

Nicholas Huggett

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EMPLOYMENT: 2015- : **LAS Distinguished Professor**, *Philosophy and Laboratory for Quantum Theory at the Extremes, University of Illinois Chicago.*

Spring 2018: **Visiting Associate Dean**, *College of Liberal Arts and Sciences, University of Illinois Chicago.*

2009-15: **Full Professor**, *Philosophy, University of Illinois Chicago.*

2001-9: **Associate Professor**, *Philosophy, University of Illinois Chicago.*

1996-2001: **Assistant Professor**, *Philosophy, University of Illinois Chicago.*

1995-6: **Visiting Assistant Professor**, *Philosophy, Brown University.*

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

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

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

AWARDS AND

FELLOWSHIPS: **Benjamin Meaker Follow-On Fellowship**, University of Bristol, May 2024.

Visiting Fellow, Magdalen College, Oxford, April-July 2023.

Benjamin Meaker Distinguished Visiting Professor, University of Bristol, September-December, 2022.

Visiting Fellow, Merton College, Oxford, May 2022.

Senior Visiting Fellow, Center for Philosophy of Science, Department of History and Philosophy of Science, University of Pittsburgh, 2020-21.

Foundational Questions Institute Member, 2017-.

Outstanding Graduate Mentor Award, Graduate College, University of Illinois Chicago, 2015.

Nicholas Huggett

Professorial Fellow, Institute of Philosophy, School of Advanced Studies, University of London, April-May 2011.

American Council of Learned Societies **Collaborative Fellowship**, 2010-13. Grant for full-time research.

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

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

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

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

OTHER

INSTITUTIONS: **Illinois Institute of Technology**, Lecturer in NSF funded course on Collaboration in Scientific Research, Fall 2011, Fall 2012.

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

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

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

Nicholas Huggett

GRANTS RECEIVED:

Project	Grant	Dates	Amount
Laboratory for Quantum Theory at the Extremes	College of Liberal Arts and Sciences, UIC	2024-27	\$200,000
Genesis of Spacetime: visit to UNIGE	Fonds National Suisse	2023	CHF 7,000 (100% to UNIGE)
Cosmology Beyond Spacetime	John Templeton Foundation	2020-23	\$599,991 (split between UIC and UNIGE)
1st Biennial Midwest Summer School	FQXi	2018	\$1,750
Space and Time after Quantum Gravity	John Templeton Foundation	2015-18	\$1,104,281 (split between UIC and UNIGE)
Time in Quantum Gravity Conference	John Templeton Foundation, through the Centre for Time, University of Sydney	2014-15	\$14,070 (100% to UCSD)
A Seminar on the Philosophical Foundations of Quantum Gravity	National Science Foundation, Standard Grant (SES 1257354)	2013-14	\$12,900
Emergent Spacetime in Quantum Theories of Gravity	American Council of Learned Societies, Collaborative Fellowship	2010-13	\$103,500 (\$68,500 to UIC)
Absolute Quantities in Theories of Space and Motion	National Science Foundation, Standard Grant (SES 4375)	2001-2	\$69,117
Physics Meets Philosophy at the Planck Scale	OVCR-Institute for the Humanities Grants-in-Aid	1999	\$500

WORK IN PROGRESS:

1. **Beyond Spacetime** – a multi-component project in philosophy of quantum gravity, with Christian Wüthrich: www.beyondspacetime.net.

Nicholas Huggett

2. **True Motion** – a monograph reassessing the absolute-relative debate in the context of early modern physics.

BOOKS:

1. **Out of Nowhere: The Emergence of Spacetime in Theories of Quantum Gravity**, with Christian Wüthrich. March, 2025, OUP.
2. **Quantum Gravity in a Laboratory?**, with Mike Schneider and Niels Linnemann. June 2023, Cambridge Elements. doi.org/10.48550/arXiv.2205.09013.
3. **Philosophy Beyond Spacetime**, edited volume (with Wüthrich, C and Le Bihan, B), July 2021, OUP.
4. **Beyond Spacetime: The Foundations of Quantum Gravity**, edited volume (with Matsubara, K, and Wüthrich, C), April 2020, CUP.
5. **Everywhere and Everywhen: Adventures in Physics and Philosophy**, February 2010, OUP.
6. **Physics Meets Philosophy at the Planck Scale**, edited volume (with Callender, C), 2001, CUP.
7. **Space from Zeno to Einstein: Classic Readings with a Contemporary Commentary**, 1999, MIT Press. Edited volume with survey text.

