

Curriculum Vitae  
**Katherine Brading, DPhil**  
Professor of Philosophy  
Department of Philosophy, Duke University,  
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***EMPLOYMENT HISTORY***

July 2017 – present, Professor of Philosophy, Duke University  
September 2016 – June 2017, Professor of Philosophy, University of Notre Dame  
May 2010 – August 2016, Associate Professor of Philosophy with tenure, University of Notre Dame  
July 2011 – June 2016, Director, History and Philosophy of Science Graduate Program, John. J. Reilly Center for Science, Technology and Values, University of Notre Dame  
July 2010 – July 2013 William J. and Dorothy K. O’Neill Collegiate Professor of Philosophy, Department of Philosophy, University of Notre Dame  
July 2004 – May 2010, Assistant Professor of Philosophy, University of Notre Dame

***AWARDS, FELLOWSHIPS AND EXTERNAL GRANTS (SELECTED)***

2017-2019. American Council of Learned Societies collaborative fellowship, with Marius Stan, project entitled ‘The problem of bodies from Newton to Kant’  
2013-2014. American Council of Learned Societies fellowship, project entitled ‘Theoretical physics as a contribution to philosophy’  
2007-2008. National Science Foundation grant (NSF SES-0724383 Brading 201201), project entitled ‘Structuralist Approaches to Physics’

***PROFESSIONAL SERVICE (SELECTED)***

International Society for History of Philosophy of Science Steering Committee (2012-2018)  
Editorial Board, *Philosophy of Science* (2019-2021)  
Editorial Board, *Oxford University Studies in the Enlightenment* (since 2017)  
Editorial Board, *European Journal for Philosophy of Science* (since 2009)  
Editorial Advisory Board, *Studies in History and Philosophy of Modern Physics* (since 2007)  
Philosophy of Science Association Nominating Committee (2014-2016)  
European Philosophy of Science Association Program Committee (2015)  
Du Châtelet Prize in Philosophy of Physics (since 2019)

***UNIVERSITY SERVICE (WHILE AT DUKE)***

Director, Program in History and Philosophy of Science, Technology and Medicine (since 2018)  
Tenure committee for Felipe De Brigard (2018-19)  
Tenure committee for Carlotta Parvese (2019)  
Chair, search committee for junior position in metaphysics or epistemology (2019-20)  
Search committee, junior position in history of science, History Department (2018-19)

**GRADUATE STUDENT SUPERVISION**

**Notre Dame Doctoral Students:** Pablo Ruiz de Olano (PhD 2016). Monica Solomon (co-director with George Smith, PhD 2017). John Hanson (co-director with Sam Newlands, ABD)  
*Dissertation committees:* Brandon Fogel (2008); Brian Pitts (2008); Elise Crull (2011); Iulian Toader (2011); Robby Gustin (2015); Xavi Lanao (2017)  
*Dissertation proposal committees:* Brian Pitts; Iulian Toader; Elise Crull; Robby Gustin; Jorge Escobar (2012); Xavi Lanao (2014); Mousa Mohammadian (2015)  
*Orals director:* John Hanson (2017, co-director with Sam Newlands); Mousa Mohammadian (2014-15); Monica Solomon (2013-14); Pablo Ruiz de Olano (2013); Robby Gustin (2011)  
*Orals committees:* Iulian Toader; Elise Crull (2009); Charles Pence (2010); Jorge Escobar (2011); Aaron Wells (2013); Matt Gorski (2013)  
*Directed readings:* Elise Crull (Fall 2007); Robby Gustin (Spring 2009); Pablo Ruiz de Olano (Fall 2010); Monica Solomon (2011-12); Mousa Mohamadian (2011-2012); Katie Finley (2014); Jeremy Steeger (2014); Lauren LaMore (2015); Ashton Green (2017)  
**Duke Doctoral Students:** Qiu Lin (ABD). Michael Veldman (co-director with Andrew Janiak, ABD).  
*Dissertation committees:* Bryce Gessell (2018)

**UNDERGRADUATE STUDENT SUPERVISION**

**Senior thesis supervision (Notre Dame):** Beata Aldridge (2008/09); Kristina Sault (2009/10), joint winner of the Philosophy Department's Dockweiler medal for best senior thesis in philosophy; Shannon Hughes (2012/13), winner of the Philosophy Department's Dockweiler medal for best senior thesis in philosophy; Julie Brauer (2012/13); Ryan Dominguez (2013/14)  
*Directed readings (Notre Dame):* Katie Finley (Fall 2011); Shannon Hughes (Fall 2011); Jeremy Steeger (Spring 2014); Anne Seul (Spring 2015), Will Wolf (Spring 2017)  
*Independent studies (Duke):* Matías Navarro (Spring 2021)

**BOOKS AND MONOGRAPHS**

Under contract. *Philosophical Mechanics in the Age of Reason*. With Marius Stan. CUP.  
 2019. *Émilie Du Châtelet and the Foundations of Physics Science*. Routledge. Paperback: 2021.  
 2003. *Symmetries in Physics: Philosophical Reflections*, K. A. Brading and E. Castellani (eds.), Cambridge University Press. Paperback: 2009.

**RECENT PAPERS (SINCE 2012)**

2020. Émilie Du Châtelet and the problem of bodies. *Early Modern Women on Metaphysics*. Ed. Emily Thomas. Cambridge University Press. 150-168.  
 2019. A note on rods and clocks in Newton's *Principia*.  
 2018. Newton on Body. *The Oxford Handbook of Newton*. Ed. Eric Schliesser and Chris Smeenk.  
 2017. Epistemic Structural Realism and Poincaré's Philosophy of Science. With Elise Crull.  
*HOPOS: The Journal of the International Society for the History of Philosophy of Science*.  
 2017. Time for empiricist metaphysics. *Metaphysics and the Philosophy of Science*. Ed. M. Slater and Z. Yudell. Oxford University Press.

