

6/2023

Thomas M. Powers, Ph.D.

PROFESSIONAL ADDRESSES

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

Harker Interdisciplinary Science and Engineering Laboratory
University of Delaware
221 Academy Street, Room 471
Newark, DE 19716

AREAS OF RESEARCH

Ethics of Emerging Technologies (especially Artificial Intelligence), Philosophy of Technology

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, Williamsburg: B.A. in Philosophy (with high honors), 1987

ACADEMIC APPOINTMENTS

University of Delaware: Associate Professor of Philosophy (2013-), Assistant Professor (2006-13), Temporary Assistant Professor 2005-06; Delaware Biotechnology Institute, Resident Faculty (2006-17), Affiliate (2017-); Joint Appointments: Biden School of Public Policy and Administration (2012-), Linguistics and Cognitive Science (2012-)

Universitat des les Illes Balears: Visiting Research Professor (summer 2018)

Sorbonne University: Visiting Researcher, Laboratoire d'Informatique (UPMC) – Équipe: Agents Cognitifs et Apprentissage Symbolique Automatique, (Fall 2015, Winter 2018, Summer 2019, Winter 2019)

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 SERVICE ROLES & APPOINTMENTS

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

UD Faculty Affiliations: Delaware Environmental Institute (2013-); Data Science Institute (2018-); Center for Autonomous and Robotic Systems (2019-); Master of Science in Robotics (2019-); Sociotechnical Systems Center (2020-); Artificial Intelligence Center of Excellence (2022-)

Delaware Humanities Board of Directors (2023-)

UD Provost's Committee on AI in Teaching and Learning (2023-)

UD Graduate College Doctoral Fellowship for Excellence Review Committee (2023)

UD VP for Research, Scholarship and Innovation Search Panel (2022-23)

UD Data Science Institute Faculty Council (2022-)

UD Strategic Planning Committee on Expanding Interdisciplinary and Global Opportunities (2021)

UD Provost Search Committee (2017 & 2021)

UD Dissertation Fellowship Review Committee (2021-22)

UD Faculty Senate Committee On Committees And Nominations (2020-)

UD Academic Committee on Sustainability (2020-)

UD Graduate College Council (2019-) alternate

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

UD Institutional Review Board alternate (2011-14) and voting member (2013)

UD Respect Committee (2015-17)

International Jury, Artificial and Natural Intelligence Toulouse Institute, France (2023)

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

National Academy of Engineering Online Ethics Center, Leadership Team and International Perspectives Editor (2015-)

International Association for Computing and Philosophy, Executive Board and Director of Minds & Machines SIG (2016-)

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

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

American Philosophical Association, Committee on Philosophy & Computers Chair (2013-16), Associate Chair (2012-13)

PUBLICATIONS

Edited Books

Powers, TM, editor (2017). *Philosophy and Computing: Essays in Epistemology, Philosophy of Mind, Logic, and Ethics*, Springer Publishing

Powers, TM, and Kamolnick, P, editors (1999). *From Kant to Weber: Freedom and Culture in Classical German Social Theory*, eds., Krieger Publishing

Articles, Chapters, and Proceedings

Powers, TM (forthcoming). Understanding Socio-Technical Systems, in *Computer Ethics Across the Disciplines*, eds. M Verdicchio and M Noorman, Springer Philosophy of Engineering and Technology book series, Berlin

Powers, TM (forthcoming). Artificial Moral Dispositions in Humans and Computers, in *Artificial Dispositions: Investigating Ethical and Metaphysical Issues*, eds. A Marmodoro and WA Bauer, Bloomsbury Publishing, London

Dubljević, V, G List, J Milojevich, N Ajmeri, WA Bauer, MP Singh, E Bardaka, TA Birkland, CHW Edwards, RC Mayer, I Muntean, TM Powers, HA Rakha, VA Ricks, and MS Samanta (2021). Toward a rational and ethical sociotechnical system of autonomous vehicles: A novel application of multi-criteria decision analysis, *PLoS ONE*

