

## Nicholas Huggett

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EMPLOYMENT: **University of Illinois at Chicago:** 1996- – currently Full Professor.

**Brown University:** 1995-6 – Visiting Assistant Professor.

**University of Kentucky:** 1994-5 – Visiting Assistant Professor.

EDUCATION: **Rutgers University:** PhD, 1995. (Dissertation: **The Philosophy of Fields and Particles in Classical and Quantum Mechanics, including The Problem of Renormalization.**)

**Cambridge University:** Department of History and Philosophy of Science: Visiting Scholar, Fall 1991.

**Oxford University:** BA Hons in Physics and Philosophy, 1988.

### AWARDS AND

FELLOWSHIPS: University of Illinois at Chicago **Humanities Institute Fellow**, 2005-6. Grant for full-time research.

University of Illinois at Chicago, **University Scholar**, 2002-5.

National Science Foundation **Science and Technology Studies Scholars Award**, 2001-2002. Grant for full-time research.

University of Illinois at Chicago **Humanities Institute Fellow**, 1999-2000. Grant for full-time research.

University of Illinois at Chicago **OVCR-Institute for the Humanities Grants-in-Aid**, 1999.

### OTHER

INSTITUTIONS: **London School of Economics**, Visiting Research Fellow at the Centre for the Philosophy of Natural and Social Sciences, May 1999 and April 2002.

**Universitat Autònoma de Barcelona**, Visiting Scholar at the Department of Philosophy, June-July 2005.

**Université de Genève**, Lecturer at the Geneva Summer School in the Philosophy of Physics, July 2008.

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- BOOKS:
1. **Everywhere and Everywhen** – a popular account of topics in the philosophy of physics: motion, space, time, relativity and quantum mechanics. Forthcoming 2009 from OUP.
  2. **Physics Meets Philosophy at the Planck Scale**, (with Callender, C), 2001, Cambridge University Press. Editor.
  3. **Space from Zeno to Einstein: Classic Readings with a Contemporary Commentary**, 1999, MIT Press. Edited volume with survey text.

- BOOKS IN PROGRESS:
1. **True Motion** – a reassessment of the history of the absolute-relative debate from Galileo, a defense of the relational ‘regularity account’ of space, motion and chirality. Projected submission: Fall 2009. (~125,000 words)

- ESSAYS:
1. **Entanglement Exchange and Bohmian Mechanics**, (with Vistarini, T.) in Manuscript, forthcoming.
  2. **Indistinguishability**, (with Imbo, T.) in The Compendium of Quantum Physics: Concepts, Experiments, History and Philosophy, D.Greenberger, K.Hentschel and F.Weinert (eds), forthcoming 2009.
  3. **Answers to Six Questions**, in Foundations of Philosophy and Physics: Six Questions, J.Ferret and J.Symons (eds), forthcoming 2009.
  4. **Essay Review: Harvey Brown’s *Physical Relativity* and Robert DiSalle’s *Understanding Spacetime***, Philosophy of Science, forthcoming.
  5. **Why the Parts of Absolute Space are Immobile**, British Journal for the Philosophy of Science, **59**, September 2008: 391-407.
  6. **Groups in Mind**, (with Hilbert, D.) Philosophy of Science, **73**, December 2006: 765-77.
  - 7-8. **Particles and Fields, Space in Physical Theory, and Black Holes**, Encyclopedia of Philosophy, 2006.
  9. **Absolute and Relational Theories of Space and Motion**, (with Hofer, C.) Stanford Online Encyclopedia of Philosophy, 2006. <http://plato.stanford.edu/entries/spacetime-theories>.
  10. **The Regularity Account of Relational Spacetime**, Mind, **115**, January 2006: 41-73.
  11. **Motion**, Routledge Electronic Encyclopedia of Philosophy, 2005.
  12. **How a Skeptic Would Save A-Series Time from GTR: Response to Brian Pitts**, Chronos: The Annual Proceedings of the Philosophy of Time Society, **VI**, 2003-4.
  13. **Quartiles and the Identity of Indiscernibles**, in Symmetries in Physics: New Reflections, K.Brading and E.Castellani (eds), 2003: 239-49.

