

Alex John London, Ph.D.

Clara L. West Professor of Ethics and Philosophy
Carnegie Mellon University
Curriculum Vitae

Department of Philosophy &
Center for Ethics and Policy
Carnegie Mellon University
Pittsburgh, PA 15213-3890
ajlondon@andrew.cmu.edu

1/20/23

<https://orcid.org/0000-0002-6450-0309>

<https://scholar.google.com/citations?user=x-pMK90AAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=7005248959>

EDUCATION

Ph.D. Philosophy, The University of Virginia, May 1999.

Dissertation: *Virtue, Wisdom, and the Art of Ruling in Plato*.

M.A. Philosophy, The University of Virginia, May 1996.

B.A. Philosophy and Literature, Bard College, May 1994.

AREAS OF SPECIALIZATION

Bioethics, Ethical Theory,
AI Ethics, Political Philosophy

AREAS OF COMPETENCE

Ancient Philosophy, Conflict Resolution
Wittgenstein, Criminal Justice Ethics

FACULTY APPOINTMENTS

2017-: Clara L. West Professor of Ethics and Philosophy, Carnegie Mellon University

2015-2020: Director, Ethics History and Public Policy Major.

2012-: Professor of Philosophy, Carnegie Mellon University.

2007-: Director, Center for Ethics and Policy, Carnegie Mellon University.

2005-2012: Associate Professor of Philosophy, Carnegie Mellon University.

2001: Affiliate Faculty Member, University of Pittsburgh, Center for Bioethics and Health Law.

2000-2005: Assistant Professor of Philosophy, Carnegie Mellon University.

1999-2000: Post-Doctoral Fellow, Center for Bioethics, University of Minnesota

1999: Instructor in Philosophy, The University of Virginia.

HONORS AND AWARDS

John & Marsha Ryan Bioethicist-in-Residence, Southern Illinois University School of Law, March 20-22, 2019.

Bruce E. Siegel Memorial Lecture, Mount Carmel Health System, Columbus Ohio, Nov. 14, 2018

Elliot Dunlap Smith Award for Distinguished Teaching and Educational Service, 2016 (college wide award for excellence in teaching).

Elected to the Hastings Center Fellows Council, 2014-2016.

Lehman Lecture, Allegheny College, March 12, 2014.

Elected Fellow of the Hastings Center, 2011.

Arkansas Medical Society Distinguished Lecture, Oct 4th, 2010.
Distinguished Service Award from the American Society for Bioethics and Humanities, 2007.

Nominated for World Technology Award in the category of Ethics, 2010.

GRANTS & FELLOWSHIPS

Ethics Core Co-lead, on Sonia Chernova (PI), “NSF AI Institute for Collaborative Assistance and Responsive Interaction for Networked Groups (AI-CARING) (Award Number [FAIN]: 2112633) \$ \$19,995,808; 10/1/21-9/30/2026.

Ethics Core, Executive Committee Member on Susan L. Mitchell and Vincent Mor (PIs), “NIA AD/ADRD Health Care Systems Research Collaboratory (NIH: Grant Number: 1U54AG063546-01) \$53,410,980; 9/1/2019-9/1/2024.

Co-investigator on Weijer and Taljaard “Ethical issues in cluster randomized trials: using stakeholder and patient engagement to generate guidance for the ethical design and conduct of trials evaluating clinical, health policy, health systems, and public health interventions” Canadian Institutes of Health Research (CIHR) \$531,674 10/22-9-25.

Co-investigator on Weijer and Taljaard “Ethical Issues in Cluster Randomized Trials” Canadian Institutes of Health Research (CIHR) \$531,674; 2022-2025.

Co-investigator on Jonathan Kimmelman (PI), “Regulatory, Policy and Ethical Implications of Clinical Trial Portfolios” Canadian Institutes of Health Research (CIHR) \$531,675; 2019-2023.

Co-investigator on Monica Taljaard (PI), “Developing a framework for the ethical design and conduct of pragmatic trials to improve the quality and value of health care systems and practices” Canadian Institutes of Health Research (CIHR) \$780,300; 2017-2021.

Co-investigator on Jonathan Kimmelman (PI), “Ethics, Efficiency and Patient Burden in Drug Development” Canadian Institutes of Health Research (CIHR) Operating Grant. \$289,000; 2016-2020.

Co-investigator on Jonathan Kimmelman (PI), “Can Researchers Predict Trial Outcomes and Feasibility? An Empirical Investigation” Canadian Institutes of Health Research (CIHR) Operating Grant (\$280,007 for 2013-2016)

Co-investigator on Jay Aronson (PI) and Sarah Wagoner (Co-PI) “The Ethics of Post-Conflict and Post-Disaster DNA Identification” National Institutes of Health, R01 HG005702-01, (\$1,201,086 for 2011-2013).

Supplemental Funding for New Directions Fellows, Andrew W. Mellon Foundation. 2010-2011. (\$50,000).

Co-investigator on Jonathan Kimmelman (PI), *Animals, Humans, and the Continuity of Evidence: A Study of Clinical Translation*. CIHR Operating Grant. (\$273,952 for 2011-2014).

Co-investigator on Jonathan Kimmelman (PI), “Justifying Translational Clinical

Trials: An Ethical Analysis of Risk, Design, and Prediction.” Canadian Institutes of Health Research FRN 102823 (\$183,119 for 2010-2013).
New Directions Fellowship, Andrew W. Mellon Foundation, 2005, (\$148,000).
Graduate School of Arts and Sciences Dissertation Year Fellowship, 1998-1999.
Junior Fellow, Society of Fellows 1998-1999.
President's Fellowship 1994-1997.
Dupont Fellowship 1994-1995.

CONSENSUS REPORTS OR GUIDELINES (authorship role)

- World Health Organization (2021) Ethics and Governance of Artificial Intelligence for Health. Geneva, World Health Organization.
(<https://apps.who.int/iris/bitstream/handle/10665/341996/9789240029200-eng.pdf>)
- National Academy of Medicine (2017) Integrating Clinical Research into Epidemic Response: The Ebola Experience. Report of the Committee on Clinical Trials During the 2014-15 Ebola Outbreak
(<http://nationalacademies.org/hmd/reports/2017/integrating-clinical-research-into-epidemic-response-the-ebola-experience.aspx>)
- CIOMS (2016) Guidelines for Health-related Research Involving Humans. Council for International Organizations of Medical Sciences (CIOMS) in collaboration with the World Health Organization (WHO)
(<http://cioms.ch/ethical-guidelines-2016/WEB-CIOMS-EthicalGuidelines.pdf>)
- HIV Prevention Trials Network Ethics Guidance for Research (2009) Stuart Rennie, Jeremy Sugarman and the HPTN Ethics Working Group
(https://www.hptn.org/sites/default/files/2016-05/HPTNEthicsGuidanceV10Jun2009_0.pdf)

MAJOR COMMITTEE OR CONSULTING WORK

- Member, National Academies of Sciences, Engineering, and Medicine Committee on Creating a Framework for Emerging Science, Technology, and Innovation in Health and Medicine (4/8/2022-6/30/2023).
- Member, National Science Advisory Board for Biosecurity (NSABB), a federal committee advising the U.S. Secretary of Health and Human Services. 3 Feb 2020-June 14, 2023.
- Program Committee Member, ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT) 2023.
- External Reviewer for the U.S. National Academies of Sciences, Engineering and Medicine report on PFAS Testing and Health Outcomes 2022.
- Program Committee Member, AAI / ACM Conference on Artificial Intelligence, Ethics and Society (AIES) 2022.
- Program Committee Member, AAI / ACM Conference on Artificial Intelligence, Ethics and Society (AIES) 2021.
- Member, World Health Organization (WHO) Expert Group on Ethics and Governance of AI, 2019-2021.

Planning committee member, U. S. National Academies Workshop on Drug Research and Development for Adults Across the Older Age Span, (August 5-6, 2020)

Ad hoc member of the National Institutes of Health External Scientific Review Committee for the NIH Department of Bioethics. 2019.