ESSAYS:

Most papers available at <https://philpapers.org/s/nick%20huggett>.

1. **Short Note on the Significance of the Penrose-Halting Theorem**, *Bulletin of Symbolic Logic*, forthcoming.
2. **Finding Time for Wheeler-DeWitt Cosmology**, (with Thébault, K.) in The Arrow(s) of Time: From Local System to the Whole Universe, O.Lombardi and C.López (eds.), CUP, forthcoming.
3. **Decoherence, Branching, and Locality: a Single Worlder's Guide to Many Worlds**, (with Blackman, N. and Ladyman, J) in Local Quantum Mechanics: Everett, Many Worlds, and Reality, A.Ney (ed), OUP, forthcoming.
4. **Quantum Gravity and Experiment**, (with Rovelli, C.) *Scientific American*, September 2024.
5. **Illusions are not what they seem**, *Frontiers in Psychology*, 2023: doi: 10.3389/fpsyg.2022.718505.
6. **Reading the Past in the Present**, in The Probability Map of the Universe, B.Loewer, B.Weslake, and E.Winsberg (eds), Harvard University Press, 2023.
7. **Spacetime Emergence**, in Routledge Companion to Philosophy of Physics, E.Knox and A.Wilson (eds). 2021.

Nicholas Huggett

8. **Lost Horizon? Modeling Black Holes in String Theory**, (with Matsubara, K.), European Journal for Philosophy of Science, 2021: <https://doi.org/10.1007/s13194-021-00376-3>.
9. **Missing the Point in Noncommutative Geometry**, (with Lizzi, F., and Menon, T.), Synthese, 2021: <https://doi.org/10.1007/s11229-020-02998-1>.
10. **Absolute and Relational Theories of Space and Motion: Classical Theories**, (with Hofer, C. and Read, J.) Stanford Online Encyclopedia of Philosophy, 2006, substantial revisions 2015, 2021. <https://plato.stanford.edu/entries/spacetime-theories-classical/>.
11. **Absolute and Relational Theories of Space and Motion: Post-Newtonian Theories**, (with Hofer, C. and Read, J.) Stanford Online Encyclopedia of Philosophy, 2006, substantial revisions 2015, 2021. <http://plato.stanford.edu/entries/spacetime-theories>.
12. **The (A)temporal Emergence of Spacetime**, (with Wüthrich, C.), Philosophy of Science, 2018: <https://doi.org/10.1086/699723>.
13. **Target Space \neq Space**, Studies in History and Philosophy of Modern Physics, 2017.
14. **Deriving General Relativity from String Theory**, (with Vistarini, T.), Philosophy of Science, 2015.
15. **Skeptical Notes on a Physics of Passage**, Annals of the New York Academy of Sciences, 2014.
16. **Emergent Spacetime and Empirical (In)coherence**, (with Wüthrich, C.), Studies in History and Philosophy of Modern Physics, 2013.
17. **Weak Discernibility of Quanta, the Right Way**, (with Norton, Joshua D.), British Journal for Philosophy of Science, 2013.
18. **Essay Review: William Harper's *Isaac Newton's Scientific Method***, Metascience, 2013.
19. **Time in Quantum Gravity**, (with Vistarini, T. and Wüthrich, C.) in A Companion to the Philosophy of Time, A.Bardon and H.Dyke (eds), 2013.
20. **What Did Newton Mean by 'Absolute Space'**, in Interpreting Newton, A.Janiak and E.Schliesser (eds), Cambridge University Press, 2012.
21. **Philosophy of Physics**, in Continuum Companion to the Philosophy of Science, S.French and J.Saatsi (eds), 2011.
22. **Answers to Six Questions**, in Foundations of Philosophy and Physics: Six Questions, J.Ferret and J.Symons (eds), 2010.
23. **Entanglement Exchange and Bohmian Mechanics**, (with Vistarini, T.), Manuscrito, 33, January-June 2010: 223-42.