Robinson, P, A Sun, H Furey, R Jenkins, CR Phillips, TM Powers, R Ritterson, Y Xie, R Casagrande, and N.G. Evans (2021). Modelling Ethical Algorithms in Autonomous Vehicles Using Crash Data, in *IEEE Transactions on Intelligent Transportation Systems*

- Powers, TM, and Ganascia, JG, (2020). The Ethics of the Ethics of Artificial Intelligence, in *Oxford Handbook of Ethics of AI*, eds. M Dubber, F Pasquale, and S Das, Oxford University Press
- Tolmeijer, S, A Weiss, M Hanheide, F Lindner, TM Powers, C Dixon, and M Tielman (2020). Taxonomy of Trust-Relevant Failures and Mitigation Strategies, in *Proceedings of Human Robot Interaction 2020 (HRI '20)*, ACM, New York, NY, USA.
- Ganascia, JG, C Tessier, and TM Powers, (2018). On the autonomy and threat of “killer robots” *APA Newsletter on Philosophy and Computers* 17 (2)
- Powers, TM (2017). Intersecting Traditions in the Philosophy of Computing, in *Philosophy and Computing: Essays in Epistemology, Philosophy of Mind, Logic, and Ethics*, ed. TM Powers, Springer Publishing
- Powers, TM and Shah, SI (2017). 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 (2014). Consequentialism, in *Ethics, Science, Technology and Engineering: A Global Resource*, 2nd Edition, ed. JB Holbrook, Macmillan Reference USA [revision of Powers, TM (2005)]
- Powers, TM (2014). Deontology, in *Ethics, Science, Technology and Engineering: A Global Resource*, 2nd Edition, ed. JB Holbrook, Macmillan Reference USA [revision of Powers, TM (2005)]
- Powers, TM (2014). Models for Machine Ethics, *APA Newsletter on Philosophy and Computers* 14 (1)
- Powers, TM (2014). Orientation in Philosophical Research, *APA Newsletter on Philosophy and Computers* 13 (2)
- Johnson, DG and Powers, TM (2014). 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 (2005)]
- Powers, TM and Shah, SI (2013). Teaching a Course on Ethics in Nanoscience, *Journal of Nano Education* 5, 1-6
- Powers, TM (2013). On the Moral Agency of Computers, *Topoi: An International Review of Philosophy* 32 (2)
- Powers, TM (2011). Prospects for a Kantian Machine, in *Machine Ethics*, eds. M. Anderson and S. Anderson, Cambridge University Press [republishing of Powers TM (2006)]
- Powers, TM (2011). Incremental Machine Ethics, *IEEE Robotics and Automation* 18 (1)
- Powers, TM (2009). Machines and Moral Reasoning, *Philosophy Now* 72
- Powers, TM (2009). Preface, in *Creating a Global Dialogue on Value Inquiry*, J. Yan & D. Schrader (eds.), Edwin Mellen Press
- Powers, TM (2008). 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 (2008). Computers as Surrogate Agents, in *Information Technology and Moral Philosophy*, eds. MJ 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 (2005). Computer Systems and Responsibility: A Normative Look at Technological Complexity, *Ethics and Information Technology* 7(2), Kluwer Publishing
- Johnson, DG, and Powers, TM (2005). Ethics and Technology: A Program for Future Research, in *Encyclopedia of Science, Technology, and Ethics*, ed. C Mitcham, Gale Publishing
- Powers, TM (2005). Consequentialism, in *Encyclopedia of Science, Technology, and Ethics*, ed. C Mitcham, Gale Publishing
- Powers, TM (2005). Deontology, in *Encyclopedia of Science, Technology, and Ethics*, ed. C Mitcham, Gale Publishing
- Powers, TM (2005). Deontological Machine Ethics, *Technical Report*, American Association for Artificial Intelligence, Palo Alto, 2005

- Powers, TM (2004). 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 (2004). 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 Lusiana de Lisboa
- Powers, TM (1999). The Legacy of Kantian Rationalism for Social Theory, in *From Kant to Weber: Freedom and Culture in Classical German Social Theory*, eds. TM Powers and P Kamolnick, Krieger Publishing
- Powers, TM (1999). The Integrity of Body: Kantian Moral Constraints on the Physical Self, in *Philosophy and Medicine* 60, Kluwer Publishing.

