

Douglas M. Jessep

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Dept. of Philosophy and Religion
North Carolina State University
Raleigh, NC 27695-8103
Ph.: (919) 515-6106

1412 Norton St.
Durham, NC 27701
(919) 683-8082
E-mail: doug_jesseph@ncsu.edu

EDUCATION:

Ph.D. (Philosophy) Princeton University, 1987
Dissertation: "Berkeley's Philosophy of Mathematics"
Advisor: Prof. Margaret D. Wilson
B.A. (Mathematics and Philosophy) Macalester College, 1981

HONORS, AWARDS, AND GRANTS:

Alumni Outstanding Teacher Award, North Carolina State University, April, 2006.
The journal *Choice* recognized *Squaring the Circle: The War between Hobbes and Wallis* as one of the outstanding academic books of the year 2000 (December, 2000).
NSF Scholars Award in Science and Technology Studies (1999-2002) three years of full support, for editing Hobbes's mathematical works for the *Clarendon Edition of the Works of Thomas Hobbes*.
NEH Fellowship for College Teachers, (1996-97) to support the completion of a book on the Hobbes-Wallis controversy.
NCSU College of Humanities and Social Sciences Summer Stipend (1994) to support writing of two chapters of a book on the Hobbes-Wallis controversy.
NCSU College of Humanities and Social Sciences Research Fund Grant (1993-4) to support archival research on the Hobbes-Wallis controversy.
National Humanities Center Fellowship (1993-4) to support writing of a book on the Hobbes-Wallis controversy.
NCSU College of Humanities and Social Sciences Research Fund Grant (1992-3) to support research on the Hobbes-Wallis controversy.
NEH Summer Stipend (1991) to support manuscript research at the British Library and Chatsworth House on the Hobbes-Wallis controversy.
NEH Travel to Sources Grant (1989) to support manuscript research on Berkeley's *Principles of Human Knowledge* at the British Library.
Whiting Fellowship (1985-6) to support writing of Ph.D. dissertation.
Fulbright Grant (1981-2) to support research in Germany on Frege's conception of the real numbers under the supervision of Prof. Christian Thiel.

ACADEMIC EMPLOYMENT:

Professor, North Carolina State University, Raleigh, NC, 2001-
Associate Professor, North Carolina State University, Raleigh, NC, 1995-2001
Assistant Professor, North Carolina State University, Raleigh, NC 1991-95
Visiting Assistant Professor, University of Chicago, Chicago, IL 1991-92
Assistant Professor, Illinois Institute of Technology, Chicago, IL 1988-91
Visiting Assistant Professor, Franklin & Marshall College, Lancaster, PA, 1987-88
Visiting Assistant Professor, Virginia Tech, Blacksburg, VA, 1986-87

PUBLICATIONS:**BOOKS:**

- Historical Dictionary of Descartes and Cartesian Philosophy* with Roger Ariew, Tad Schmaltz, Dennis Des Chene, and Theo Verbeek Scarecrow Press, 2003.
- Squaring the Circle: The War between Hobbes and Wallis* Science and its Conceptual Foundations Series. Chicago: University of Chicago Press, 1999.
- Berkeley's Philosophy of Mathematics*. Science and its Conceptual Foundations Series. Chicago: University of Chicago Press, 1993.

EDITIONS AND TRANSLATIONS:

- "De Motu" and "The Analyst": A Modern Edition, with Introductions and Commentary*. The New Synthese Historical Library, vol. 41. Dordrecht, Boston, and London: Kluwer Academic Publishers, 1992.