Nicholas Huggett

24. **Indistinguishability**, (with Imbo, T.) in The Compendium of Quantum Physics: Concepts, Experiments, History and Philosophy, D.Greenberger, K.Hentschel and F.Weinert (eds), 2009.
25. **Essay Review: Harvey Brown's *Physical Relativity* and Robert DiSalle's *Understanding Spacetime***, Philosophy of Science, July 2009: 404-22.
26. **Why the Parts of Absolute Space are Immobile**, British Journal for the Philosophy of Science, **59**, September 2008: 391-407.
27. **Groups in Mind**, (with Hilbert, D.) Philosophy of Science, **73**, December 2006: 765-77.
28. **Particles and Fields, Space in Physical Theory, and Black Holes**, Encyclopedia of Philosophy, 2006.
29. **The Regularity Account of Relational Spacetime**, Mind, **115**, January 2006: 41-73.
30. **Motion**, Routledge Electronic Encyclopedia of Philosophy, 2005.
31. **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.
32. **Quartiles and the Identity of Indiscernibles**, in Symmetries in Physics: New Reflections, K.Brading and E.Castellani (eds), 2003.
33. **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.
34. **Renormalization and the Disunity of Science**, The Ontological Aspects of Quantum Field Theory, A.Wayne et al (eds), 2002.
35. **Zeno's Paradoxes**, Stanford Online Encyclopedia of Philosophy, 2002. Revised 2004, 2017. <http://plato.stanford.edu/entries/paradox-zeno>.
36. **Why Quantize Gravity (or Any Other Field for that Matter)?**, (with Callender, C) Philosophy of Science, **68**, 2001: S382-94.
37. **Aristotle and Modern Cosmology**, Aristotle and Contemporary Science, Vol 2, D.Sfendoni-Mentzou et al (eds), 2001.
38. **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.
39. **Local Philosophies of Science**, Philosophy of Science, **67**, 2000: S128-37.

Nicholas Huggett

40. **Reflections on Parity Non-conservation**, Philosophy of Science, **67**, 2000: 219-41.
41. **On the Significance of Permutation Symmetry**, British Journal for the Philosophy of Science, **50**, 1999: 325-47.
42. **Why Manifold Substantivalism is Probably Not a Consequence of Classical Mechanics**, International Studies in the Philosophy of Science, **13**, 1999: 17-34.
43. **Atomic Metaphysics**, Journal of Philosophy, **XCVI**, 1999: 5-24.
44. **Gauge Fields, Gravity and Bohm's Theory**, (with Weingard, R) Conceptual Foundations of Quantum Field Theory, T.Y.Cao (ed), 1999.
45. **Identity, Quantum Mechanics and Common Sense**, The Monist, **80**, 1997: 118-30.
46. **Answer to 'Can an Electron be at Rest?'**, American Journal of Physics, **65**, 1997: 1135.
47. **Exposing the Machinery of Infinite Renormalization**, (with Weingard, R) Proceedings of the 1996 PSA Conference, Vol 1, 1996: 159-67.
48. **Critical Review: Paul Teller's *Interpretive Introduction to Quantum Field Theory***, (with Weingard, R) Philosophy of Science, **63**, 1996: 302-14.
49. **The Renormalisation Group and Effective Field Theories**, (with Weingard, R) Synthese, **102**, 1995: 171-94.
50. **What are Quanta and Why Does it Matter?**, Proceedings of the 1994 PSA Conference, Vol 2, 1995: 69-78.
51. **On the Field Aspect of Quantum Fields**, (with Weingard, R) Erkenntnis, **40**, 1994: 293-301.
52. **Interpretations of Quantum Field Theory**, (with Weingard, R) Philosophy of Science, **61**, 1994: 370-88.

BOOK REVIEWS:

1. Dawid, R., **String Theory and the Scientific Method**, Notre Dame Philosophical Reviews, 2014. <http://ndpr.nd.edu/news/46160-string-theory-and-the-scientific-method/>
2. Slowik, E., **Cartesian Spacetime**, British Journal for the Philosophy of Science, **55**, 2004: 189-93.
3. Albert, D., **Time and Chance**, Notre Dame Philosophical Reviews, Jan 2002. <http://ndpr.nd.edu/news/23401/?id=1261>
4. Price, H., **Time's Arrow and Archimedes' Point**, Philosophy and Phenomenological Research, **59**, 1999: 1093-6.

Nicholas Huggett

5. Papineau, D. (ed), **The Philosophy of Science**, *Teaching Philosophy*, **21**, 1998: 416-9.
6. Smith, Q. and Oaklander, N., **Time, Change and Freedom**, *Canadian Philosophical Reviews*, **16**, 1996: 314-6.
7. Sklar, L., **Philosophy of Physics**, *International Studies in Philosophy*, **XXVII**, 1995: 139-40.