Book Reviews

- Powers, TM (2019). Review of *Living with Robots* by Paul Dumouchel and Luisa Damiano, Cambridge, MA: Harvard University Press, 2017, in *Philosophy, Theology and the Sciences*, pp. 211-14.
- Powers, TM (2014). 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.

FUNDED RESEARCH

1. UNIDEL Foundation, Communications Training for UD Researchers, University of Delaware, Collaborator 2021-24, (\$167,608)
2. NSF HDR: Delaware and Mid-Atlantic Data Science Corps, 2021-24, University of Delaware, Key Personnel, (\$1.5 million)
3. Herman & Charlotte Glotzer Scholarship on the Study of Ideas, University of Delaware, 2019, Principal Investigator (\$4,000)
4. NSF REU SITE: Interfacing Sustainable Energy and Materials, 2015-18, Senior Personnel (\$360,577)
5. 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)
6. NSF IGERT Systems Biology in Engineered Environments, 2012-17, Faculty Personnel, (\$3 million)
7. 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)
8. NSF OISE U.S.-Pakistan Workshop on Environmental Nanotechnology & Ethics, 2011, Co-PI (\$60,000)
9. NSF & DE EPSCoR Research Infrastructure Improvement Grant (RII-2), 2008-2013, Co-PI (\$20.5 million)
10. NSF NUE Connecting Nanotechnology and Alternative Energy Approaches through Undergraduate Education in Engineering, 2009-13, Co-PI (\$199,190)
11. Delaware Humanities Forum Grant, "The Ethics of Climate Change" 2009, Principal Investigator, (\$13,000)
12. American Philosophical Association Conference Grant for "The Ethics of Climate Change" 2009, Principal Investigator, with Fred Schueler (\$5,000)
13. NSF Research Experiences for Undergraduates, "Nature InSpired Engineering" University of Delaware, 2009-2012, Faculty Personnel
14. UD Graduate Improvement and Innovation Grant, RAISE-2, 2008-2009, Principal Investigator (\$67,000)
15. NSF EESE "RAISE: Research And Integrity in Science and Engineering" 2007-2009, Principal Investigator (\$99,800)
16. NSF New England Workshop on Science and Social Change "Collaborative Generation of Environmental Knowledge and Inquiry" Woods Hole, Mass., April 2007, Participant
17. NSF & DE EPSCoR Research Infrastructure Improvement Grant (RII-1), 2006-2008, Senior Personnel (\$6.67 million)
18. NSF Research Experiences for Undergraduates, "Creating Computer Applications for Medicine" University of Virginia, Summers 2005 and 2006, Ethics faculty personnel
19. NSF DOLCE Workshop on Teaching Computer Ethics, Golden, Co., May 2002, Participant

20. Center for Science, Technology, and Society Summer Faculty Research Grant, "Defining the Parameters of Undergraduate Web-based Research" Santa Clara University June 2000, Principal Investigator
21. Center for Science, Technology, and Society Summer Faculty Research Grant, "Developing a Text for the Philosophy Course: Science, Technology, and Ethics" Santa Clara University June 1999, Principal Investigator
22. School of Engineering Grant for Engineering Ethics, Santa Clara University, Summer 1999, Principal Investigator
23. University Curriculum Development Grant "Developing a New Graduate Course in Software Engineering Ethics" Santa Clara University 1998-99, Co-P.I.
24. Markkula Center for Applied Ethics Grant, Faculty Seminar on Affirmative Action, Santa Clara University 1998-99, Participant
25. NEH Summer Seminar on German Social Theory, University of Chicago, 1995, Participant