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14. **Mirror Symmetry: What is it for a Relational Space to be Orientable?** in Symmetries in Physics: New Reflections, K.Brading and E.Castellani (eds), 2003: 281-8.
15. **Renormalization and the Disunity of Science**, The Ontological Aspects of Quantum Field Theory, A.Wayne et al (eds), 2002: 255-77.
16. **Zeno's Paradoxes**, Stanford Online Encyclopedia of Philosophy, 2002. Revised 2004. <http://plato.stanford.edu/entries/paradox-zeno>.
17. **Why Quantize Gravity (or Any Other Field for that Matter)?**, (with Callender, C) Philosophy of Science, **68**, 2001: S382-94.
18. **Aristotle and Modern Cosmology**, Aristotle and Contemporary Science, Vol 2, D.Sfendoni-Mentzou et al (eds), 2001.
19. **Philosophical Foundations of Quantum Field Theory**, British Journal for the Philosophy of Science, **51**, 2000: 617-38. Reprinted in Philosophy of Science Today, 2003, Oxford University Press. Reprinted in Deucalion (in greek), 2006.
20. **Local Philosophies of Science**, Philosophy of Science, **67**, 2000: S128-37.
21. **Reflections on Parity Non-conservation**, Philosophy of Science, **67**, 2000: 219-41.
22. **On the Significance of Permutation Symmetry**, British Journal for the Philosophy of Science, **50**, 1999: 325-47.
23. **Why Manifold Substantivalism is Probably Not a Consequence of Classical Mechanics**, International Studies in the Philosophy of Science, **13**, 1999: 17-34.
24. **Atomic Metaphysics**, Journal of Philosophy, **XCVI**, 1999: 5-24.
25. **Gauge Fields, Gravity and Bohm's Theory**, (with Weingard, R) Conceptual Foundations of Quantum Field Theory, T.Y.Cao (ed), 1999: 287-97.
26. **Identity, Quantum Mechanics and Common Sense**, The Monist, **80**, 1997: 118-30.
27. **Answer to 'Can an Electron be at Rest?'**, American Journal of Physics, **65**, 1997: 1135.
28. **Exposing the Machinery of Infinite Renormalization**, (with Weingard, R) Proceedings of the 1996 PSA Conference, Vol 1, 1996: 159-67.
29. **Critical Review: Paul Teller's *Interpretive Introduction to Quantum Field Theory***, (with Weingard, R) Philosophy of Science, **63**, 1996: 302-14.
30. **The Renormalisation Group and Effective Field Theories**, (with Weingard, R) Synthese, **102**, 1995: 171-94.

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31. **What are Quanta and Why Does it Matter?**, Proceedings of the 1994 PSA Conference, Vol 2, 1995: 69-78.

32. **On the Field Aspect of Quantum Fields**, (with Weingard, R) Erkenntnis, **40**, 1994: 293–301.

33. **Interpretations of Quantum Field Theory**, (with Weingard, R) Philosophy of Science, **61**, 1994: 370–88.

### BOOK

#### REVIEWS:

1. Slowik, E., **Cartesian Spacetime**, British Journal for the Philosophy of Science, **55**, 2004: 189-93.

2. Albert, D., **Time and Chance**, Notre Dame Philosophical Reviews, Jan 2002.

3. Price, H., **Time's Arrow and Archimedes' Point**, Philosophy and Phenomenological Research, **59**, 1999: 1093-6.

4. Papineau, D. (ed), **The Philosophy of Science**, Teaching Philosophy, **21**, 1998: 416-9.

5. Smith, Q. and Oaklander, N., **Time, Change and Freedom**, Canadian Philosophical Reviews, **16**, 1996: 314-6.

6. Sklar, L., **Philosophy of Physics**, International Studies in Philosophy, **XXVII**, 1995: 139-40.

### RECENT

#### TALKS:

1. **The Past Hypothesis and the Knowledge Asymmetry**, *Foundations of Statistical Mechanics Meeting, Rutgers University, May 2009.*

2. **Are Quarticles Discernible? or Making Weak Discernibility Work**, *Philosophy of Quantum Field Theory, University of Western Ontario, April 2009.*