Judge, IBM Watson AI X-Prize 2017-2019.

Member, Board of Directors, International Association of Bioethics. 2017-2022.

Member, Advisory Committee on Blood and Tissue Safety and Availability (ACBTSA), a federal committee advising the U.S. Secretary of Health and Human Services. Nov. 2016-Nov. 2018.

Member, National Academies of Sciences, Engineering, and Medicine, Committee on Clinical Trials During the 2014-15 Ebola Outbreak, 2016.

Member of the Ethics Working Group of the HIV Prevention Trials Network (HPTN), 2007-2018.

Member, HIV Vaccine Trials Network Efficacy Trials Working Group, 2014-2018.

Member, Working Group on the Revision of CIOMS 2002 International Ethical Guidelines for Biomedical Research Involving Human Subjects, Council for International Organizations of Medical Sciences, 2012-2016.

Expert commentator at three World Medical Association meetings (Brazil, South Africa, Washington D.C.) on 2013 revision to the Declaration of Helsinki.

Member of the Steering Committee on Forensic Science Programs for the International Commission on Missing Persons (ICMP), 2011- 2018.

Member, Independent Ethics Review Committee for the PROMISE Trials, an independent committee convened by the National Institute of Allergic and Infectious Diseases (NIAD) to evaluate the ongoing PROMISE trials. 2012.

Director at Large, American Society for Bioethics and Humanities, 2009-2011.

STUDENTS SUPERVISED

Maria (Alejandra) Arciniegas Gomez: 2021 MA, TBA. Carnegie Mellon University.

Alec Walker: 2018-2019 MA, Avoiding Complicity: The Issue of Systematic Harms. Carnegie Mellon University

Daniel Belchamber: 2014-2015 Senior Thesis, “Digital Piracy And the Purpose of Intellectual Property.” Carnegie Mellon University

Shephaly Soni: 2012-2013 Senior BXA Capstone Project, “Beautiful Organs: Selling Health.” Carnegie Mellon University

Sarah Ceurvorst: 2012-2013 Senior BXA Capstone Project, “From Ashes to Art: A Consideration of the Funerary Rites Given to People with HIV in Thailand” Carnegie Mellon University

David Emanuel Gray: PhD 2010. “Republics of Commitments: Pluralism from the Individual to the Liberal State.” Carnegie Mellon University

Jia Wei: MA 2009. “Hobbes’s Idea of Authorization in Leviathan.” Carnegie Mellon University

Angela Jean Ballantyne: Ph.D. 2006 (external reader) “Exploitation in HIV/AIDS International Clinical Research,” Monash University.

- Christopher Punj: M.A. 2006. "Intellectual Property Rights and Access to Lifesaving Medicines." Carnegie Mellon University.
- David Emanuel Gray: M.S. 2004. "Deliberative Democracy and the Problem of Voting." Carnegie Mellon University
- Emily Evans: B.S. 2005. Honors Thesis, "Casting Stones: Judgments of Responsibility for Health Outcomes in Egalitarian Theories." Carnegie Mellon University
- Daniel McLaughlin: M.A. 2002. "Three Claims of Transformative Mediation." Carnegie Mellon University

WORKS EDITED

- 1) Steinbock B, London AJ, Arras JD, eds. 2012. Ethical Issues In Modern Medicine: Contemporary Readings in Bioethics. Eighth Edition, (New York: McGraw Hill).
- 2) Steinbock B, London AJ, Arras JD, eds. 2008. Ethical Issues In Modern Medicine: Contemporary Readings in Bioethics. Seventh Edition, (New York: McGraw Hill).
- 3) Steinbock B, Arras JD, London AJ, eds. 2002. Ethical Issues In Modern Medicine Sixth Edition, (New York: McGraw Hill).
- 4) London AJ. 2001. *Theory and the Practice of Bioethics*, special issue of Theoretical Medicine and Bioethics 22 (2), April. (Introduction: "Theory and Engagement in Bioethics" 65-68.)

COMMISSIONED PAPERS

- 1) "Research in a Public Health Crisis: The Integrative Approach to Managing The Moral Tensions" commissioned by the U.S. Centers for Disease Control and Prevention, April 2007.
- 2) "Rethinking the Ethics of Research Involving Prisoners," commissioned by the Institute of Medicine's Committee on Considerations for Revisions to DHHS Regulations on Protections of Prisoners Involved in Research, 10/19/05.
- 3) "Cutting Surgical Practice at the Joints: Individuating and Assessing Surgical Procedures," commissioned by the national study group on "Ethics of Innovative Surgery" funded by a grant from the Greenwall Foundation.

BOOKS

- 1) London, AJ. (2022) For the Common Good: Philosophical Foundations of Research Ethics. Oxford University Press. ISBN 978-0-19-753483-0
- A. Book Symposia**
- a. American Philosophical Association, Pacific Meeting (4/15/2022)
Chair: Jeremy Snyder (Simon Fraser University)
Speakers: Alexander Capron (University of Southern California)
Dana Howard (Ohio State University)
Douglas MacKay (University of North Carolina at Chapel Hill)
Carla Saenz (Pan-American Health Association)
Yolonda Wilson (Saint Louis University)
 - b. University of Hong Kong Center for Medical Ethics and Law (4/29/22)
Chair: Calvin Ho

Speakers: Nancy Jecker
Robert Steel

- c. International Association of Bioethics World Congress of Bioethics (7/22/2022)

Speakers: Charles Weijer
Florescia Luna
Sarah Chan

B. Book Reviews

- a. Andrew Garland, Journal of Applied Philosophy, 03 June 2022
<https://doi.org/10.1111/japp.12593>
- b. Jaime O'Brien, Lou Vinarcsik, Yolonda Wilson, Journal of Law Medicine and Ethics 50(2)390-391 27 July 2022
DOI: <https://doi.org/10.1017/jme.2022.68>
- c. David B. Resnik, Perspectives in Biology and Medicine 65(3)499-513 Summer 2022. DOI: <https://doi.org/10.1353/pbm.2022.0040>
- d. Douglas MacKay, Kennedy Institute of Ethics Journal 32(3) Sept. 2022 e-13-e-28 DOI: <https://doi.org/10.1353/ken.2022.0015>
- e. W. Simkulet. CHOICE 60(4) December 2022

PUBLICATIONS (* indicates peer reviewed publication)

- *112) Divyansh Kaushik, Zachary C. Lipton, Alex John London (forthcoming) Resolving the Human Subjects Status of Machine Learning's Crowdworkers
<https://doi.org/10.48550/arXiv.2206.04039>
- *111) London AJ, Kane PB, Kimmelman J. (2023) Varieties of Community Uncertainty and Clinical Equipoise. Kennedy Institute of Ethics Journal (forthcoming).
- *110) London AJ, Seymour CW. (2023) The Ethics of Clinical Research: Managing persistent uncertainty, JAMA. Online Feb 20, 2023.
<https://doi.org/10.1001/jama.2023.1675>
- *109) Alex John London, Yosef Razin, Jason Borenstein, Motahhare Eslami, Russell Perkins, and Paul Robinette (2023) Ethical Issues in Near-Future Socially Supportive Smart Assistants for Older Adults. IEEE Transactions on Technology and Society (forthcoming). DOI: <https://doi.org/10.1109/TTS.2023.3237124>
- 108) London, AJ. (2022). The Ethics of Research on Treatment Discontinuation. NEJM Evidence 1(8) (Published July 26, 2022)
DOI: <https://doi.org/10.1056/EVIDe2200132>
- *107) Kestegian A, **London AJ**. (2022). A Dilemma for Respecting Autonomy: Bridge Technologies and the Hazards of Sequential Decision Making. Journal of Medicine and Philosophy. 4/22/22 <https://doi.org/10.1093/jmp/jhab050>
- *106) London, AJ. (2022). Artificial Intelligence in Medicine: Overcoming or Recapitulating Structural Challenges to Improving Patient Care? Cell Reports Medicine 2/27/22. DOI: <https://doi.org/10.1016/j.xcrm.2022.100622>
- *105) Shah, S. K., **London, A. J.**, Mofenson, L., Lavery, J. V., John-Stewart, G., Flynn, P., Theron, G., Bangdiwala, S. I., Moodley, D., Chinula, L., Fairlie, L., Sekoto, T., Kakhu, T. J., Violari, A., Dadabhai, S., McCarthy, K., & Fowler, M. G. (2021). Ethically designing research to inform multidimensional, rapidly evolving