INVITED TALKS AND PRESENTATIONS

1. "Can AIs Behave Themselves? Towards a Genuine Machine Ethics" European and North American Workshop on the Ethics of Artificial Intelligence, Rome, Italy, October 2022
2. "Corporate Robotic Responsibility" International Association for Computing and Philosophy (IACAP), Santa Clara, July 2022
3. "'The Right' and 'The Good' in STEM Ethics" UD Materials Research Society, March 2021
4. "What are the Ethics of Data Science and AI?" UD Center for Bioinformatics and Computational Biology, March 2021
5. "A Data Ethics Ontology" UD Computational Social Science Symposium, October 2020
6. "Considerations of the Ethics of AI" IEEE Delaware Bay Section, October 2020
7. "The Predicament of the Ethics of AI" North Carolina State University, February 2020
8. "Machine Ethics: Philosophical Approaches" Dagstuhl seminar on "Ethics and Trust: Principles, Verification and Validation," *Leibniz-Zentrum für Informatik*, Germany, April 2019
9. "Computational Data Science: Epistemological and Ethical Challenges" Keynote Address, International Association for Computing and Philosophy, Warsaw, Poland, June 2018
10. "Answering CP Snow's 'Two Cultures': Doing Philosophy *with* Science" Universitat des les Illes Balears, Spain, June 2018
11. "Artificial Intelligence, Automation, and Autonomy" Workshop on the Regulation of Artificial Intelligence, University of Surrey School of Law, Surrey, England, March 2018
12. "Globalizing Science and Engineering Ethics: Convergence or Equilibrium?" Society for Philosophy and Technology, Darmstadt, Germany, June 2017
13. "The Ambivalent Ethics of Autonomous Vehicles" Transport Futures: Mobility Pricing and Automated Vehicles Conference, Toronto, November 2016
14. "Perspicuous Normative Language" Automated Vehicles Symposium, San Francisco July 2016
15. "Understanding International Perspectives in Science and Engineering Ethics" American Society for Engineering Education, New Orleans, June 2016
16. "Towards a Prescriptive Deontological Non-Monotonic Machine Ethics" (with Jean-Gabriel Ganascia), IACAP, Ferrara Italy, June 2016
17. "Robots: Ethical, Social, and Legal Issues" Osher Institute, Wilmington, Delaware, April 2016
18. "Nanotechnology: A Path Forward for Developing Nations" (with Ismat Shah), Science in the Developing World Workshop, University of Waterloo, Canada, September 2015
19. "Top-down Machine Ethics" Pacific Division Meeting of the American Philosophical Association, Vancouver, April 2015
20. "Science and Ethics: A Shifting Relationship" Delaware Environmental Institute, Wilmington, February 2015
21. "Can There Be an Ethics of Design?" SRPoiSE Group Meeting, Eastern Division Meeting of the American Philosophical Association, Philadelphia, December 2014