- OTHER MEDIA:
1. **Beyond Spacetime**, blog post (with Christian Wüthrich and Keizo Matsubara): <http://www.cambridgeblog.org/2020/06/beyond-spacetime/>.
 2. **The Never-Ending Dance of Philosophy and Physics**, (with Joshua Norton): <http://philsci-archive.pitt.edu/cgi/users/home?screen=EPrint%3A%3AView&eprintid=19082>. (Video at https://www.youtube.com/watch?v=JxZZ6Wv_ual&list=PLVzK6UpZmNq1yq5BMz8Cszg5jEAC3-IY8&index=9).
 3. Blog and website (with Christian Wüthrich): <https://www.beyondspacetime.net>.
 4. Co-curated (with Christian Wüthrich) YouTube channel (including a number of videos of my talks): <https://www.youtube.com/c/BeyondspacetimeNet>.
 5. **BST 202: A Short Course on String Theory**: https://www.youtube.com/playlist?list=PLVzK6UpZmNq3DiO6pN3C3OJAZq1Zz__mA.

- TALKS:
1. **Quantum theory and the Born-Oppenheimer approximation**, *British Society for Philosophy of Science Conference*, Glasgow, July 2025.
 2. **Searching High and Low**, Foundations2025 Conference, University of Gdańsk, July 2025.
 3. **On the Edge of Spacetime**, *8th Annual Black Hole Initiative Conference*, Harvard University, May 2025; *Metaphysics Beyond Spacetime Workshop*, Champéry, June 2025.
 4. **Born-Oppenheimer from Chemistry to Cosmology**, *Department of History and Philosophy of Science*, University of Pittsburgh, December 2024; *Riley Center*, University of Notre Dame, February, 2025.
 5. **Philosophical Focus on the Conceptual Extremes of Physics**, *Laboratory for Quantum Theory at the Extremes*, UIC, August 2024.
 6. **Demarcating Research from Pseudo-Research**, *Models and Trust*, Leibniz University, Hannover, June 2024.
 7. **The Physics of Memory**, *Center for Philosophy of Science*, University of Pittsburgh, March 2024.

Nicholas Huggett

8. **Passing Time**, keynote address at *World Philosophy Day Conference, University of Pristina (remote)*, November 2023.
9. **Spacetime Emergence**, keynote address at *1st International Conference on Philosophy of Physics and Cosmology, University of São Paulo and University of Lisbon (remote)*, September 2023.
10. **Carnap-Lewis vs Dennett-Wallace Functionalism?**, *King's College London*, June 2023.
11. **Ways of Branchmaking**, *Annual Philosophy of Science Meeting, IUC Dubrovnik*, April 2023; *Cambridge University CamPoS group*, May 2023; *Sharif University of Technology, Tehran (remote)*, May 2023; *University of Bristol*, May 2024; *Philosophy of Science Association Biennial Conference, New Orleans*, November 2024.
12. **Finding Time for Wheeler-DeWitt Cosmology** (with K.Thébault), *University of Surrey QAT group*, May 2023; *PROTEUS, University of Milan*, July 2023; *SoCal Philosophy of Physics Reading Group (remote)*, February 2024; *British Society for the Philosophy of Science, York*, July 2024.
13. **Quantum Gravity in a Laboratory?**, *Center for Philosophy of Science, University of Pittsburgh*, October 2021; *University of Warsaw, online*, April 2022; *University of Oxford Philosophy of Physics Seminar*, May 2022; *Summer Institute in the Philosophy Quantum Gravity, Morzine*, June 2022; *Cambridge-LMU Black Holes Workshop, DAMPT Cambridge*, September 2022; *Universitat Autònoma de Barcelona*, October 2022; *Philosophy of Science Association Conference*, November 2022; *Sigma Club, London School of Economics*, November 2022; *University of Bristol*, December 2022; *Utrecht University*, February 2023; *IQOQI University of Vienna*, July 2023; *Center for Fundamental Physics at Low Energy, Northwestern University*, January, 2024; *VCQ and TURIS summer school, University of Vienna*, September 2024; *DICE 2024, Italy*, September 2024.
14. **Solving the Problem of Time Without Circularity**, *University of Geneva*, March 2023.
15. **Out of Nowhere: String Theory and Spacetime Functionalism**, series of six lectures, *University of Bristol*, October-November 2022.
16. **Spacetime is as Quantum Gravity does?**, *Metaphysics Beyond Spacetime, Ovronnaz*, June 2022; *University of Florence (remote)*, June 2023.
17. **Philosophy of Quantum Gravity**, *QISS 2022, Western University*, June 2022.
18. **Dynamical Laws at the Big Bang**, *Philosophy of Science Association Meeting*, November 2021.
19. **Laws for Nowhere**, *Center for Philosophy of Science, University of Pittsburgh, online*, February 2021.