ARTICLES:

- "Hobbes and *Scientia*," forthcoming in a volume on concepts of *scientia* in early modern philosophy, edited by Tom Sorrel, Jill Kraye, and John Rogers.
- "Descartes, Pascal, and the Epistemology of Mathematics: The Case of the Cycloid," forthcoming in *Perspectives on Science*.
- "Faith and Fluxions: Berkeley on Theology and Mathematics" in *New Interpretations of Berkeley's Thought*, ed. Steve Daniel. Journal of the History of Philosophy Book Series, New York: Prometheus Books/Humanity Press, 2007, 247-260.
- "Hobbesian Mechanics" *Oxford Studies in Early Modern Philosophy* 3 (2006): 119 – 152.
- "Galileo, Hobbes, and the Book of Nature," *Perspectives on Science* 12 (2004): 191 – 211.
- "Berkeley, God, and Explanation," *Early Modern Philosophy Mind, Matter, Metaphysics*, edited by Eileen O'Neill and Christia Mercer. Oxford and New York: Oxford University Press, 183-205.
- "Berkeley's *Analyst*," Chapter 8 of *Landmark writings in Western mathematics, 1640-1940*, edited by Ivor Grattan-Guinness. Leyden, Elsevier: 2005, 121 – 131.
- "Mechanism, Skepticism, and Witchcraft: More and Glanvill on the Failures of Cartesian Philosophy," *Receptions of Descartes: Cartesianism and Anti-Cartesianism in Early Modern Europe*, edited by Tad Schmaltz. London, Routledge, 199 – 217...
- "Hobbes's Atheism." *Midwest Studies in Philosophy* 26, (2002), ed. Peter French, pp. 140-166.
- "Leibniz, Bramhall, and Hobbes on Free Will and Divine Justice." in H. Poser and E. Knobloch ed. *Nihil Sine Ratione: Mensch, Natur und Technik im Wirken von G. W. Leibniz* (2001), 565-572.
- "Descartes and Hobbes on Metaphysics, Physics, and the Possibility of Theology," *Il Seicento e Descartes: dibattiti cartesiani*, ed. Antonella Del Prete. Florence, Italy: Le Monnier Università, 2003, 121-137.
- "The Decline and Fall of Hobbesian Geometry," *Studies in History and Philosophy of Science*. 30 (1999): 425-453.
- "Leibniz and the Foundations of the Calculus: The Question of the Reality of Infinitesimal Magnitudes," *Perspectives on Science* 6 (1998): 6-40.
- "Berkeley and the Philosophy of Mathematics," *Cambridge Companion to Berkeley*. Ed. Kenneth P. Winkler. Cambridge University Press, 266-310.
- "Hobbes and the Method of Natural Science," *Cambridge Companion to Hobbes*. Ed. Tom Sorell. Cambridge University Press: 1995, 86-107.
- "Hobbes and Mathematical Method," *Perspectives on Science* 1 (1993): 306-341.
- "Of Analytics and Indivisibles: Hobbes on the Methods of Modern Mathematics," *Revue d'Histoire des Sciences* 46 (1993): 153-194.
- "The 'Hard Program' in the Sociology of Scientific Knowledge: A Manifesto," (with Warren Schmaus and Ullica Segerstralle) *Social Epistemology* 6 (1992): 243-265.
- "Berkeley's Philosophy of Geometry," *Archiv für Geschichte der Philosophie* 72 (1990): 301-332.

“Rigorous Proof and the History of Mathematics: Comments on Crowe,” *Synthese* 83 (1990): 449-453.

PUBLICATIONS (CONT.):

ARTICLES:

“Philosophical Theory and Mathematical Practice in the Seventeenth Century,” *Studies in History and Philosophy of Science* 20 (1989): 215-244.

REVIEWS AND MINOR PIECES:

Review of A. P. Martinich, *Hobbes* (New York and London: Routledge, 2005). [Notre Dame Philosophical Reviews](#) (online publication).

Review Symposium: “John Pell: Mathematical Utopian,” review of Noel Malcolm and Jacqueline Stedall, *John Pell (1611-1685) and his correspondence with Sir Charles Cavendish* (Oxford: Oxford University Press, 2005). *Metascience* in press.

Review of Tom Stoneham, *Berkeley's World: An Examination of the “Three Dialogues”* (Oxford: Oxford University Press, 2003). *Philosophical Review*. In press.