- policy decisions: Lessons learned from the PROMISE HIV Perinatal Prevention Trial. *Clinical Trials*. <https://doi.org/10.1177/17407745211045734>
- *104) Nakazawa, E., Yamamoto, K., **London, A.J.** *et al.* Solitary death and new lifestyles during and after COVID-19: wearable devices and public health ethics. *BMC Med Ethics* **22**, 89 (2021). <https://doi.org/10.1186/s12910-021-00657-9>
- *103) Jennifer Blumenthal-Barby, Sean Aas, Dan Brudney, Jessica Flanigan, S. Matthew Liao, **Alex London**, Wayne Sumner & Julian Savulescu (2021) The Place of Philosophy in Bioethics Today, *The American Journal of Bioethics*, DOI: [10.1080/15265161.2021.1940355](https://doi.org/10.1080/15265161.2021.1940355)
- *102) Franklin JM, Platt R, Dreyer NA, **London AJ**, Simon GE, Watanabe JH, Horberg M, Hernandez A, Califf RM. When Can Nonrandomized Studies Support Valid Inference Regarding Effectiveness or Safety of New Medical Treatments? *Clin Pharmacol Ther*. 2021 Apr 7. doi: 10.1002/cpt.2255. Epub ahead of print. PMID: 33826756.
- *101) Simon, G. E., Platt, R., Watanabe, J. H., Bindman, A. B., John London, A., Horberg, M., Hernandez, A., & Califf, R. M. (2021). When Can We Rely on Real-World Evidence to Evaluate New Medical Treatments?. *Clinical pharmacology and therapeutics*, 10.1002/cpt.2253. Advance online publication. <https://doi.org/10.1002/cpt.2253>
- *100) London, A.J. (2021). Self-Defeating Codes of Medical Ethics and How to Fix Them: Failures in COVID-19 Response and Beyond. *American Journal of Bioethics* 21(1) 4-13.
- *99) London, A.J. (2020). Equipoise: Integrating Social Value and Equal Respect in Research With Humans. in Ana S. Iltis and Douglas MacKay, Eds. *The Oxford Handbook of Research Ethics*. New York: Oxford University Press.
- *98) **London AJ**, Taljaard M, Weijer C. (2020) Loopholes in the research ethics system? Informed consent waivers in cluster randomized trials with individual-level interventions. *Ethics & Human Research* 42(6) 21-28.
- *97). Rieke van der Graaf, Ruth Macklin, Annette Rid, Anant Bhan, Eugenijus Gefenas, Dirceu Greco, David Haerry, Samia Hurst, **Alex John London**, Rodolfo Saracci, Dominique Sprumont, Johannes JM van Delden. (2020) Integrating public health programs and research after the Malaria Vaccine Implementation Program (MVIP): recommendations for next steps. *Vaccine* 38(45) 6975-6978.
- *96) Emily A. Largent, Spencer Phillips Hey, Kristin Harkins, Allison K. Hoffman, Steven Joffe, Julie C. Lima, **Alex John London**, Jason Karlawish. (2020) Ethical and Regulatory Issues for Embedded Pragmatic Trials Involving People Living with Dementia. *Journal of the American Geriatrics Society* 68(S2): S37-S42. DOI: 10.1111/jgs.16620
- *95) London, A.J. and Kimmelman J. (2020) Against Pandemic Research Exceptionalism. *Science* 368(6490)476-477. Online first Apr 2020: eabc1731 DOI: 10.1126/science.abc1731
- *94) Monica Taljaard, Cory E Goldstein, Bruno Giraudeau, Stuart G Nicholls, Kelly Carroll, Spencer Phillips Hey, Jamie C Brehaut, Vipul Jairath, **Alex John London**, Sandra M Eldridge, Jeremy M Grimshaw, Dean A Fergusson, Charles Weijer. (2020) Cluster over individual randomization: are study design choices

- appropriately justified? Review of a random sample of trials. *Clinical Trials* DOI: 10.1177/1740774519896799
- 93) London, A.J. (2019) Uncommon misconceptions and common morality *Journal of Medical Ethics* Published Online First: 25 September doi: 10.1136/medethics-2019-105799.
- *92) Derek Angus, Brian Alexander, Scott Berry, Meredith Buxton, Roger Lewis, Melissa Paoloni, Steven Webb, Steven Arnold, Anna Barker, Donald Berry, Marc Bonten, Mary Brophy, Christopher Butler, Timothy Cloughesy, Lennie Derde, Laura Esserman, Ryan Ferguson, Louis Fiore, Sarah Gaffey, J Gaziano, Kathy Giusti, Herman Goossens, Stephane Heritier, Bradley Hyman, Michael Krams, Kay Larholt, Lisa Lavange, Philip Lavori, Andrew Lo, **Alex John London**, Victoria Manax, Colin McArthur, Genevieve O'Neill, Giovanni Parmigiani, Jane Perlmutter, Elizabeth Petzold, Craig Ritchie, Kathryn Rowan, Christopher Seymour, Nathan Shapiro, Diane Simeone, Bradley Smith, Bradley Spellberg, Ariel Stern, lorenzo trippa, Mark Trusheim, Kert Viele, Patrick Wen, and Janet Woodcock. (2019) Adaptive Platform Trials: Definition, Design, Conduct, and Reporting Considerations. *Nature Reviews Drug Discovery* (August 28) <https://doi.org/10.1038/s41573-019-0034-3>
- *91) London AJ and Kimmelman J. (2019) Clinical Trial Portfolios: A Critical Oversight in Human Research Ethics, Drug Regulation, and Policy. *Hastings Center Report* 49(4) 31-41. DOI: 10.1002/hast.1034
- *90) London AJ. (2019) Freedom from Subjection to the Will of Others: Study Payments, Labor, and Moral Equality. *American Journal of Bioethics* 19(9), 32-34.
- *89) London, A. J. (2019). Artificial Intelligence and Black-Box Medical Decisions: Accuracy versus Explainability. *Hastings Center Report*, 49(1), 15-21. <https://doi.org/10.1002/hast.973>.
- *88) Kelly, L. E., Dyson, M. P., Butcher, N. J., Balshaw, R., **London, A. J.**, Neilson, C. J., Junker, A., Salaheddin M. M., Driedger, S. M., & Wang, X. (2018). Considerations for adaptive design in pediatric clinical trials: study protocol for a systematic review, mixed-methods study, and integrated knowledge translation plan. *Trials*, 19(1), 572. DOI : 10.1186/s13063-018-2934-7. TRLS-D-18-00449R2
- *87) Monica Taljaard, Charles Weijer, Jeremy M. Grimshaw, Adnan Ali, Jamie C. Brehaut, Marion K. Campbell, Kelly Carroll, Sarah Edwards, Sandra Eldridge, Christopher B. Forrest, Bruno Giraudeau, Cory E. Goldstein, Ian D. Graham, Karla Hemming, Spencer Phillips Hey, Austin R. Horn, Vipul Jairath, Terry P. Klassen, **Alex John London**, Susan Marlin, John C. Marshall, Lauralyn McIntyre, Joanne E. McKenzie, Stuart G. Nicholls, P. Alison Paprica, Merrick Zwarenstein, Dean A. Fergusson. (2018) Developing a Framework for the Ethical Design and Conduct of Pragmatic Trials in Healthcare: a Mixed Methods Research Protocol. *Trials* (2018) 19:525 <https://doi.org/10.1186/s13063-018-2895-x>
- *86) London, A. J. (2019). Social value, clinical equipoise, and research in a public health emergency. *Bioethics*, 33(3), 326-334. <https://doi.org/10.1111/bioe.12467>
- *85) Walker, A., & **London, A. J.** (2019). Weight (s) of complicity. *Journal of medical ethics*, 45(1), 69-70.