Nicholas Huggett

20. **Missing the Point in Non-Commutative Geometry**, *QISS*, online, October 2020; *Oxford University Philosophy of Physics Seminar*, online, March 2021; *Center for Philosophy of Science, University of Pittsburgh*, online, March 2021.
21. **The Physics of Memory, and the Asymmetry Between Past and Future**, *Society for the Metaphysics of Science Conference*, Toronto, November 2019.
22. **Matter in String Theory Black Holes**, *European Philosophy of Science Association Meeting*, Geneva, September 2019.
23. **Observer and Observables in Physics Roundtable**, *University of Naples*, July 2019.
24. **Four Observations Concerning Observers**, *Observers in Quantum Gravity II*, Naples, July 2019.
25. **What Does Philosophy Have to do with Physics?**, *Department of Physics, UIC*, April 2019.
26. **Explaining Spacetime**, *O'Hara Annual Lecture*, Washington University, November 2018; *University of Bristol*, November 2022.
27. **Panel on Future Directions in Philosophy of Physics**, *Columbia University*, November 2018.
28. **From Strings to Spacetime**, *First Biennial Midwest Summer School in Philosophy of Physics*, Chicago, July 2018.
29. **The Place of Space in String Theory**, a series of three lectures at the *University of São Paulo*, June 2018.
30. **Explaining Space**, *Quantum Spacetime '17*, Porto, January 2017; *Asociación de Filosofía e Historia de la Ciencia del Cono Sur XI*, Buenos Aires, June 2018; *University of São Paulo*, June 2018.
31. **What Can We Learn from Stringy Black Holes?**, *Philosophy of Physics Workshop*, *University of Notre Dame*, March 2018; *Annual Philosophy of Science Conference*, *Inter-University Center*, Dubrovnik, April 2018.
32. **The 'Premembrance' of Things Future**, *Adler Planetarium*, Chicago, January 2018.
33. **String Theory for Philosophers**, *5th International Summer School in Philosophy of Physics*, Saig, Germany, July 2017.
34. **Cosmological Aspects of Quantum Gravity**, *Probing the Spacetime Fabric: from Concepts to Phenomenology*, *SISSA/ISAS Trieste*, July 2017.
35. **The Time Before Time**, *Philosophy of Cosmology Conference*, Western University, June 2017.

Nicholas Huggett

36. **Philosophical Aspects of Black Holes: What Can Stringy Models Show Us?**, *Seven Pines Symposium*, Stillwater MN, May 2017.
37. **Oriti's 'Geometrogenesis' and Other Births of Spacetime**, *Physics Old and New: Historical and Critical Perspectives of Physics and the Philosophy of Nature*, University of Notre Dame, March 2017.
38. **The (A)temporal Emergence of Spacetime**, with Christian Wüthrich, *Philosophy of Science Association Conference*, November 2016.
39. **Whence 'Where' (According to String Theory)**, *Metaphysics and Fundamental Physics Meeting*, Bristol University, June 2016.
40. **How Space Emerges in Non-Commutative Geometry**, University of Notre Dame, April 2016; *Foundations2016: UK and European Conference on Foundations of Physics*, London School of Economics, July 2016.
41. **Here, There and Everywhen**, *LAS Distinguished Professor of Philosophy Inaugural Address*, UIC, February 2016.
42. **An Interview with Richard Dawid**, February 2016. <https://www.youtube.com/watch?v=Olh-x6UnG4c>
43. **Non-Commutative Spacetime as Primitive Ontology**, University of Lausanne, December 2015.
44. **Flux Capacitors and Philosophy**, Adler Planetarium, Chicago, November 2015.
45. **What's Involved in Explaining Spacetime**, *Emergent Time and Emergent Space in Quantum Gravity*, Albert Einstein Institute for Gravitational Physics, Potsdam, December 2014; *Annual Philosophy of Science Conference*, Inter-University Center, Dubrovnik, April 2015; *Université de Genève*, December 2015. <https://www.youtube.com/watch?v=udS7jufkchM>
46. **Deriving General Relativity from String Theory**, *Philosophy of Science Association Conference*, November 2014.
47. **Duality**, *The Philosophical Foundations of Dualities in Physics*, University of Florence, September 2014.
48. **How Quantum Gravity (Likely) Needs Philosophy**, *Conceptual and Technical Challenges for Quantum Gravity Conference*, Sapienza University of Rome, September 2014.
49. **Out of Nowhere: Could Spacetime be Emergent?**, *Philosophy Club*, St Louis University, January 2014; *Keynote Address*, *Student Philosophy Conference*, Eastern Tennessee State University, April 2013.
50. **Searching for Quantum Mechanics and for Quantum Gravity**, *Haunted Workshop: Who's Afraid of Quantum Theory*, Tepoztlan, Mexico, November 2013.