3. **Aristotelian Themes in Early Modern and Contemporary Physics**, *Classics Department, UIC. February 2009.*

4. **Passing Time**, *Grand Valley State University, November 2007; University of California, San Diego, March 2008.*

5. **True Motion: Leibniz**, *Ohio State University, January 2008.*

6. **(Again) a Philosopher Looks at String Theory**, *Physics Meets Metaphysics on the Banks of the Raritan Conference, Rutgers University, October 2007; Stringtime in Pittsburgh, Pittsburgh HPS, April 2008.*

7. **Why Integrate History and Philosophy of Science?**, *Invited Panelist, &HPS1 Conference, University of Pittsburgh, October 2007.*

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8. **Why the Parts of Absolute Space are Immobile**, *University of Rochester*, December 2006; *University of South Carolina*, *University of Toronto*, January 2007.
9. **Can Spacetime Help Settle Any Issues in Modern Philosophy?**, *Conference on Issues in Early Modern Philosophy*, *New York University*, November 2006.
10. **Explanation and Relativity for the Regularity Relationist**, *Philosophy of Science Association Conference*, November 2006.
11. **The Identity of Indiscernibles for Any Kind of Quarticle**, *University of Rochester*, December 2006; *Sigma Club*, *London School of Economics*, June 2006; *University of Maryland*, May 2006.
12. **The Regularity Account of Relational Spacetime**, *Popper Lecture*, *London School of Economics*, June 2006; *Oxford University*, June 2006; *Universidad Complutense de Madrid*, June 2005; *Descrying the World in Physics* conference, *Rutgers University*, April 2005.
13. **Leibniz on the Relativity of Motion**, *Annual Philosophy of Science Conference*, *Inter-University Center*, *Dubrovnik*, April 2006.
14. **The Place of Space in the Notion of Motion**, *Humanities Institute*, *UIC*, October 2005.
15. **Leibniz, Clarke and True Motion**, *Department of Philosophy*, *Universitat Autònoma de Barcelona*, June 2005.
16. **Groups in Mind**, (with Hilbert, D) *Philosophy of Science Association Conference*, November 2004.
17. **The Regularity Account of Motion**, *International Conference on the Ontology of Spacetime*, *Concordia University*, May 2004.
18. **Quarticles and the Principle of the Identity of Indiscernibles**, *Department of Physics*, *UIC*, April 2004.
19. **The Regularity Account of Space**, *Boston University Colloquium in the History and Philosophy of Science*, *Boston University*, November 2003; *Department of Philosophy*, *University of Wisconsin Milwaukee*, January 2003.
20. **Identity and Indiscernibility for Every Kind of Quarticle**, *University of Michigan*, *Ann Arbor*, November 2003.
21. **Topology and the Reality of Space**, *Institute for History and Foundations of Science*, *Utrecht University*, June 2002; *Centre de Philosophie des Sciences*, *Université Catholique de Louvain*, May 2002; *Annual Philosophy of Science Conference*, *Inter-University Centre*, *Dubrovnik*, April 2002; *Department of History and Philosophy of Science*, *Philosophy*, *Indiana University Bloomington*, March 2002.

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22. **Indistinguishability and Identity**, *Departments of Physics and of Philosophy*, Bristol University, April 2002; *Department of History and Philosophy of Science, Philosophy*, Indiana University Bloomington, March 2002.

23. **Space and Motion in Descartes, Huygens and Newton**, *Department of Physics, Illinois Institute of Technology*, Chicago, October 2001.

24. **Classical Notions of Space and Time**, *Seven Pines Symposium V - The Quantum Nature of Gravitation, Space and Time*, Stillwater MN, June 2001.

25. **What is an Elementary Quartile?**, (with Imbo, T) *Oxford Workshop on Symmetry in Physics*, Oxford University, January 2001; *Conference on the Foundations of Quantum Theory*, University of Western Ontario, April 2001.

26. **Why Quantize Gravity (or Any Other Field for that Matter)?**, (with Callender, C) *History of General Relativity Conference*, Amsterdam, June 2002; *Philosophy of Science Association Conference*, November 2000.