22. "Information Justice" Eastern Division Meeting of the American Philosophical Association, Philadelphia, December 2014
23. "The Ethics of High-Tech Warfare" Pennsylvania Alliance for STEM Education, West Chester Pennsylvania, November 2014
24. "The Promise and Peril of Principles in Research Ethics" (with Mark Greene) 9th Annual Nursing Research Conference, Newark Delaware, November 2014
25. "Safety, Privacy, and Meta-Data" (with Eric Best) Computer Ethics--Philosophical Enquiry, Paris France, June 2014
26. "Parameters and Information Sources for an Autonomous Robot" (Panel Session on Ethics and Autonomous Agents) Computer Ethics--Philosophical Enquiry, Paris, June 2014
27. "The Ethics of the Bioenergy Market" Brazil Symposium: Global Challenges in Agriculture, Environment, and Energy, Newark Delaware, May 2014
28. "The Public Computer System and Accountability" Northeast Conference on Public Administration, Newark Delaware, November 2013
29. "Prospects for a Smithian Machine" International Association for Computing and Philosophy, College Park, Maryland, July 2013
30. "Environmental Ethics and Nanotechnology" Joint International Workshop on Nanotechnology: Policy, Ethics and Science, Islamabad, Pakistan March 2013
31. "A New Naturalism for Environmental Ethics" University of Genoa, Italy, January 2013
32. "Teaching Ethics to Scientists: Why Rules and Consequences Matter" University of Miami, September 2012
33. "Teaching a Course in Ethics in Nanoscience" AAAS Science & Human Rights Meeting, Washington D.C., July 2012
34. "Explaining Technological Action" Delft University of Technology, the Netherlands, July 2012
35. "Aggregation and Future Individuals" International Conference on Interpretive Policy Analysis, Tilburg University, the Netherlands, July 2012
36. "Science-related Ethics and Public Policy Research" Universidade Federal de Lavras, Brazil, April 2012
37. "Cases and Methods in Research Ethics" Medical Society of Delaware Spring CME Symposium, Newark DE, April 2012
38. "Decision Procedures for Nanotechnology Development" 3rd Int'l Conference on Nanotechnology (Al Ain, U.A.E.), December 2011
39. "Decision Procedures for Nanotechnology Development" ISESCO-COMSATS-NSF Int'l Conference on Nanomaterials & Nanoethics (Lahore, Pakistan), December 2011
40. "Fabrics of Science: Quine and the Possibility of Collaboration" Pacific Division Meeting of the American Philosophical Association, San Diego, April 2011
41. "The Machines are Here and are Driving Us: Allen and Wallach's *Moral Machines*" Pacific Division Meeting of the American Philosophical Association, San Francisco, April 2010
42. "Kantian Humanism and Human Enhancement" Oxford University, December 2009
43. "Author Meets Critics" session for Jerry Gaus (Kavka Prize in Political Philosophy), Pacific Division Meeting of the American Philosophical Association, Vancouver, April 2009
44. "Ethics and Biofuels: Distributive and Intergenerational Justice" Society of Toxicology Annual Meeting, Baltimore, March 2009
45. "Author Meets Critics" session for *Moral Machines* by C. Allen and W. Wallach, Annual Meeting of the Association for Practical and Professional Ethics, Cincinnati, March 2009
46. "Virtual Action Theory" Conference on Virtual Worlds and Interpretive Communities, University of Nevada, Las Vegas, February 2009
47. "Getting 'Good Science' Right: Research Ethics and the America COMPETES Act" California Polytechnic University, San Luis Obispo, February 2009
48. "AI and Eldercare" (invited ethics symposium speaker) Association for the Advancement of Artificial Intelligence Fall Symposium, November 2008
49. "Bioethics in a Time of Changing Technologies" Nemours Center for Pediatric Research, Delaware, September 2008
50. "The Ethics of Biofuels: Starving Peter to Drive Paul?" Plants & Soils: Montreal '08 (invited plenary symposium speaker) July 2008