Nicholas Huggett

51. **String Theory for Philosophers (of Physics)**, *Seminar on the Philosophical Foundations of Quantum Gravity, UIC*, September 2013.
<https://www.youtube.com/watch?v=Wg5NvMrikIA>
52. **Why ‘Philosophical’ Foundations?**, (with Wüthrich, C.), *Seminar on the Philosophical Foundations of Quantum Gravity, UIC*, September 2013.
<https://www.youtube.com/watch?v=BQE11we-Dfl>
53. **Time in Quantum Gravity**, *Do We Need a Physics of Passage?*, Capetown, South Africa, December 2012.
54. **Emergent Spacetime and Empirical (In)coherence**, (with Wüthrich, C.), *PhiloSTEM 4, Indiana-Purdue University, Fort Wayne*, October 2012; *Reflections on Space, Time and their Quantum Nature, Albert Einstein Institute for Gravitational Physics, Potsdam*, November 2012.
55. **On Belot on the Regularity Account of Relational Spacetime**, *Belot-Reutsche Book Bash*, University of Western Ontario, September 2012.
56. **Reading the Past in the Present**, *Sigma Club, London School of Economics*, April 2011; *Oxford University*, April 2011; *University of Notre Dame*, March 2012.
57. **Non-Commutative Field Theory**, *Bristol University*, April 2011; *University of Barcelona*, June 2011.
58. **Zeno’s Difficulty**, *Institute of Philosophy, University of London*, April 2011.
59. **I & =**, *Leeds University*, April 2011.
60. **Expanding the Horizons of Quantum Statistical Mechanics**, (with Imbo, T.) *Philosophy of Science Association Conference*, November 2010.
61. **Emergence and Dualities in String Theory**, *Philosophy of Science Association Conference*, November 2010.
62. **When Science is Not a Guide to Natural Properties**, *Metaphysics of Science Conference*, University of Melbourne, July 2009.
63. **Passing Time**, *Grand Valley State University*, November 2007; *University of California, San Diego*, March 2008; *University of Sydney*, June 2009; *European Philosophy of Science Association* biannual conference, October 2009; *University of Barcelona*, June 2011.
64. **The Past Hypothesis and the Knowledge Asymmetry**, *Foundations of Statistical Mechanics Meeting, Rutgers University*, May 2009; *Oberlin College*, December 2010; *Purdue University*, March 2011.
65. **Are Quarticles Discernible? or Making Weak Discernibility Work**, *Philosophy of Quantum Field Theory, University of Western Ontario*, April 2009.

Nicholas Huggett

66. **Aristotelian Themes in Early Modern and Contemporary Physics**, *Classics Department, UIC*. February 2009.
67. **True Motion: Leibniz**, *Ohio State University*, January 2008.
68. **(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.
69. **Why Integrate History and Philosophy of Science?**, Invited Panelist, *&HPS1 Conference, University of Pittsburgh*, October 2007.
70. **Why the Parts of Absolute Space are Immobile**, *University of Rochester*, December 2006; *University of South Carolina, University of Toronto*, January 2007.
71. **Can Spacetime Help Settle Any Issues in Modern Philosophy?**, *Conference on Issues in Early Modern Philosophy, New York University*, November 2006.
72. **Explanation and Relativity for the Regularity Relationist**, *Philosophy of Science Association Conference*, November 2006.
73. **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.
74. **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.
75. **Leibniz on the Relativity of Motion**, *Annual Philosophy of Science Conference, Inter-University Center, Dubrovnik*, April 2006.
76. **The Place of Space in the Notion of Motion**, *Humanities Institute, UIC*, October 2005.
77. **Leibniz, Clarke and True Motion**, *Department of Philosophy, Universitat Autònoma de Barcelona*, June 2005.
78. **Groups in Mind**, (with Hilbert, D) *Philosophy of Science Association Conference*, November 2004.
79. **The Regularity Account of Motion**, *International Conference on the Ontology of Spacetime, Concordia University*, May 2004.
80. **Quarticles and the Principle of the Identity of Indiscernibles**, *Department of Physics, UIC*, April 2004.
81. **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.