Articles “Hardy”; “Le Pailleur”; “L’Hopital” and “Roberval” forthcoming in *Dictionary of Seventeenth-Century French Philosophers*, edited by Phillipe Hammou. London: Thoemmes.

Review of Jürgen Renn, *Galileo in Context*, in *Early Science and Medicine*, volume 9 (2004): 55-59.

Review of James Franklin, *The Science of Conjecture: Evidence and Probability before Pascal*, in *The Journal of Philosophy, Science, and Law*. volume 3 (2003), online at <http://www.psljournal.com/archives/bookReview/franklin.cfm>

Review of Antonella Romano, *La Contre-Reforme Mathématique: Constitution et Diffusion d'une Culture Mathématique Jésuite à la Renaissance*. *Isis* 92 (2001): 386-7.

Articles “Brouncker”, “Hobbes”, “Roberval”, “Series”, and “Wallis” in *The Encyclopedia of the Scientific Revolution from Copernicus to Newton*. Ed. Wilbur Applebaum. Garland Publishing, 2000.

Review of Michael Esfeld, *Mechanismus und Subjektivität in der Philosophie von Thomas Hobbes*. *Isis* 89 (1998): 338-339.

Review of Paolo Mancosu, *Philosophy of Mathematics and Mathematical Practice in the Seventeenth Century*. *Philosophical Review* 107 (1998): 146-148.

Biobibliographic Essays “Hooke”, “Kepler”, “Newton”, “Oldenburg”, “Wallis” in *The Cambridge History of Seventeenth-Century Philosophy*, ed. Michel Ayers and Daniel Garber ; Cambridge University Press, 1998.

Review of Peter Dear, *Discipline and Experience: The Mathematical Way in the Scientific Revolution*. *Technology and Culture* 38 (1997): 756-758.

Review of Fontenelle, *Éléments de la Géométrie de l'infini*, ed. Michel Blay and Alain Niderst. *Isis* 87 (1996): 549-550.

Review of Robert G. Muehlman, ed. *Berkeley's Metaphysics: Structural, Interpretive, and Critical Essays*. *Archiv für Geschichte der Philosophie* 79 (1996): 115-118.

Review of Michel Blay, *Les raisons de l'infini: Du monde clos à l'univers mathématique*. *Isis* 86 (1995): 325-326.

Review of Alan Musgrave, *Common Sense, Science, and Skepticism*. *Isis* 86 (1995): 147.

Review of *Past Masters* texts and database on Berkeley. *Archiv für Geschichte der Philosophie* 75 (1993): 95-96.

Review of Margaret Atherton, *Berkeley's Revolution in Vision*. *Journal of the History of Philosophy* 30 (1992): 306-307.

Review of Niccolò Guicciardini, *The development of Newtonian calculus in Britain: 1700-1800*. *Philosophy of Science* 54 (1992): 700-701.

Review of Andrea Napoli (ed.), *Hobbes Oggi* and Yves Charles Zarka and Jean Bernhardt (eds.), *Thomas Hobbes: Philosophie première, théorie de la science et politique*. *Isis* 83 (1992): 320-322.

Review (with Roger Ariew) of William Wallace, *Galileo and his Sources*. *Archiv für Geschichte der Philosophie* 71 (1989): 89-94.

PRESENTATIONS:

