphysics. In Ian Ravenscroft, ed., *Minds, Worlds and Conditionals: Essays in Honour of Frank Jackson* (OUP), 111–140.
- 2009B Metaphysics after Carnap: the ghost who walks? In David Chalmers, Ryan Wasserman and David Manley, eds., *Metametaphysics* (OUP), 320–346.
- 2009C (With Peter Menzies) Is semantics in the plan? In David Braddon-Mitchell and Robert Nola, eds., *Conceptual Analysis and Philosophical Naturalism* (MIT Press), 183–200.
- 2008A Toy models for retrocausality. *Studies in Hist. and Philos. of Modern Physics* 39, 752–761.
- 2008B Brandom and Hume on the genealogy of modals. *Philosophical Topics* 36, 87–97.
- 2007A Quining naturalism. *Journal of Philosophy* 104, 375–405.
- 2007B (With David Macarthur) Pragmatism, quasi-realism and the global challenge. In Cheryl Misak, ed., *The New Pragmatists* (OUP), 91–120.
- 2007C Causal perspectivalism. In Huw Price and Richard Corry, eds., *Causation, Physics and the Constitution of Reality: Russell’s Republic Revisited* (OUP), 250–292.
- 2006A Recent work on the arrow of radiation. *Stud. in Hist. and Philos. of Mod. Phys.* 37, 498–527.
- 2006B The thermodynamic arrow: puzzles and pseudo-puzzles. In Ikaros Bigi and Martin Faessler, eds., *Time and Matter* (World Scientific), 209–224.
- 2006C Time’s arrow, time’s fly-bottle. In Friedrich Stadler and Michael Stöltzner, eds., *Time and History* (Ontos Verlag), 253–273.
- 2005A Einstein and the quantum spooks. In C. Stewart and R. Hewitt, eds., *Waves of the Future* (Science Foundation for Physics), 221–233.
- 2005B Models and modals. In D. Gillies, ed., *Laws and Models in Science* (King’s College), 49–69.
- 2004A On the origins of the arrow of time: why there is still a puzzle about the low entropy

- past. In C. Hitchcock, ed., *Contemporary Debates in Phil. of Science* (Blackwell), 219–239.
- 2004B Immodesty without mirrors – making sense of Wittgenstein’s linguistic pluralism. In M. Kölbel & B. Weiss, eds., *Wittgenstein’s Lasting Significance* (Routledge), 179–205.
- 2004C Naturalism without representationalism. In David Macarthur and Mario de Caro, eds., *Naturalism in Question* (Harvard University Press), 71–88.
- Reprinted in Italian as ‘Naturalismo senza rappresentazionalismo’, in *La Mente e La Natura* (Fazi Editore, Rome, 2005), 58–77.
  - Reprinted with a new Postscript in M. Milkowski and K. Talmont-Kaminski, eds., *Beyond Description: Normativity in Naturalised Philosophy* (College Publications, 2010).
  - Reprinted in Spanish as ‘Naturalismo sin representacionalismo’, in *Análisis*, 1, 1–23.
- 2003A Truth as convenient friction. *Journal of Philosophy* 100, 167–190.
- Reprinted in *The Philosopher’s Annual*, XXVI.
  - Reprinted in D. Macarthur and M. de Caro, eds., *Nature and Normativity* (Columbia University Press, 2010) with a reply by Richard Rorty and a response by me.
  - Reprinted in Talisse & Aikin, eds, *The Pragmatic Turn* (Princeton University Press, 2011).
- 2003B (With R. Holton) Ramsey on saying and whistling: a discordant note. *Noûs* 37, 325–341.
- 2002A Boltzmann’s time bomb. *British Journal for the Philosophy of Science* 53, 83–119.
- 2002B Burbury’s last case: the mystery of the entropic arrow. In Craig Callender, ed., *Time, Reality and Experience* (CUP), 19–56.
- 2001A Backward causation, hidden variables, and the meaning of completeness. *PRAMANA – Journal of Physics* 56, 199–209.
- 2001B Causation in the special sciences: the case for pragmatism. In D. Costantini, M.C. Galavotti & P. Suppes, eds., *Stochastic Causality* (CSLI Publications), 103–120.
- 1999 The role of history in microphysics. In Howard Sankey, ed., *Causation and Laws of Nature* (Kluwer), 437–456.
- 1998A Three norms of assertibility, or how the MOA became extinct. *Phil. Pers.* 12, 41–54.
- 1998B Chaos theory and the difference between past and future. In J. Fraser, M. Soulsby and A. Argyros, eds., *Time, Order, Chaos* (International Universities Press), 155–162.
- 1998C Two paths to pragmatism II. *European Review of Philosophy* 3, 109–147.
- 1997A Carnap, Quine and the fate of metaphysics. *Electronic Journal of Analytic Philosophy* 5.
- 1997B What should a deflationist about truth say about meaning? In E. Villanueva, ed., *Truth, Philosophical Issues*, Vol. 8 (Ridgeview), 107–115.
- 1997C Time symmetry in microphysics. *Philosophy of Science* 64, S235–244.
- 1997D Naturalism and the fate of the M-worlds. *Proceedings of the Aristotelian Society*, Supp. Vol., LXXI, 247–267.
- 1996A Backward causation and the direction of causal processes: Reply to Dowe. *Mind* 105, 467–474.
- 1996B (With John O’Leary-Hawthorne) How to stand up for non-cognitivists. *Australasian Journal of Philosophy* 74, 275–292.
- 1995 Cosmology, time’s arrow and that old double standard. In S. Savitt, ed., *Time’s Arrows Today* (CUP), 66–94.
- Reprinted in L. Sklar, ed., *The Philosophy of Physics* (Garland, 2000), 392–420.
- 1994A A neglected route to realism about quantum mechanics. *Mind* 103, 303–336.
- Reprinted in *The Philosopher’s Annual*, XVII, 181–215.