Nicholas Huggett

82. **Identity and Indiscernibility for Every Kind of Quarticle**, *University of Michigan, Ann Arbor*, November 2003.
83. **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.
84. **Indistinguishability and Identicality**, *Departments of Physics and of Philosophy, Bristol University*, April 2002; *Department of History and Philosophy of Science, Philosophy, Indiana University Bloomington*, March 2002.
85. **Space and Motion in Descartes, Huygens and Newton**, *Department of Physics, Illinois Institute of Technology, Chicago*, October 2001.
86. **Classical Notions of Space and Time**, *Seven Pines Symposium V -The Quantum Nature of Gravitation, Space and Time*, Stillwater MN, June 2001.
87. **What is an Elementary Quarticle?**, (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.
88. **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.
89. **Renormalization and the Disunities of Science**, *Conference on the Ontological Aspects of Quantum Field Theory, Zentrum für Interdisziplinäre Forschung, Bielefeld*, October 1999.
90. **Reflections on Parity Nonconservation**, *Annual Philosophy of Science Conference, Inter-University Center, Dubrovnik*, April 1998; *Belgian Society for Logic and Philosophy of Science, Brussels*, October 1999.
91. **Renormalization and the Disunities of Science**, *Conference on the Ontological Aspects of Quantum Field Theory, Zentrum für Interdisziplinäre Forschung, Bielefeld*, October 1999.
92. **The Meaning of Permutation Symmetry**, *Workshop on Identity in Modern Physics, University of Notre Dame*, April 1999.
93. **Local Philosophies of Science**, *Philosophy of Science Association Conference*, October 1998.
94. **Aristotle as a Precursor of Leibniz, Einstein (and Hawking?)**, *Northwestern University Program in History and Philosophy of Science*, May 1998.

Nicholas Huggett

95. **Aristotle and Modern Cosmology**, *International Conference on Aristotle and Contemporary Science*, Aristotle University of Thessaloniki, September 1997.

96. **Mach's Principle/Bohm's Theory**, *Conference in Memory of Robert Weingard*, Oxford University, May 1997.

97. **Infinite Renormalization and the Disunities of Science**, *Centre for the Philosophy of Natural and Social Sciences*, London School of Economics, May 1997.

98. **Recent Work on the Physics of Identity**, *Department of Philosophy*, University of Leeds, May 1997.

99. **Unpacking the Machinery of Infinite Renormalization**, (with Weingard, R) *Philosophy of Science Association Conference*, November 1996.

100. **Quantum Mechanics, Identity and Common Sense**, *Maine Philosophy Consortium Conference*, July 1996.

Earlier talks on request.

TEACHING: **University of Illinois Chicago:**

- **Formal Logic**, lectures (to 180 students) on predicate logic.
- **Symbolic Logic**, intermediate logic.
- **Science and Philosophy**, philosophy of physics for non-specialists.
- **Philosophy of Science**, topical and survey courses at all levels.
- **Metaphysics**, the relation of metaphysics to science.
- **Epistemology**, foundations of deductive and inductive reasoning.
- **Graduate Seminars**, e.g., Spacetime, Newton's *Principia*, Laws, Time.
- **Entangled Identities**, interdisciplinary seminar.
- **Introduction to Formal Methods in Philosophy**, upper level course.

Illinois Institute of Technology:

- **Collaboration in Scientific Research**, NSF funded seminar.

Brown University:

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

Nicholas Huggett

- **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.
- **Symbolic Logic**.

DISSERTATIONS

SUPERVISED:

- Matthew Lund, 2004: Associate Professor at Rowan University.
- David Harker, 2006: Full Professor at East Tennessee State University.
- Tiziana Vistarini, 2013: Assistant Professor at Università degli Studi di Chieti.
- Maria Balcells, 2013: Assistant Professor at Bucknell University.
- Burkay Ozturk, 2014: Lecturer at Harold Washington College (*de jure* supervisor only).
- Joshua Norton, 2015: Assistant Professor at Wheaton College.
- Brandon Kidd, 2021: Postdoctoral Teaching Scholar at North Carolina State University.
- Deborah Haar, 2022.
- Seth Christensen, 2022: Adjunct, College of Western Idaho.
- Areins Pelayo, 2022: Visiting Assistant Professor at Grand Valley State University.
- Niranjana Warriar, 2023.
- Diana Taschetto (University of São Paulo), 2024: Postdoctoral Fellow at Utrecht University from 2024.

I have served on the dissertation and examination committees for many other PhDs.

PhD EXAM

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.
- Faculty of Philosophy, Oxford University.
- Department of Philosophy, University of Geneva.