- “Hobbes, History, and *Scientia*,” Presented to the meeting of the International Society for Intellectual History, London, April, 2007.
- “Hobbes on History as a Source of Knowledge,” presented to the Philosophy Dept., Virginia Tech, April 2007
- “Truth in Fiction: Leibniz on the Fictionality of Infinitesimal Magnitudes,” presented at the conference *The Metaphysical and Mathematical Theories of the Infinitesimal in Leibniz’s Time*, Emory University, March 30-April1, 2006; also presented to the Philosophy Dept, NC State University October, 2006.
- “Descartes, Pascal, and the Epistemology of Mathematics: The Case of the Cycloid,” presented at the conference *Descartes and Pascal*, University of South Florida, Jan 13-15, 2006.
- “Geometry, Theology, and Politics: Context and Consequences of the Hobbes-Wallis Dispute,” presented at the conference *Wahrheit im Diskurs? Das agonale Moment in der öffentlichen Debatte* Potsdam, Germany, December 16-17, 2004.
- “Galileo, Hobbes, and the Book of Nature,” presented at the conference *Receptions of Galileo*, Virginia Tech, March 14-16, 2003.
- “Faith and Fluxions: Berkeley on Theology and Mathematics,” presented at the International *George Berkeley Conference*, Texas A&M, April 3-5, 2003.
- “Hobbes on Rigorous Demonstration: Theory meets Practice,” presented at the philosophy of mathematics graduate seminar, Notre Dame University, April, 2003; NEH Summer Seminar on Leibniz, Blacksburg, VA, July, 2003, and presented to the Stanford University workshop on Logic and the Humanities, March, 2004, Ecole Normale Superieur, Paris, December, 2004.
- “Descartes and British Philosophy,” at the conference “Receptions of Descartes,” Duke University, March 14-17. 2002
- “Mind, Matter, and Language in Hobbes and Descartes,” presented to the workshop “Materialism and the Mental” at Rutgers University, November, 2001.
- “Leibniz, Bramhall, and Hobbes on Free Will and Divine Justice,” Seventh International Leibniz Congress, Technische Universität Berlin. Berlin, September, 2001.
- “Hobbesian Mechanics,” presented to the Committee on Conceptual and Historical Studies of Science, University of Chicago, February, 2001; History of Science Program, University of Minnesota, April, 2001.
- “Hobbes and Descartes on Physics, Metaphysics, and the Possibility of Theology,” presented to a joint meeting of the Midwest Seminar in the History of Early Modern Philosophy and the Centre d’Études Cartésiennes at the conference “Descartes et ses Adversaires,” Paris, Université de Paris-Sorbonne (Paris IV) December 12-14, 2000.
- “Hobbes’s Atheism,” presented to the NEH Summer Seminar “Descartes and His Contemporaries,” Virginia Tech, July, 2000; Philosophy Dept., Macalester College, April, 2001.
- “Hobbes, the Jesuits, and Mathematical Method,” History of Science Society/Philosophy of Science Association Joint Meeting. Kansas City, MO, October 14-16, 1998.
- “The Decline and Fall of Hobbesian Geometry,” Midwest Seminar in the History of Early Modern Philosophy, December, 1996; Philosophy Dept., University of North Carolina at Chapel Hill, Feb, 1998; Science Studies Program, Virginia Tech, March, 1998.
- “Hobbesian Mathematics and the Sociology of Knowledge,” Triangle Intellectual History Seminar, Durham, NC, February 18, 1996.
- “Between Something and Nothing: Leibniz, Wallis, and Johann Bernoulli on the Infinitely Small.” *Leibniz in the 90s*, Conference at Virginia Tech, Blacksburg, VA, March, 1995.
- “Replies to Mancosu and Atherton,” presented at the “Author Meets Critics” symposium on *Berkeley’s Philosophy of Mathematics*. APA Eastern Division Meetings. Boston, MA, December, 1994.
- “Leibniz and the Foundations of the Calculus: The Question of the Reality of Infinitesimal Magnitudes,” *Leibniz and the Sciences*, Dibner Institute for the History of Science and Technology, MIT, December, 1994.

PRESENTATIONS (CONT.):