- 1994B Psychology in perspective. In M. Michael and J. O’Leary-Hawthorne, eds., *Philosophy in Mind: The Place of Philosophy in the Study of the Mind* (Kluwer), 83–98.
- 1994C Reinterpreting the Wheeler-Feynman Absorber Theory: Reply to Leeds. *British Journal for the Philosophy of Science* 45, 1023–1028.
- 1994D Semantic minimalism and the Frege point. In S. Tsohatzidis, ed., *Foundations of Speech Act Theory: Philosophical and Linguistic Perspectives* (Routledge), 132–155.
- 1993 (With Peter Menzies) Causation as a secondary quality. *British Journal for the Philosophy of Science* 44, 187–203.
- 1992A Agency and causal asymmetry. *Mind* 101, 501–520.
- 1992B Metaphysical pluralism. *Journal of Philosophy* 89, 387–409.
- 1992C The direction of causation: Ramsey’s ultimate contingency. In David Hull, Micky Forbes and Kathleen Okruhlik (eds.), *PSA 1992, Volume 2*, 253–267.
- 1991A The asymmetry of radiation: reinterpreting the Wheeler-Feynman argument. *Foundations of Physics* 21, 959–975.
- 1991B Agency and probabilistic causality. *British Journal for the Philosophy of Science* 42, 157–176.
- 1990 Why “Not”? *Mind* 99, 221–238.
- 1989A (With Philip Pettit) Bare functional desire. *Analysis* 49, 162–169.
- 1989B A point on the arrow of time. *Nature*, 20 July 1989, 181–182.
- 1989C Defending desire-as-belief. *Mind* 98, 119–127.
- 1988 Action explanation and the nature of mind. In Albury and Slezak, eds., *Computers, Brains and Minds: Papers in Cognitive Science* (Kluwer), 221–251.
- 1987 Truth and the nature of assertion. *Mind* 96, 202–220.
- 1986A Conditional credence. *Mind* 95, 18–36.
- 1986B Against causal decision theory. *Synthese* 67, 195–212.
- 1984A The philosophy and physics of affecting the past. *Synthese* 61, 299–323.
- 1984B Mellor, chance and the single case. *British Journal for the Philosophy of Science* 35, 11–23.
- 1983A Sense, assertion, Dummett and denial. *Mind* 92, 174–88.
- 1983B “Could a question be true?": Assent and the basis of meaning. *Phil. Quarterly* 33, 354–64.
- 1983C Does “Probably” modify sense? *Australasian Journal of Philosophy* 61, 396–408.

#### SELECTED REVIEW ARTICLES

- 2013 Rebirthing pains. Review of Lee Smolin, *Time Reborn* (2013). *Science* 341, 960–961.
- 2011 Abusing one’s position. Commentary on Jenann Ismael, *The Situated Self* (OUP, 2006). *Philosophy and Phenomenological Research* 82, 772–779.
- 2006 Blackburn and the war on error. Discussion review of Simon Blackburn, *Truth* (Allen Lane, 2005). *Australasian Journal of Philosophy* 84, 603–614.
- 1995 Discussion review of Philip Pettit, *The Common Mind* (OUP, 1992). *Philosophy and Phenomenological Research* 55, 689–699.
- 1994 Review of John McDowell, *Mind and World* (Harvard University Press, 1994). *Philosophical Books* 38, 169–177, with reply by McDowell.
- 1991 Review of K.G. & J.S. Denbigh, *Entropy in Relation to Incomplete Knowledge* (Cambridge University Press, 1985), and H.D. Zeh, *The Physical Basis of the Direction of Time* (Springer-Verlag, 1989). *British Journal for the Philosophy of Science* 42, 111–144.