Nicholas Huggett

- Department of Philosophy, University of Urbino.
- Department of Philosophy, Universitat Autònoma de Barcelona.

PRE/POSTDOCS

- SUPERVISED:
- John Dougherty (UCSD) – Predoctoral Fellow (2017): now Assistant Professor at Ludwig Maximilian University of Munich.
 - Keizo Matsubara – Postdoctoral Fellow (2015-17).
 - James Read (Oxford) – Predoctoral Fellow (2017-18): now Associate Professor at Oxford University.
 - Tushar Menon (Oxford) – Predoctoral Fellow (2017-18): now Assistant Professor, Dianoia Institute, Australian Catholic University.
 - Eugene Chua (UCSD) – Predoctoral Fellow (2022). now Postdoctoral Fellow at Caltech.
 - Mike D. Schneider – Postdoctoral Fellow (2020-22): now Assistant Professor at University of Missouri from 2023.
 - Saakshi Dulani – Predoctoral Fellow (2023): Postdoctoral Fellow at Johns Hopkins University from 2024.

PROFESSIONAL

ACTIVITIES: **Associate Editor**, *British Journal for Philosophy of Science*.

Editor (with Wüthrich, C.) of a special issue of *Studies in History and Philosophy of Modern Physics*, on *Emergence of Spacetime in Quantum Theories of Gravity*.

Editorial Board *Philosophy of Science*.

Referee for Australasian Journal of Philosophy, Blackwell, British Journal for the Philosophy of Science, Cambridge University Press, Erkenntnis, European Journal of Philosophy, Foundations of Physics, International Studies in Philosophy of Science, Mind, MIT Press, Noûs, Oxford University Press, Perspectives on Science, Philosophical Quarterly, Philosophical Studies, 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, and others.

NSF panelist - multiple occasions.

Executive Committee of Central APA 2012-15.

Executive Committee of the UIC Institute for Humanities 2012-14, 2019-22.

Program Committee for APA Central Division Meeting 2010.

Nicholas Huggett

Program Committee for Philosophy of Science Association Conference 2006, 2010.

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 numerous universities.

ADMINISTRATIVE

EXPERIENCE: *University of Illinois Chicago:*

- **Co-Director of Laboratory for Quantum Theory at the Extremes**, 2024-.
- **All Campus Promotion and Tenure Committee**, 2023-6.
- **Visiting Associate Dean for Diversity and Faculty Affairs, College of LAS**, Spring 2018.
- **College of LAS Diversity Committee**, 2018-21.
- **College of LAS Executive Committee**, 2009-10, 2014-6, 2019-21.
- **College of LAS Academic Priorities Task Force**, 2010.
- **Search Committee for Vice Chancellor Academic Affairs**, 2018.
- **Graduate College Executive Committee**, 2013-17, 2018-20.
- **Humanities Institute Executive Committee**, 2015-16, 2019-22.
- **Director of Graduate Studies**, 2013-9, summer 2020.
- **Graduate Admissions Committee Chair**, 2002-3, 2009.
- **Placement Officer**, 2007-2013, 2018-20.
- **Graduate Admissions Committee**, 1996-9, 2006-8, 2011-13.
- **Faculty Senate**, 2003-5, 2006-8.
- **Senate Faculty Advisory Committee**, 2004-9.
- **Teaching Committee Chair**, 1997-8.
- **Philosophy Department Executive Committee**, 2002-3.
- **Philosophy Department P&T Committee**, 2002-4.
- **Graduate Advisory Committee**, 2000-1.

MEETINGS

ORGANIZED: **Quantum Matter at the Extremes**, UIC, August 2025.

Nicholas Huggett

Quantum Theory at the Extremes, UIC, August 2024.

International Summer Institute in Philosophy of Physics on the Philosophy of Quantum Gravity and Cosmology, Morzine, France, June 2022.

Second Biennial Midwest Summer School in Philosophy of Physics, online, July 2020.

Foundations of Cosmology and Quantum Gravity, NYU Abu Dhabi, January 2020.

First Biennial Midwest Summer School in Philosophy of Physics, Chicago, July 2018.

Conference on the Philosophical Foundations of Quantum Gravity, Château de Bossey, Geneva, June 2017.

Summer Institute in the Philosophy of Quantum Gravity, Lake Geneva, WI, June 2016.

Seminar on the Philosophical Foundations of Quantum Gravity II, University of California at San Diego, March 2015.

Seminar on the Philosophical Foundations of Quantum Gravity, UIC September 2013.

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 Honor of Arthur Fine, UIC April 2001.