27. **Renormalization and the Disunities of Science**, *Conference on the Ontological Aspects of Quantum Field Theory*, Zentrum für Interdisziplinäre Forschung, Bielefeld, October 1999.

28. **The Meaning of Permutation Symmetry**, *Workshop on Identity in Modern Physics*, University of Notre Dame, April 1999.

29. **Reflections on Parity Nonconservation**, *Belgian Society for Logic and Philosophy of Science*, Brussels, October 1999.

1994-9 talks on request.

### PRESENTED BY

CO-AUTHOR: **Why Quantize Gravity (or Any Other Field for that Matter)?**, presented by Craig Callender, *Sigma Club, London School of Economics*, March 2000 *Physics Department, University of Utrecht*, April 2000, and *Department of Philosophy, Bristol University*, September 2000.

### PROFESSIONAL

ACTIVITIES: **Editorial Board** of [Philosophy Compass](#).

**Referee** for Australasian Journal of Philosophy, Blackwell, British Journal for the Philosophy of Science, Cambridge University Press, Erkenntnis, Foundations of Physics, International Studies in Philosophy of Science, Mind, MIT Press, Noûs, Oxford University Press, Perspectives on Science, Philosophical Quarterly, Philosophy and Phenomenological Research, Philosophy of Science, Princeton University Press, Routledge Publishers, Studies in History and Philosophy of Modern Physics, Synthese, University of Chicago Press, University of Pittsburgh Press, Wiley International.

**NSF STS general advisory panel** 2009-2011.

**Program Committee** for APA Central Division Meeting 2010.

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**Program Committee** for Philosophy of Science Association Conference 2006.

**Judging Committee** for Philosophy of Science Association Graduate Essay Prize 2002 and 2005.

**Judging Committee** for Philosophy of Science Association Recent PhD Essay Prize 2005.

**Promotion and Tenure Reader** for various universities.

### MEETINGS

ORGANIZED: **Philosophy of Science Series**, UIC Spring 2007

**New PhDs Workshop**, UIC July 2005.

**Seminar on Quantum Field Theory in Curved Spacetime**, UIC May 2003.

**Seminar in Quantum Gravity**, UIC May 2002.

**Conference in Honour of Arthur Fine**, UIC April 2001.

### ADMINISTRATIVE

EXPERIENCE: **University of Illinois at Chicago:**

- **Graduate Admissions Committee Chair**, 2002-3.
- **Placement Officer**, 2007-present.
- **Graduate Admissions Committee**, 1996-9, 2006-8.
- **Faculty Senate**, 2003-5, 2006-present.
- **Senate Faculty Advisory Committee**, 2004-present.
- **Teaching Committee Chair**, 1997-8.
- **Philosophy Department Executive Committee**, 2002-3.
- **Philosophy Department P&T Committee**, 2002-4.
- **Graduate Advisory Committee**, 2000-01.

### TEACHING:

**University of Illinois at Chicago:**

- **Formal Logic**, lectures (to 180 students) on predicate logic.
- **Science and Philosophy**, philosophy of physics for non-specialists.
- **Philosophy of Science**, topical and survey courses at all levels.
- **Epistemology**, foundations of deductive and inductive reasoning.
- **Graduate Seminars**, e.g., Spacetime, Newton's *Principia*, Laws, Time.
- **Entangled Identities**, interdisciplinary seminar.

#### **Brown University:**

- **Philosophy of Science**, upper level/graduate course.
- **Deductive Logic**, introduction to metalogic.
- **Science, Perception and Reality**, introduction to philosophy of physics.
- **20th Century Analytic Philosophy**, upper level/graduate course.

#### **University of Kentucky:**

- **Knowledge and Reality**, introduction to Philosophy.
- **Philosophy and Classical Physics**, history of philosophy of space.

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- **Symbolic Logic.**

### THESES

- SUPERVISED:
- Matthew Lund, 2004: tenure track at Rowan University.
  - David Harker, 2006: tenure track at East Tennessee State University.

### THESIS

- COMMITTEES:
- Department of Philosophy, UIC.
  - Department of Physics, UIC.
  - Department of History and Philosophy of Science, University of Pittsburgh.
  - Department of Philosophy, University of Western Ontario.