- “Hobbes, Wallis, and the Universities: Steps toward and Understanding of the Hobbes-Wallis Dispute,” presented to the Virginia Tech Seminar in the History and Philosophy of Science Blacksburg, VA, October, 1993.
- “Berkeley and Mathematics,” *Berkeley: The Old World and the New*. International Berkeley Society Conference, Newport, RI, March 1992.
- “Hobbes on Mathematical Method,” *Six Objectors to Descartes “Meditations”*. Conference sponsored by the NEH. Blacksburg, VA, March, 1992.
- “Reflections on the Revolution in Vision: Berkeley on Representation and Geometry,” APA Central Division Meetings, Chicago, April 1991.
- “Remarks on Drebuschenko's Account of Berkeley and Abstraction,” APA Central Division Meetings, Chicago, April, 1991.
- “Hobbes and Wallis on the Angle of Contact: A Study in the History and Philosophy of Mathematics,” APA Central Division Meetings, New Orleans, April 1990.
- “Instrumentalism and Philosophy of Mathematics in Berkeley's *Analyst*,” APA Eastern Division Meetings, Atlanta, December, 1989.
- “Rigorous Proof and the History of Mathematics: Comments on Crowe,” *Pierre Duhem: Historian and Philosopher of Science*, Conference at Virginia Tech, Blacksburg, VA, March, 1989.
- “Nadler on Berkeley and God's Pain,” APA Eastern Division Meetings, Washington, December, 1988.

WORKS IN PROGRESS:

EDITIONS AND TRANSLATIONS:

The Clarendon Edition of the Works of Thomas Hobbes. I am editing three volumes of Hobbes's mathematical publications for the Oxford University Press edition of Hobbes *Works*.

ARTICLES:

“Hobbes and Skepticism.” This essay examines Hobbes's relationship to classical skepticism, focusing on his distinction between absolute and conditional knowledge. I show that Hobbes thought that traditional skeptical arguments could be overcome by a process of definition that would render the foundations of all knowledge immune to doubt. This is particularly clear in his approach to the epistemology of mathematics.

EDITED COLLECTIONS:

Leibniz and the Infinitesimal (co-edited with Ursula Goldenbaum) Proceedings of the March, 2006 Loemker Conference at Emory University. The collection comprises 14 papers on theories of the infinitesimal as understood by Leibniz and his contemporaries.

PROFESSIONAL ACTIVITIES:

Co-Chair, International Society for the History of Philosophy of Science (HOPOS), 2006 meeting in Paris.

Organizer, Southeastern Seminar in the History of Early Modern Philosophy (1994-).

Organizer, Midwest Seminar in the History of Early Modern Philosophy (1990-92).

Participant, NEH Summer Institute in History of Modern Philosophy, Brown University, June-July, 1988

Referee, *Archiv für Geschichte der Philosophie*, *Canadian Journal of Philosophy*, *Canadian Journal of Political Science*, *Historia Mathematica*, *Isis*, *Journal of the History of Ideas*, *Journal of the History of Philosophy*, *Mathematics Magazine*, *Noûs*, *Perspectives on Science*, *Philosophical Review*, *Renaissance Quarterly*, *The Review of Politics*, *Science in Context*, *Studies in History and Philosophy of Science*.

PROFESSIONAL ACTIVITIES (CONT.):

Referee, Oxford University Press, Cambridge University Press, University of Chicago Press, Yale University Press, Princeton University Press.

Referee, NEH, NSF, National Humanities Center.

Contributing Reviewer, *Mathematical Reviews*.

Member, American Philosophical Association, American Mathematical Society, History of Science Society, International Society for Intellectual History, International Society for the History of the Philosophy of Science, International Berkeley Society, International Hobbes Association, Leibniz Society of North America.

AREAS OF SPECIALIZATION:

History of Modern Philosophy, History and Philosophy of Mathematics

AREAS OF COMPETENCE:

Philosophy of Mathematics, Logic, Philosophy of Science

LANGUAGES:

German, Latin, French, Italian (in decreasing order of competence)

REFERENCES:

Prof. Daniel Garber
Philosophy Dept.
1879 Hall
Princeton University
Princeton, NJ 08544
dgarber@princeton.edu

Prof. Michael Friedman
Philosophy Dept.
Building 100
Stanford University
Stanford, CA 94305-2155
mlfriedman@stanford.edu

Prof. Don Garrett
Philosophy Dept
503 Silver Center
100 Washington Square E
New York, NY 10003
don.garrett@nyu.edu

Prof. Edwin Curley
Philosophy Dept.
2231 Angell Hall
University of Michigan
Ann Arbor, MI 48109
emcurley@umich.edu