2015. Physically locating the present: a case of reading physics as a contribution to philosophy. *Studies in History and Philosophy of Science* 50, 13-19.
2013. Three principles of unity in Newton. *Studies in History and Philosophy of Science* 44, 408-415.
2013. Presentism as an empirical hypothesis. *Philosophy of Science* 80, pp. 1101-1111.
2012. Newton's law-constitutive approach to bodies: a response to Descartes'. *Interpreting Newton: critical essays*, ed. A. Janiak & E. Schliesser, Cambridge University Press.
2012. Hilbert's Axiomatic Method and his "Foundations of Physics": Reconciling Causality with the Axiom of General Invariance. With T. A. Ryckman. *Einstein and the Changing Worldviews of Physics, Einstein Studies Vol 12, Ch. 8*, pp. 175-199.
2012. Underdetermination as a path to ontic structural realism. With Alex Skiles. *Structure, Object, and Causality: Proceedings of the Banff Workshop on Structural Realism*. Ed. E. Landry and D. Rickles. University of Western Ontario Series in Philosophy of Science, Springer, pp. 99-116.

### **BOOK REVIEWS (SINCE 2012)**

2017. Book review, with Sebastián Murgueitio Ramírez and Laura Walls: 'One hundred years of general relativity', review of Albert Einstein, *Relativity: the Special and the General Theory*, 100th Anniversary Edition, and of Andrew Robinson, *Einstein: A Hundred Years of Relativity*. *Metascience* 26(1), 49-57.
2014. Book review, with Xavi Lanao: Don Ross, James Ladyman, and Harold Kincaid (eds), *Scientific Metaphysics*. *British Journal for the Philosophy of Science* 65(4), 899-903.
2014. Book review: 'David Hilbert: Philosophy, epistemology, and the foundations of physics', ed. T. Sauer and U. Mayer, *David Hilbert's Lectures on the Foundations of Physics 1915-1927*, Tilman Sauer and Ulrich Mayer (eds.). *Metascience* 23(1) 97-100.

### **KEYNOTE, PLENARY, AND PUBLIC LECTURES**

2021. Keynote. NYC Workshop in Early Modern Philosophy. Emilie Du Châtelet and the search for a physics of bodies
2021. Public Lecture. O'Hara Lecture in Philosophy of Physics. University of Washington. How physics flew the philosophers' nest
2019. Keynote. Society for the Metaphysics of Science. How physics flew the philosophers' nest
2019. Keynote. Dutch Seminar in Early Modern Philosophy. University of Groningen. But what puzzles me at present: collisions in natural philosophy from Descartes to Du Châtelet [cancelled for health reasons]
2019. Keynote. Early Career Workshop in History and Philosophy of Physics, Center for Philosophy of Science, University of Pittsburgh [cancelled for health reasons]
2018. Marjorie Grene Distinguished Lecture. Virginia Tech. Émilie Du Châtelet and the Foundations of Physical Science
2016. Keynote. Calvin College and Grand Valley State University 4th Annual Joint Undergraduate Philosophy Conference. Underdetermination of theories, and what to do about it

2015. Plenary. British Society for the Philosophy of Science Annual Conference. Émilie Du Châtelet and the Foundations of Physical Science

**INVITED TALKS (SINCE 2015)**

2021. Florida International University, Department of Physics. Emilie Du Châtelet and the foundations of physics

2019. UC-Irvine LPS Department. Philosophical Mechanics: Philosophy of Physics in the 18th century

2018. Boston Colloquium in Philosophy of Science. How it all began: the puzzle that led to Noether's theorems

2018. LMS-IMA Joint Meeting: Noether Celebration. The puzzle that led to Noether's theorems

2018. American Philosophical Association eastern division annual meeting. Symposium talk. Metaphysics and mechanics in Émilie Du Châtelet's *Foundations of Physics*

2017. Conference, *Causa sive ratio: causality and reason in modernity between metaphysics, epistemology and science*, Department of Philosophy, University of Milan. The force of bodies

2016. Conference, Exploring the Philosophy of Émilie Du Châtelet, Columbia University. Du Châtelet on Scientific Methodology

2016. Conference, New Narratives in Philosophy, Duke University. Émilie Du Châtelet and the problem of bodies

2016. Duke University, Department of Philosophy. Time for empiricist metaphysics

2016. UC Davis, Department of Philosophy. Émilie Du Châtelet and the Foundations of Physical Science

2015. Center for Advanced Study at the Norwegian Academy of Science and Letters. Knowing the world: Hilbert, Weyl, and the Foundations of Physics

2015. Oxford University, Conference in honor of Harvey Brown. Rods and clocks in Newton's *Principia*

2015. Oxford University, Émilie Du Châtelet Study Day. Reading the *Institutions de Physique* as a philosophical text: content and context in relation to the *Encyclopédie*, with Notre Dame undergraduate Anne Seul

2015. Boston Colloquium for Philosophy of Science, 100<sup>th</sup> Anniversary of General Relativity. Einstein, Hilbert, and the Search for Generally Covariant Field Equations

2015. Princeton University. Conference on equivalent and inequivalent theories. Responding to Ptolemy versus Copernicus: equivalence and inequivalence in the development of scientific methodology

2015. University of Tennessee, Philosophy Department. The problem of bodies from Descartes to Du Châtelet