- 84) London AJ. (2018). Groundhog Day for Medical Artificial Intelligence. The Hastings Center Report 48(3). DOI: 10.1002/hast.842
- *83) London, AJ, Omotade OO, Mello MM, Keusch GT. (2018) Ethics of randomized trials in a public health emergency. PLoS Negl Trop Dis 12 (5): e0006313. <https://doi.org/10.1371/journal.pntd.0006313>
- *82) London AJ, Kimmelman J. (2018). Clinical Trials in Medical Center Advertising. JAMA Oncology Published Online: April 5, DOI: 10.1001/jamaoncol.2018.0181.
- *81) London AJ, Danks D. (2018). Regulating Autonomous Vehicles: A Policy Proposal. Proceedings of the AAAI/ACM conference on AI Ethics and Society.
- 80) Hey S, **London AJ**, Weijer C. (2017). Is the concept of clinical equipoise still relevant to research? Yes. BMJ 2017;359:j5787 doi: 10.1136/bmj.j5787 (Published 28 December 2017)
- *79) London AJ. (2017). Learning Health Systems, Clinical Equipoise and the Ethics of Response Adaptive Randomization. Journal of Medical Ethics. doi:10.1136/medethics-2017-104549.
- 78) Dawson L, Strathdee SA, **London AJ**, Lancaster KE, Klitzman R, Hoffman I, Rose S, Sugarman J. (2017). Bringing science and advocacy together to address health needs of people who inject drugs. Journal of Medical Ethics published on October 27, 2017 as 10.1136/medethics-2017-104591.
- 77) London AJ (2017) The Pluralism of Coherent Approaches to Global Health. Hastings Center Report 47(5):26-27.
- *76) Danks, D., & **London, A. J.** (2017). Algorithmic bias in autonomous systems. In C. Sierra (Ed.), Proceedings of the Twenty-Sixth International Joint Conference on Artificial Intelligence (pp. 4691-4697). <https://doi.org/10.24963/ijcai.2017/654>.
- *75) Bjordahl A, **London AJ**, Zollman JKS. (2017) Kantian Decision Making Under Uncertainty: Dignity, Price, and Consistency. Philosopher's Imprint. 17(7):1-22.
- 74) London AJ (2017) Equipoise in Research: Integrating Ethics and Science in Human Research. JAMA 317(5):525-526. doi:10.1001/jama.2017.0016 --reprinted (2020) in JAMA Guide to Statistics and Methods. Edward H. Livingston and Roger J. Lewis eds. McGraw Hill.
- *73) Schenker Y, **London AJ** (2017) Evaluating Public Health Advertising Campaigns: CPR Advertising Imperils Patient-Centered Decision Making, The American Journal of Bioethics, 17:2, 47-48. <http://dx.doi.org/10.1080/15265161.2016.1265167>
- 72) Danks D. and **London AJ**. (2017). Regulating Autonomous Systems: Beyond Standards. IEEE Intelligent Systems 32(1) 88-91. DOI:10.1109/MIS.2017.1
- *71) London AJ, and Kimmelman J (2016). Accelerated Drug Approval and Health Inequality. JAMA Internal Medicine. Published online June 13, 2016. doi:10.1001/jamainternmed.2016.2534
- *70) Liza Dawson, Steffanie A. Strathdee, **Alex John London**, Kathryn E. Lancaster, Robert Klitzman, Irving Hoffman, Scott Rose, Jeremy Sugarman. (2016) Addressing Ethical Challenges in HIV Prevention Research with People Who Inject Drugs. Journal of Medical Ethics (Online First: 25 April, 2016) doi:10.1136/medethics-2015-10289.
- *69) Aidan Kestigian and **Alex John London** (2016). "Adversaries at the Bedside: Advance Care Plans and Future Welfare." Bioethics (online 23 May 2016). DOI:

10.1111/bioe.12263

- *68) Frauke Hoss and **Alex John London**. (2015) Assessing the Moral Coherence and Robustness of Social Systems: Proof of Concept for a Graphical Models Approach. Science and Engineering Ethics (Online first, 21 December 2015) DOI 10.1007/s11948-015-9743-0.
- *67) London AJ. (2015) "Research in a Public Health Crisis: The Integrative Approach to Managing The Moral Tensions" Emergency Ethics (New York: Oxford University Press) pp. 220-261.
- *66) **London AJ** and Kimmelman J. (2015) Why Clinical Translation Cannot Succeed Without Failing. eLife 2015;4:e12844. DOI: 10.7554/eLife.12844.
- *65) Benjamin Carlisle , Nadine Demko, Georgina Freeman, Amanda Hakala, Nathalie MacKinnon, Tim Ramsay, Spencer Hey, **Alex John London**, Jonathan Kimmelman. (2015) Benefit, Risk and Outcomes in Drug Development: A Systematic Review of Sunitinib. JNCI: Journal of the National Cancer Institute. 108 (1): djv292 doi: 10.1093/jnci/djv292
- *64) Danielle Marie Wenner, Jonathan Kimmelman, and **Alex John London**. (2015). Patient-Funded Trials: Opportunity or Liability? Cell Stem Cell <http://dx.doi.org/10.1016/j.stem.2015.07.016>
- *63) Donna Hanrahan, Patrina Sexton, Katrina Hui, Jennifer Teitcher, Jeremy Sugarman, **Alex John London**, Mark Barnes, James Purpura, Robert Klitzman, (2015) Linguistic and Cultural Challenges in Communication and Translation in US-Sponsored HIV Prevention Research in Emerging Economies. PLoS ONE 10(7): e0133394. doi:10.1371/journal.pone.0133394
- *62) Athanasiou E, **London AJ**, Zollman KJS. (2015) Dignity and the Value of Rejecting Profitable but Insulting Offers. Mind 124 (494)409-448 doi:10.1093/mind/fzu186.
- *61) Kimmelman J and **London AJ**. (2015) The Structure of Clinical Translation: Efficiency, Information, and Ethics. The Hastings Center Report 45, no. 2 (2015): 27-39. DOI: 10.1002/hast.433
- 60) Schenker Y and **London AJ**. (2015) Imbalanced information on U.S. Hospital Websites: what are the risks? JAMA Internal Medicine 175(3):441-443. doi:10.1001/jamainternmed.2014.7400.
- 59) London AJ. (2015) Commentary: Data Monitoring Confidentiality and FDA Transparency". Clinical Trials 12(1):12-14.
- *58) Sexton P, Hui K, Hanrahan D, Barnes M, Sugarman J, **London AJ**, Klitzman R. (2014). Reviewing HIV-Related Research in Emerging Economies: The Role of Government Reviewing Agencies. Developing World Bioethics Online Nov 10, 2014. Print: 2016 Volume 16 (1):4–14. doi: 10.1111/dewb.12072.
- 57) Meyer MN, Lantos J, **London AJ**, McGuire AL, Schuklenk U, Stell L. (2014) Misjudgements Will Drive Social Trials Underground. Nature 511:265.
- *56) EL Daugherty, Biddison, H Gwon, M Schoch-Spana, R Cavalier, DB White, T Dawson, P Terry, **AJ London**, A Regenberg, R Faden, ES Toner. The Community Speaks: A Process for Understanding Ethical Values in Allocation of Scarce Lifesaving Resources during Disasters. Annals of the American Thoracic Society. 11(5):777-83. doi: 10.1513/AnnalsATS.201310-379OC.
- *55) Annette Rid, Abha Saxena, Abdhullah H. Baqui, Anant Bhan, Julie Bines, Marie-