51. "Neuroimaging and Philosophical Moral Psychology" Institute for Clinical Research, Montreal, July 2008
52. "Is Ethics Computable?" (invited plenary session panelist) North American Computing and Philosophy Conference (NA-CAP), Indiana, July 2008
53. "Smith and Kant on Moral Psychology" University of Delaware, April 2008
54. "Discovering Engineering Ethics in the Silicon Valley" American Society for Engineering Education Annual Conference, July 2007
55. "Design and Action: A Framework for the Philosophy of Engineering" University of North Carolina-Charlotte, February 2007
56. "Can There Be a Science of Ethics?" Delaware Biotechnology Institute, October 2006
57. "Distributive Justice and Information Technology" Georgia Tech School of Public Policy, January 2006
58. "Deontological Machine Ethics" Association for the Advancement of Artificial Intelligence Fall Symposium, November 2005
59. "An Account of the Moral Agency of Technology" University of North Texas, February 2005
60. "Towards a Kantian Critique of Technology (the Long Route)" Drexel University, January 2005
61. "On Richard De George's *The Ethics of Information Technology and Business*" Eastern Division Meeting of the American Philosophical Association, Boston, December 2004
62. "Normative Arguments and the Apparent Conflict of Values" University of Delaware General Education Institute, June 2004
63. "Intentionality and Moral Agency in Computers" European Computing and Philosophy (E-CAP), Pavia, Italy, June 2004
64. "Computers as Surrogate Agents" (with Deborah Johnson) ETHICOMP-Syros, Greece, April 2004
65. "How Much Theory: Towards a Meta-Applied Ethics" 13th Annual Meeting of the Association for Practical and Professional Ethics, Cincinnati, February 2004
66. "A Kantian Critique of Technology" Society for Social Studies of Science Annual Meeting, October 2003
67. "The World According to Kant" Philosophical Forum, Linköping, Sweden, September 2003
68. "The Moral Agency of Technology" University of Linköping, Sweden, September 2003
69. "Real Wrongs in Virtual Communities," Fifth International Conference of Computer Ethics - Philosophical Enquiry (CEPE), Boston College, June 2003
70. "Ideas, Expressions, Universals, and Particulars," Sixth Annual Ethics and Technology Conference, Boston College, June 2003
71. "The Computer Layer in Pedagogy" Pacific Division Meeting, American Philosophical Association and the Society for Philosophy and Technology, San Francisco, April 2003
72. "Responsible Computing: Towards a Policy for University Computer Use," Markkula Center for Applied Ethics, Santa Clara University, April 2003
73. "An Idiosyncratic Philosophy of Technology," TCC Colloquium, University of Virginia, January 2003
74. "Responsibility in Software Engineering: Uncovering an Ethical Model," ETHICOMP-Lisbon, November 2002
75. "Kantian Freedom and the Defeasible Conception of Dignity," Pacific Division Meeting of the American Philosophical Association, San Francisco, March 2002
76. "A Kantian Account of Dignity," Markkula Center for Applied Ethics, Santa Clara University, January 2001
77. "The Kantian Critique of Technology," San Jose Intercollegiate Philosophy Forum, November 2000
78. "Consistency and the Categorical Imperative," University of California at Santa Cruz, November 1997
79. "Some Problems with Kantian Ethical Formalism," Central Division Meeting, American Philosophical Association, Pittsburgh, May 1997
80. "Georg Simmel as a Neo-Kantian," Simmel Conference, University of Colorado at Boulder, April 1996
81. "The 'Object of Experience' in Kant's Critical Metaphysics," St. Joseph's University, February 1996
82. "Kantian Reflections on Bodies and Body-Parts," Northern Arizona University, January 1996

OTHER NATIONAL AND INTERNATIONAL ACTIVITIES

National Science Foundation Grant Proposal Review Panels: STS, AI & Society, and Graduate Research Fellowship Program, 2014-16, 2019, 2021, 2022

Swiss National Science Foundation Grant Proposal Reviewer, 2020

Netherlands Organization for Scientific Research (NWO) Grant Proposal Reviewer, 2017, 2019, 2021, 2022

Dagstuhl Seminar invited participant: "Ethics and Trust: Principles, Verification and Validation" Leibniz Center for Informatics, April 22 -26, 2019

Editorial Board, *International Journal of Technoethics*, 2020-

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

Reviewer for the journals *Medicine, Healthcare and Philosophy, IEEE Technology & Society, Science and Engineering Ethics, Minds & Machines, Idealistic Studies, mBio, Annals of Mathematics and Artificial Intelligence, International Journal of Human-Computer Interaction, Ethics and Information Technology, Journal of Business Ethics, Accountability in Research, Techne, Ethical Theory and Moral Practice, Journal of Agricultural and Environmental Ethics, AI & Society, Kriterion-Journal of Philosophy*

Advisory Board, *The Nanoethics Group*

Ethics Advisory Board, *The Lifeboat Foundation*

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

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