

Thomas M. Powers, Ph.D.

PROFESSIONAL ADDRESSES

Department of Philosophy
University of Delaware
24 Kent Way
Newark, DE 19716
(302) 831-3229

ACADEMIC APPOINTMENTS

University of Delaware: Associate Professor of Philosophy (2013-) and Public Policy and Administration (2012-), Resident Faculty, Delaware Biotechnology Institute (2006-), Assistant Professor (2006-13), Visiting Assistant Professor 2005-06

Université Pierre et Marie Curie (Paris VI of the Sorbonne Universités): Visiting Researcher, Laboratoire d'Informatique – Équipe: Agents Cognitifs et Apprentissage Symbolique Automatique, (Fall 2015)

University of Virginia: NSF Research Fellow, School of Engineering and Applied Science (2003-05)

Santa Clara University: Lecturer in Philosophy (1997-2003); Adjunct Professor, Computer Engineering (2000-03)

Central Michigan University, Visiting Assistant Professor of Philosophy (1996-97)

College of William & Mary, Visiting Assistant Professor of Philosophy (1995-96)

OTHER APPOINTMENTS

Director, UD Center for Science, Ethics & Public Policy (2011-) & Program for SEPP (2007-11)

Director of the IACAP Minds & Machines Special Interest Group (2016-)

Council of Community Engagement and Public Service Centers, UD (2016-)

Associate Editor, Springer: *Philosophy & Technology* (2014-)

Online Ethics Center leadership team and international perspectives editorial board leader

State of Delaware Health and Social Services Human Subjects Review Board (2013-)

University of Delaware Institutional Review Board (2011-14)

Stanford Encyclopedia of Philosophy Editorial Board, Subject Editor for "Ethics and Information Technology" section (2010-)

EDUCATION

University of Texas, Austin: Ph.D. in Philosophy. Dissertation: "Formalism in Kant's Ethics" 1995

Ludwig-Maximilians-Universität, Munich: DAAD-Fulbright dissertation-year fellow, 1993-1994

College of William and Mary: B.A. in Philosophy (with high honors), 1987

AREAS OF RESEARCH

Ethics (Environmental, Scientific Research, Information and other Emerging Technologies)

PUBLICATIONS

Edited Books

Philosophy and Computing: Essays in Epistemology, Philosophy of Mind, Logic, and Ethics, ed. TM Powers, Springer Publishing (forthcoming)

From Kant to Weber: Freedom and Culture in Classical German Social Theory, eds. T. Powers and P. Kamolnick, Krieger Publishing, 1999

Articles, Chapters, and Proceedings

Powers, TM and Shah, SI (forthcoming). Technological Ethics in Context: The Case of Nanotechnology, in *Philosophy: Technology*, ed. AF Beavers, Gale Cengage: Macmillan Interdisciplinary Handbooks

Powers, TM (2016). Prospects for a Kantian Machine, in *Machine Ethics and Robot Ethics*, eds. W. Wallach and P. Asaro, Ashgate Publishing/Routledge 2017 paperback [republishing of Powers TM (2006)]

Shah, SI and Powers, TM (2015). Nanotechnology: a Path Forward for Developing Nations, *Institute of Physics Conference Series* 92

Powers, TM (2014a). Consequentialism, in *Ethics, Science, Technology and Engineering: A Global Resource*, 2nd Edition, ed. J. Britt Holbrook, Macmillan Reference USA [revision of Powers, TM 2005c]

Powers, TM (2014b). Deontology, in *Ethics, Science, Technology and Engineering: A Global Resource*, 2nd Edition, ed. J. Britt Holbrook, Macmillan Reference USA [revision of Powers, TM 2005d]

Powers, TM (2014c). Models for Machine Ethics, *APA Newsletter on Philosophy and Computers* 14 (1)

Powers, TM (2014d). Orientation in Philosophical Research, *APA Newsletter on Philosophy and Computers* 13 (2)

Johnson, DG and Powers, TM (2014e). Ethics and Technology: A Program for Future Research in *Society, Ethics, and Technology*, 5th edition, eds. M. Winston and R. Edelbach, Wadsworth Publishing, Boston Mass. [republishing of Johnson & Powers (2005b)]

Powers, TM (2014f). Review of *Emerging Pervasive Information and Communication Technologies: Ethical Challenges, Opportunities, and Safeguards*, ed. KD Pimple, 2014, in *Journal of Philosophy, Science & Law* 14, pp. 1-5.

Powers, TM and Shah, SI (2013a). Teaching a Course on Ethics in Nanoscience, *Journal of Nano Education* 5, 1-6

Powers, TM (2013b). On the Moral Agency of Computers, *Topoi: An International Review of Philosophy* 32 (2)

Powers, TM (2011a). Prospects for a Kantian Machine, in *Machine Ethics*, eds. M. Anderson and S. Anderson, Cambridge University Press [republishing of Powers TM (2006)]

Powers, TM (2011b) Incremental Machine Ethics, *IEEE Robotics and Automation* 18 (1)

Powers, TM (2009a). Machines and Moral Reasoning, *Philosophy Now* 72

Powers, TM (2009b). Preface, in *Creating a Global Dialogue on Value Inquiry*, J. Yan & D. Schrader (eds.), Edwin Mellen Press

Powers, TM (2008a). Environmental Holism and Nanotechnology, in *Nanotechnology and Society: Current and Emerging Ethical Issues*, eds. F. Allhoff and P. Lin, Springer Publishing

Johnson, DG, and Powers, TM (2008b). Computers as Surrogate Agents, in *Information Technology and Moral Philosophy*, eds. M. J. van den Hoven and J. Weckert, Cambridge University Press