- Charlotte Bouesseau, Arthur Caplan, James Colgrove, Ames Dhali, Rita Gomez-Diaz, Shane K. Green, Gagandeep Kang, Rosanna Lagos, Patricia Loh, **Alex John London**, Kim Mulholland, Pieter Neels, Puneet Pitisuttithum, Samba Cor Sarr, Michael Selgelid, Mark Sheehan, Peter G Smith. (2014) Placebo Use in Vaccine Trials: Recommendations of a WHO Expert Panel. Vaccine 32(37):4708-12. doi: 10.1016/j.vaccine.2014.04.022
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BOOK REVIEWS

- 5) London AJ. 2013. Review of Henry S. Richardson. *Moral Entanglements: The Ancillary-Care Obligations of Medical Researchers*. (Oxford: Oxford University Press, 2012 pp. 253) in Ethics 124(1): 206-209.
- 4) London AJ. 2011. "Offshoring Science: The Promise and Perils of the Globalization of Clinical Trials" Review of: Adriana Petryna. When Experiments Travel: Clinical Trials and the Global Search for Human Subjects. (Princeton University Press, 2009) in IRB (Jan-Feb): 18-20.
- 3) London AJ. 2002. "The Many Methods of Medical Ethics: Asset, Liability, Mere

- Appearance, or Something Else?” Review of: *Methods in Medical Ethics* Jeremy Sugarman and Daniel P. Sulmasy eds. (Georgetown University Press, 2001) in Medical Humanities Review 16 (1):41-45.
- 2) London AJ. 2000. Review of: *Advances in Bioethics Vol. 4: Critical Reflections on Medical Ethics* Rem B. Edwards and E. Edward Bittar (JAI Press Inc. 1998) in Ethics 111 (1): 202.
- 1) London AJ. 2000. Review of: *A Short History of Medical Ethics* Albert R Jonsen (Oxford University Press, 2000) in Choice; Middletown, (May).

EDITORIAL POSITIONS

- Editorial Board Member, *Ethics & Human Research* (E&HR), 2018-
- Editorial Board Member, *Indian Journal of Bioethics*, 2016-
- Editorial Board Member, *Monash Bioethics Review*, 2014-
- Editorial Board Member, *Research Ethics*, 2014-
- Editorial Board Member, Springer series in research ethics 2011-
- Editorial Board Member, *American Journal of Bioethics* 2005-2012.
- Editorial Board Member, *Theoretical Medicine & Bioethics* 2006-2009.
- Editorial Advisory Board, *Practicing Bioethics Series* from Rowman & Littlefield, 2002-2006
- Editor, *ASBH Exchange*, 2003-2006.

INTERNATIONAL INVITED TALKS

- 28) “Justice and the Egalitarian Research Imperative” Oxford University Ethox Center 1/26/22.
- 27) “Kantian Decision Making Under Uncertainty,” Kantian Rationality Lab, Immanuel Kant Baltic Federal University in Kaliningrad, 6/24/21.
- 26) “Ethics in Medical AI: Accountability Without Explainability?” closing Keynote at Lorentz Center conference on Explainable Medical AI: Ethics, Epistemology and Formal Methods (via Zoom) 4/12/21.
- 25) “Self-Defeating Codes of Medical Ethics and How to Fix Them: Failures in COVID-19 Response and Beyond. Welcome Center for Ethics and Humanities/ ETHOX Center, Oxford University (via Zoom) 10/22/20.
- 24) “The Importance of Research Quality in a Pandemic” National Institutes of Health and India’s National Biopharma Mission Webinar on Scientific and Ethical Standards of Clinical Trials in Public Health Emergencies. 9/24/20.
- 23) “Against Pandemic Research Exceptionalism” Public Health Emergency Preparedness and Response Ethics Network lead by the World Health Organization, via Zoom 8/10/20
- 22) “Explainability in Medical AI” presentation to the World Health Organization Expert Group on Ethics and Governance of AI, 10/3/19 (delivered remotely).
- 21) “Regulating Autonomous Vehicles: From Fixed Standards to Dynamic Oversight” Kyushu University, Japan 2/1/19.
- 20) “Artificial Intelligence in Medicine: An Introduction to Ethical Issues” University of Tokyo, Center for Bioethics and Law 1/29/19.
- 19) “Coordination of Clinical Research During an Outbreak” Workshop on Sustainable

- Clinical Research Capacity: Architecture, Governance, and Indicators. Sponsored by the National Institute of Allergy and Infectious Disease, World Bank, and the World Health Organization. Geneva, Switzerland 3/12/18.
- 18) “Ethics & Efficacy Trials of Vaccines When Effective Vaccines Already Exist” Welcome Trust Expert Meeting on Evaluating New Generation Vaccines, London, Feb 8, 2018.
 - 17) “Social Value, Reasonable Risk, and Research in a Public Health Crisis” Matariki 2017 Research Ethics Workshop, Herstmonceux Castle, England. August 15, 2017.
 - 16) “Equipoise in Epidemic Vaccine Trials” Ethical Design of Vaccine Trials in Emerging Infections Workshop, Oxford University. July 19, 2017.
 - 15) “Ethical and Methodological Considerations for Pharmacovigilance with Accelerated Release of Medicines” Opening Keynote, Uppsala Forum of the Uppsala Monitoring Center, 30 June, 2016.
 - 14) “Beyond Protection: The Integrity of Science as a Fundamental Ethical Concern” Opening Keynote Plenary, 15th Annual Meeting of the International Society of Pharmacovigilance. Prague, Czech Republic, Oct 28, 2015.
 - 13) “Research and Global Health: Some Considerations of Justice” Annual Ethics Oration for the International Continence Society, Rio de Janeiro Brazil, 10/22/14.
 - 12) “Mitigating Social Tension in Pandemic Research” and “Comments on the 2009 WHO Report on Research Ethics in International Epidemic Response” presented at Regulating Experimental Medicine During a Pandemic, London England 6/6-7/14.
 - 11) “Benefit Sharing in the Context of Biomedical Research: The Human Development Model” CIOMS International Workshop on Considerations on Benefit Sharing, Geneva, Switzerland Nov. 20, 2013.
 - 10) “Integrity & Social Trust: Securing the Future of Identification of the Missing” The Missing: An Agenda for the Future, The Hague, Netherlands Oct. 31, 2013.
 - 9) “Expert Consultation on Use of Placebo in Vaccine Trials: Pneumococcal Vaccine Case Study” World Health Organization (WHO) Expert Consultation on Use of Placebo in Vaccine Trials, Annecy France, Jan 17, 2013.
 - 8) “Post-Trial Access to Investigational Interventions in International Settings,” The World Medical Association Expert Conference on the Revision of the Declaration of Helsinki, Cape Town, South Africa, Dec 6, 2012.
 - 7) “Improving the Ethical Assessment of Incentives in Research,” and “Beyond Risk and Consent: Safeguarding the Integrity of Research as a Unique Social Good” for the training program in Buenos Aires, Argentina of the Fogarty International Center of the National Institutes of Health 5/22-24/2012.
 - 6) “Responsiveness, Access, and Partnerships for Inquiry,” Conference on Post Trial Access to Trial Drugs: Legal, Ethical, and Practical Issues, Broucher Foundation, Geneva Switzerland, 12/15/2011.
 - 5) “Ethical Issues and Institutions of DNA Identification,” International Commission on Missing Persons (ICMP), Steering Committee on Forensic Sciences Programs, Sarajevo, Bosnia Herzegovina 10/25/11.
 - 4) “The Integrative Approach to Clinical Trials of Charged Particle Radiotherapy”

- Institute for Science and Ethics and the Particle Therapy Cancer Research Institute, Oxford University 7/24/11.
- 3) “Fair Benefits and Placebo Controls” The World Medical Association Expert Conference on The Ethics of Placebo Controls in Clinical Trials, Sao Paulo, Brazil, 7/15/2011.
 - 2) “Research vs. Surveillance and Other Public Health Practices: Definitions and Respective Ethical and Procedural Implications.” World Health Organization, Geneva Switzerland, 6/10/09.
 - 1) “Reasonable Risk in Clinical Research” and “The Responsiveness to Host Community Health Needs Requirement” for the training program in Buenos Aires, Argentina of the Fogarty International Center of the National Institutes of Health 11/7-8/06.

INVITED KEYNOTE/PLENARY TALKS

- 23) “Automating Medicine” Presentation for Presidential Panel at the Philosophy of Science Association Annual Meeting 11/10/22
- 22) “Reconceptualizing the Role of the IRB: A Nonpaternalistic Research Ethics” WCB IRB Fall Training, Seattle WA 10/14/22
- 21) “Uncertainty and the Ethics of Artificial Intelligence in Health Care” Opening Keynote for Ethics of AI in Health Care Conference, Milwaukee WI, 9/22/22
- 20) “Ethics in Medical AI: Explaining Models vs Explaining the Warrant for their Use” Virtual Workshop on the Philosophy of Medical AI (Zoom) keynote, 10/8/20.
- 19) “Revising the WMA’s International Code of Medical Ethics” World Congress of Bioethics, Online (Zoom) plenary, 6/21/20.
- 18) “Bioethics Turns 50” Plenary session at the PRIM&R Advancing Ethical Research Conference, Nov. 18, 2019.
- 17) “Trauma and the Tree of Life Tragedy: Finding a Path Forward” Moderator, Opening Plenary Session, American Society for Bioethics and Humanities, Oct 24, 2019.
- 16) “Ethics of AI in Medicine” Plenary panel presentation, American Heart Association Research Leaders Academy Workshops 9/20/19.
- 15) “Avoiding Human Bias in AI Systems” ReWork, AI for Good Summit, San Francisco, CA, 6/21/19.
- 14) “Ethical decision making in computational systems: mechanisms for ensuring social trust,” Keynote for the National Academy of Medicine meeting on Algorithms, Air Pollution, and Adverse Outcome Pathways: Leveraging Artificial Intelligence and Machine Learning to Advanced Environmental Health Research and Decisions. June 6-7, 2019.
- 13) “Innovation, Rigor, and the Best Interests of Study Participants: Can We Have it All?” Center for Clinical & Translational Science & Training at the University of Cincinnati conference on Pushing the Boundaries: Scientific Innovation and Biomedical Ethics, Cincinnati April 12, 2019.
- 12) “Artificial Intelligence in Medicine: Does Accountability Require Explainability?”, “When Machines Make Life and Death Decisions” and “Ethical and Scientific Issues Developing AI in Medicine: Parallels to Drugs Development” The John &

- Marsha Ryan Bioethicist-in-Residence, Southern Illinois University School of Law, March 20-22, 2019.
- 11) “Artificial Intelligence & Genuine Medical Ethics: Incorporating AI into Responsible Medical Practice.” The 2018 Bruce E. Siegel Memorial Lecture, Columbus, Ohio, 11/13/18.
 - 10) “Ethical and Scientific Issues in Developing Deep Learning Systems in Medicine: More Like Drugs Than You Might Think.” 13th Annual FDANews FDA Inspections Summit, 10/25/18.
 - 9) “Artificial Intelligence and Ethics.” BNY Mellon IMPACT kick-off to the 44th Annual National Society of Black Engineers Convention. 3/20/18.
 - 8) Closing Keynote. Ethical Issues in International Research: Benchmarks for Fairness. Inaugural Carol Carfang Nursing & Healthcare Ethics Conference at the Hilton Clearwater Beach Hotel in Clearwater, Florida. 3/2/18.
 - 7) Closing Plenary, The Nuremberg Code After 70 Years: Foundational or Forgotten? PRIM&R 2017 Advancing Ethical Research Conference, San Antonio, TX 11/8/17.
 - 6) “Ethics and AI” Vision Monday, New York City, 3/29/17.
 - 5) “The ‘Standard of Prevention’ in HIV Prevention Research” plenary panel presentation at the HIV Vaccine Trials Network Annual Meeting, Washington D.C. 5/6/15.
 - 4) “IRBs, What Are They Good For? Absolutely Nothing? Individual Integrity vs. Institutional Design” Lehman Lecture in Medical Ethics, Allegheny College March 12, 2014.
 - 3) “Ethical Challenges in Research Involving Financial Incentives In Resource Scarce Environments,” Invited Plenary, U.S. Government Evidence Summit: Enhancing Provision and Use of Maternal Health Services through Financial Incentives, Washington, DC, 4/25/12.
 - 2) “Ethical Issues in Behavioral Economics and Combination Prevention” Invited Plenary, HIV Prevention Trials Network Annual Meeting, Washington DC. 6/6/11.
 - 1) “Is Research Morally Special: Justice, Respect, and Reasonable Regulation.” Invited Plenary, Public Responsibility In Medicine and Research (PRIMR) annual meeting, 11/14/09. (I gave 3 additional talks at this meeting as well).

INVITED TALKS

- 106) “Ethical Issues in Voice Biomarkers” Bridge2AI Voice Biomarker Conference, Washington DC, 4/19/23.
- 105) “Structural Challenges to Reducing Uncertainty with Artificial Intelligence in Health Care” Stanford University Center for Bioethics, 2/21/23.
- 104) “Structural Challenges to Reducing Uncertainty with Artificial Intelligence in Health Care” University of Pittsburgh School of Public Health Grand Rounds. 12/5/22.
- 103) “Structural Challenges to Reducing Uncertainty with Artificial Intelligence in Health Care” Columbia University Center for Precision Medicine and Genomics, Department of Medicine. 11/30/2022.
- 102) “Justice and the Egalitarian Research Imperative” National Institutes of Health Department of Bioethics, 11/2/22.
- 101) “Structural Challenges to AI in Medicine: Explainability is not the Solution”

- Learning Health Systems Collaboratory, University of Michigan 10/20/22
- 100) “Duties of physicians in the Revised International Code of Medical Ethics (ICME)” World Medical Association consultation on revisions to the ICME, Washington DC 8/11/22
 - 99) “Research Within the Bounds of Reasonable Risks” NYU Division of Medical Ethics, 6/6/22
 - 98) “Ethical Issues Across the AI Lifecycle” U.S. National Cancer Institute conference on Machine Learning and Health Outcomes in Cancer Care Delivery Research U.S. 5/17/21.
 - 97) “The Egalitarian Research Imperative and its Implications for Research Ethics and Oversight” presented to the Harvard Program on Regulation, Therapeutics and Law (PORTAL) 1/19/22.
 - 96) “For the Common Good: Rethinking the Role of IRBs in Research Ethics” a talk to the AEREO group at UPenn 12/13/21.
 - 95) Moderator of “Weeding out useless research: what’s an IRB to do” panel session at PRIM&R AIER Annual Meeting 11/17/21.
 - 94) “Explainable vs Ethical AI: Just Semantics?” Panel at the University of Texas at Austin McCombs School of Business Conference on AI 11/11/21 (via Zoom).
 - 93) “The Future of AI: Bias, Policy and More” Science Policy Group at UCSF 10/13/21.
 - 92) “An Ethical Case for Transparency in AI” BOLD-AIR Summit, Stanford Center for Artificial Intelligence in Medicine & Imaging, 8/4/21 (via Zoom).
 - 91) “Ethical Issues in Medical AI” Harvard Annual Bioethics Conference, 6/10/21.
 - 90) “Research Ethics and the Development of COVID therapeutics: Painful Lessons To Learn” University of Kentucky 3/18/21.
 - 89) “The Moral Duty to Learn: Uncertainty, Research and Novel Disease” Wake Forrest University 3/8/21.
 - 88) “Pandemic Research Ethics” University of Wisconsin Medical Center Colloquium 2/22/21.
 - 87) “Justice and Crisis Standards of Care” University of Pittsburgh Medical Center 1/15/21.
 - 86) “Why We Need Prospective Clinical Trials of AI in Medicine” Harvard Multi-Regional Clinical Trial Center, 11/16/20 (via Zoom).
 - 85) “Pandemic Research Ethics: The Perfect Storm” ASBH Health and Science Policy Affinity Group meeting, (via Zoom) 10/16/20.
 - 84) “Research in a Public Health Crisis: Beyond Exceptionalism”, Ohio State University (via Zoom) 5/20/20.
 - 83) “AI in Medicine: Uncertainty, Association and Intervention” Boston Colloquium for Philosophy of Science, 3/22/20. (Canceled for COVID-19)
 - 82) “Ethics and AI: Beyond the Hype” University of Pittsburgh Center for Bioethics & Health Law 29th Annual Conference, 3/20/20.
 - 81) “Accountability and Trust in Medical AI” Harvard Medical School Annual Bioethics Conference” 3/9/20.
 - 80) “Ethics and (Artificially) Intelligent Health Systems,” MIT, Feb 28th, 2020.
 - 79) “The common good and the egalitarian research imperative” Workshop on Philosophical Issues in Research Ethics (PIRE), Rotman Institute of Philosophy, Western University, Ontario CA 11/7/19.