-
- Powers, TM (2006). Prospects for a Kantian Machine, *IEEE Intelligent Systems* 21 (4)
- Johnson, DG, and Powers, TM (2005a). Computer Systems and Responsibility: A Normative Look at Technological Complexity, *Ethics and Information Technology* 7(2), Kluwer Publishing
- Johnson, DG, and Powers, TM (2005b). Ethics and Technology: A Program for Future Research, in *Encyclopedia of Science, Technology, and Ethics*, ed. C. Mitcham, Gale Publishing
- Powers, TM (2005c). Consequentialism, in *Encyclopedia of Science, Technology, and Ethics*, ed. C. Mitcham, Gale Publishing
- Powers, TM (2005d). Deontology, in *Encyclopedia of Science, Technology, and Ethics*, ed. C. Mitcham, Gale Publishing
- Powers, TM (2005e). Deontological Machine Ethics, *Technical Report*, American Association for Artificial Intelligence, Palo Alto, 2005
- Powers, TM (2004a). Ideas, Expressions, Universals, and Particulars: Metaphysics in the Realm of Software Copyright Law, in *Intellectual Property Rights in a Networked World*, H. Tavani and R. Spinello, Idea Group Publishing
- Powers, TM (2004b). Real Wrongs in Virtual Communities, *Ethics and Information Technology* 5 (4), Kluwer Publishing
- Powers, TM (2002). Responsibility in Software Engineering: Uncovering an Ethical Model, in *The Transformation of Organizations in the Information Age: Proceedings of the Sixth International ETHICOMP Conference*, Universidade Lusitana de Lisboa
- Powers, TM (1999a). The Legacy of Kantian Rationalism for Social Theory, in *From Kant to Weber: Freedom and Culture in Classical German Social Theory*, eds. T. Powers and P. Kamolnick, Krieger Publishing
- Powers, TM (1999b). The Integrity of Body: Kantian Moral Constraints on the Physical Self, in *Philosophy and Medicine* 60, Kluwer Publishing

GRANT FUNDING

1. NSF REU SITE: Interfacing Sustainable Energy and Materials, 2015-18, Senior Personnel (\$360,577)
2. Supplement to NSF SES "Becoming the Online Resource Center for Ethics Education in Engineering and Science" (with the National Academy of Engineering, PI R. Hollander), 2014-2019, Delaware Lead Investigator, (\$209,239)
3. NSF IGERT Systems Biology in Engineered Environments, 2012-17, Faculty Personnel, (\$3 million)
4. USDA/NIFA International Science and Education "Agriculture's Global Challenges: Food Security, Bioenergy, and Biodiversity Building Educational and Research Partnerships with Brazil," 2011-14, Co-PI (\$150,000)
5. NSF OISE International Workshop on Environmental Nanotechnology & Ethics, 2011, Co-PI (\$63,560)
6. NSF EPSCoR Research Infrastructure Improvement Grants (2), 2007-2013, Co-PI (\$20.5 million)
7. NSF Nanoscale Undergraduate Education for Alternative Energy Grant, 2009-2012, Co-PI (\$418,806)
8. Delaware Humanities Forum Grant, 2009, Principal Investigator, (\$13,000)
9. Nanomaterials & Nanoethics, Lahore, Pakistan (organizing committee) December 2011
10. Philosophical Collaboration: Theoretical and Practical Considerations, Pacific Division Meeting of the American Philosophical Association, San Diego CA, April 2011

-
11. Ethics in Nanoscience Workshop (co-organizer with Ismat Shah), University of Delaware April 2011
 12. The Ethics of Climate Change: Intergenerational Justice and the Global Challenge (with Fred Schueler), University of Delaware/American Philosophical Association, October 2009
 13. Environmental Nanoparticles: Science, Ethics, and Policy (with Don Sparks), University of Delaware, November 2008
 14. Environment, Energy, Ethics: Science and Responsibility for the 21st Century (with Mark Greene), University of Delaware/American Philosophical Association, September 2007
 15. New Directions in Ethics and Technology (with D. Johnson and J. Wetmore), University of Virginia, October 2004
 16. 22nd Annual Austin J. Fagothey Philosophy Conference, "Nietzsche and Transvaluation" Santa Clara University, February 2000
 17. Software Ethics Workshop, (with R. Danielson and L. Seiter), Santa Clara University, May 1999

PROFESSIONAL SERVICE

National Science Foundation Proposal Review Panels, 2014-16

International Association for Computing and Philosophy Executive Board, 2016-

Editorial Advisory Board, *Techné: Research in Philosophy and Technology*, 2016-

Board of Management, Consortium for Socially-Relevant Philosophy of/in Science and Engineering (SRPoiSE), 2014-

Committee on Philosophy and Computers, American Philosophical Association, Chair 2013-16, Associate Chair 2012-13

AAAS Science & Human Rights Coalition, Ethics and Human Rights Working Group, 2012-

Committee on Bioethics and Ethics in Science of the *Fédération Internationale des Sociétés de Philosophie* (FISP)

Committee on Public Philosophy, American Philosophical Association, Member 2009-2012

Faculty Affiliate, Delaware Environmental Institute, University of Delaware

Faculty Affiliate, Center for Critical Zone Research, University of Delaware

Advisory Board, *Studies in Ethics, Law, and Technology*

Advisory Board, *The Nanoethics Group* (www.nanoethics.org)

Ethics Advisory Board, *The Lifeboat Foundation* (www.lifeboat.com)

Faculty Scholar, Markkula Center for Applied Ethics, Santa Clara University, 1997-2003