- 78) "AI in Medicine: Uncertainty, Association and Intervention" Boston Colloquium for Philosophy of Science 3/22/20.
- 77) "Is there a dilemma at the heart of research ethics?" Harvard Law School session to workshop chapter 5 of my forthcoming book. 10/7/19.
- 76) "AI, Adaptive Trials, and Ethics: Can We Integrate Innovation, Rigor and the Best Interests of Study Participants?" University of Buffalo Medical Center. 9/4/19.
- 75) "Intelligent Health Systems: Managing Uncertainty with AI and Novel Trial Designs" Baylor Workshop on Philosophical Bioethics, 6/28/19.
- 74) "Understanding the Role of Explainability and Verification in Medical AI" Artificial Intelligence for Data Discovery and Reuse (AIDR2019). May 12, 2019.
- 73) "Ethics and People Considerations Using AI in Finance" panel at the conference on Artificial Intelligence and Machine Learning in the Financial Industry, New York, NY May 2, 2019.
- 72) "AI in Medicine: Prediction, Intervention and Ethics" NYU Conference on AI in Medicine, April 26, 2019.
- 71) "Ethical and Regulatory Issues with Autonomous Vehicles." Berman Bioethics Institute Seminar Series, Johns Hopkins University, 2/11/19.
- 70) "Explanation vs Validation: Ethical and Scientific Issues in Developing Deep Learning Systems in Medicine" National Institutes of Health 11/13/18.
- 69) "Obscuring Intervention Allocation In Pragmatic Clinical Trials: Ethical Issues." National Academies of Sciences, Engineering and Medicine, Washington DC 7/17/18.
- 68) "Ethics and AI Systems" Pittsburgh Humanities Festival, 3/4/18.
- 67) "Equipoise & Adaptive/Platform Trials" Challenges for Clinical Equipoise in the 21st Century, Harvard University, 9/29/17.
- 66) "Ethical Considerations in Platform Trials" Platform Trials Coalition meeting, Harvard University, May 12, 2017.
- 65) "Compensation or Inducement? What IRBs Need to Know about Paying Subjects for Participation" Webinar for PRIM&R April 13, 2017.
- 64) "Fairness to Macro-level Concerns about Fairness in International Research" National Institutes of Health Joint Bioethics Seminar Dec 12, 2016.
- 63) "Sources of Ethical Responsibilities for the Global Pharmaceutical Industry" Seton Hall Law School meeting on Ethical Issues in Marketing Pharmaceuticals in Emerging Health Systems. Oct. 6-7, 2016.
- 62) "2016 CIOMS International Ethical Guidelines for Health-Related Research Involving Humans" Paying Research Participants: Ethical and Regulatory Parameters at Harvard Law's Petre-Flom Center on December 9th, 2016
- 61) "Kantian Decision Making Under Uncertainty: Dignity, Price, and Consistency" University of Virginia, Feb 8, 2016.
- 60) "Sources of Ethical Responsibilities for the Global Pharmaceutical Industry" Seton Hall Law School meeting on Ethical Issues in Marketing Pharmaceuticals in Emerging Health Systems. Oct. 6-7, 2016.
- 59) "Perspectives on Clinical Trial Designs During Outbreaks" U. S. Food and Drug Administration (FDA) meeting "Clinical Trial Designs for Emerging Infectious Diseases" Bethesda, MD. Nov 9-10 2015.

- 58) "Research Ethics and the Facebook Study Controversy" University of Kentucky, Research Ethics Lecture Series, 4/16/2015.
- 57) "Ethical Considerations in Accelerated Approval" Institute of Medicine Workshop on Financial Incentives to Support Unmet Medical Needs for Nervous System Disorders. Washington, D.C. 1/20/15.
- 56) "IRB's, What are They Good For? Absolutely Nothing? Individual Integrity vs. Institutional Design." Orthopedic Department Grand Rounds, Allegheny General Hospital. 1/6/15.
- 55) "Uncertainty and Consent in Comparative Effectiveness Research" Children's Mercy Bioethics Series, Kansas City, MO. 12/10/14.
- 54) "The Council for International Organizations of Medical Sciences (CIOMS) Approach" Post-Trial Responsibilities Conference: Ethics and Implementation. Harvard Law School. 9/18/14.
- 53) "Elements of an Effective Research Ethics Policy" The World Bank, Washington D.C. 1/23/14.
- 52) "Controversies and Quagmires in International HIV/AIDS Research" University of Kentucky, Sept 25, 2013.
- 51) "Research Risks and Vulnerable Populations" World Medical Association meeting in Washington DC to revise the Declaration of Helsinki. 8/26/13.
- 50) "Distinguishing the Obligations of Researchers to Participants from those of Clinicians to Patients." Testimony before the Presidential Commission for the Study of Bioethical Issues, Washington, DC, 4/30/13.
http://www.tvworldwide.com/events/bioethics/130430/globe_show/default_go_archive.cfm?gsid=2256&type=flv&test=0&live=0
- 49) "Special Ethical Challenges in Vaccine / Monoclonal clinical trials in the context of PreP in Resource Limited Settings." Ethical Considerations in HIV Prevention and Vaccine Trials in Resource Limited Settings, National Institutes of Allergic and Infectious Disease, Division of AIDS, 4/21/13.
- 48) "Ethical Issues in Defense Technology Innovation," The National Academies, Committee on Ethical and Societal Issues in National Security Applications of Emerging Technologies," Washington, DC, 4/12/12.
- 47) "Transparency in Solar Radiation Management Research and Development," Workshop on Managing Knowledge About How to Perform Solar Radiation Management, American Association for the Advancement of Science, Washington DC, 4/2/12.
- 46) "Rethinking the Role of IRBs" Research Ethics: Reexamining Key Concerns, Wake Forest University, 11/11/2011.
- 45) "Incentives and the Ethics of Influencing Patient Behavior in HIV Prevention" Grand Rounds, Columbia University HIV Center for Clinical and Behavioral Studies 10/6/11.
- 44) "Human Rights and Human-Subjects Research: Beyond the IRB" AAAS Science and Human Rights Coalition Meeting, Washington D.C. 1/11/2011.
- 43) "Research and Global Health: Some Considerations of Justice" Yale University seminar on Global Health Ethics, Politics and Economics, 11/9/2010.
- 42) "Assessing the Scope, Limits, and Value of Clinical Equipoise." The Arkansas Medical Society Distinguish Lecture, 10/4/2010.

- 41) "Personal Responsibility for Health: What is Fair?" Consortium Ethics Program, 9/26/10.
- 40) "Decision Making for the Not Competent: Philosophical Issues." Consortium Ethics Program, 9/24/10.
- 39) "Ethics and Clinical Trial Design." Combination Biomedical HIV Prevention Modalities Workshop: Research Design and Ethical Considerations, sponsored by the National Institutes of Allergy and Infectious Disease and the U.S. Department of Health and Human Services, Rockville, MD 6/23/10.
- 38) "Ethics of Cash Incentives: Conceptual Issues." Ethics Working Group meeting of HIV Prevention Trials Network, Washington D.C., 6/7/10.
- 37) "Research in a Public Health Crisis: The Integrative Approach to Managing the Moral Tensions." Public Health Preparedness Summit, Atlanta GA 2/17/10.
- 36) "Gene Therapy Research in the Developing World: Some Considerations of Justice." American Society of Gene Therapy (invited paper), 5/27/09.
- 35) "Research Subjects at the Auction Block: Some Problems for Procedural Approaches to Justice" McGill University, 11/21/08.
- 34) "Clinical Research in A Public Health Crisis: The Integrative Approach Managing Uncertainty and Mitigating Conflict" Seton Hall Law School, 11/23/08.
- 33) "Responsiveness to Host Community Health Needs: Clarifying the Requirement" University of North Carolina at Chapel Hill Medical School, 9/25/08.
- 32) "Why and How are Considerations of Justice Relevant to the Conduct of International Medical Research?" Michigan State University, 3/24/08.
- 31) "Uncertainty, Utility, and Ethics in First-in-Human Trials" Workshop on First-In Human Trials in Parkinson's Disease, McGill University 11/9/07.
- 30) "From Equipoise to the Integrative Approach" A Conference in Honor of Benjamin Freedman, McGill University 10/10/07.
- 29) "A Justice-Led Approach to International Research" University of Maryland, for the Middle East training program of the Fogarty International Center of the National Institutes of Health 7/9/07.
- 28) "Ensuring that International Research is Responsive to Host Community Health Needs: Clarifying the Requirement" Duke University Medical Center 2/20/07.
- 27) "Reasonable Risk in Clinical Research" Duke University Philosophy Department 2/19/07.
- 26) "Reasonable Risk in Clinical Research: The Integrative Approach" The University at Albany, SUNY, 4/21/06.
- 25) "Equipoise Without the Duty of Personal Care" The Johns Hopkins University School of Public Health 3/27/06.
- 24) "Ethical and Methodological Issues in the Transition of Stem Cell Research into Humans: Is There a Conflict Between the 'Best' Science and the 'Best' Ethics?" Stem Cell Network Workshop on Model Systems & Parkinson's Disease, Dalhousie University, 2/3/06.
- 23) "The Varieties of Bioethics" Duquesne University School of Law 12/5/05.
- 22) "Ethical Issues in the SPORT Trial Design," a panel presentation at "Scientific and Ethical Issues in the Design of Clinical Trials with Usual Care Comparison Arms," National Institutes of Health Clinical Research Policy Analysis and Coordination Program 11/15/05.

- 21) "Rethinking the Ethics of Research Involving Prisoners" the Institute of Medicine's Committee on Considerations for Revisions to DHHS Regulations on Protections of Prisoners Involved in Research, 10/19/05.
- 20) "Responsiveness to Host Community Health Needs: Clarifying the Requirement" Johns Hopkins University, School of Public Health and Berman Bioethics Institute, 8/2/05.
- 19) "Ethical Issues in Sham-Surgery Controls," Deliberative Consultation on Sham Surgery, Rochester NY, 4/05.
- 18) "Beyond the Vacuous and the Impossible: Evaluating Risk in Human-Subjects Research," Biology Colloquium Series, University of Delaware, 5/11/05.
- 17) "Just Medical Research" Georgetown University, Kennedy Center for Ethics, 2/18/05.
- 16) "Justice and the Human Development Approach to International Research," University of Pittsburgh, Center for Bioethics and Health Law, 12/10/04.
- 15) "Ethical Issues in Stem Cell Research," University of Delaware 10/8/2004.
- 14) "Integrating Ethical Perspectives into Non-Ethics Courses" University of Delaware 6/8/04.
- 13) "Cutting Surgical Practices at the Joints: Individuating and Assessing Surgical Procedures." University of Virginia, 3/10/04.
- 12) "Equipose and Microbicide Trials." International Consultation on Ethical Issues in the Clinical Testing of Microbicides, Washington, DC, 10/23-24/03.
- 11) "Going Beyond Reasonable Availability" and "Responsibility of Researchers to the Community" Harvard School of Public Health, 6/25/03.
- 10) "Ethics and Conflict Resolution" Inaugural Lecture for SOPHIA: The Center for Critical Thinking and Philosophical Practice at Bergen College, NJ 3/10/03.
- 9) "Global Justice and International Medical Research" University of Virginia, 2/03.
- 8) "Cutting the World at the Joints: A Philosophical Analysis of Surgical Innovations" University of Virginia, 2/11/03.
- 7) "Sham Surgery Controls in Clinical Trials" Harvard Medical School, 12/10/02.
- 6) "What is the Method Debate in Bioethics a Debate About?" Center Colloquium, Center for Bioethics and Health Law, University of Pittsburgh, 11/01.
- 5) "Separating the Maltese Conjoined Twins" Bioethics Grand Rounds, Center for Bioethics and Health Law, University of Pittsburgh, 10/01.
- 4) "Clinical Trial Design and the Ethics of International Research" Department of Philosophy at Wesleyan University, 1/00.
- 3) "Moral Psychology and Methods of Practical Ethics" Department of Philosophy at Michigan State University, 2/00.
- 2) "Moral Agency and the Rights of the Mentally Ill: A Reply to Failer" Political Philosophy Colloquium Series at the University of Virginia, 9/98.
- 1) "Wisdom, Ruling, and the Craft Analogy in Republic I" Department of Philosophy at Mount Holyoke College, 1/98.

CONFERENCE PAPERS

- 26) "In Defense of the Egalitarian Research Imperative" APA Central Division Meeting, invited symposium on Pandemic Ethics, Research and Social Justice. 2/24/22
- 25) "Uncertainty, Social Value and Early Stopping in Clinical Trials" Annual Meeting of

- the American Society for Bioethics and Humanities (via Zoom) 10/14/21.
- 24) "Upper Bounds on Research Risks" Annual Meeting of the American Society for Bioethics and Humanities (via Zoom) 10/16/20.
 - 23) "Justice in Research: Beyond Individual Protocols," World Congress of Bioethics (online) 6/19/20.
 - 22) "Incentives for Research Participation: Are we Worried About the Wrong Thing?" American Society for Bioethics and Humanities, 10/20/18.
 - 21) "Bias in Prediction vs Bias in Use" with David Danks, presented by Danks, Cambridge University, Sept 2018.
 - 20) "Machines that Learn: Can they Also be Taught Human Values?" RightsCon 2018, Toronto, 5/16/18
 - 19) London AJ, Danks D. Regulating Autonomous Vehicles: A Policy Proposal. AAAI/ACM conference on AI Ethics and Society, New Orleans Feb 3 2018.
 - 18) "Evaluating Risk: Risk Comparisons in Research and Transplantation," American Society for Bioethics and Humanities (ASBH), Minneapolis, MN, 10/14/11.
 - 17) "Market Forces and Fair Benefits: Some Problems for Procedural Approaches to Justice in International Research" American Philosophical Association, Pacific Meeting, 4/11/09.
 - 16) "Some Problems for the *Principle of Permissible Exploitation*." American Society for Bioethics and Humanities, 10/18/09.
 - 15) "Community Benefits In International Research" the American Society for Bioethics and Humanities Annual Meeting, 10/27/06.
 - 14) "Responsiveness to Host Community Health Needs" 8th World Congress of Bioethics, International Association of Bioethics, Beijing, China 8/5/06.
 - 13) "Lack of Global Access to Care and Therapy: An Ethicist's View" XXVII International Congress of the World Federation of Hemophilia, Vancouver, Canada 5/23/06.
 - 12) "Justice in the Belmont Report and the Social Division of Labor" American Philosophical Association, Eastern Division Meeting, 12/29/05.
 - 11) "Justice and Medical Research: 25 Years After Belmont," American Society for Bioethics and Humanities Annual Meeting, 10/21/05.
 - 10) "Is Wide Reflective Equilibrium a Paper Crown on Bioethics Arguments?" American Society for Bioethics and Humanities Annual Meeting, 10/28/04.
 - 9) "Equipose and International Research" Central Division Meeting of the American Philosophical Association, 5/4/01.
 - 8) "Why Aristotle's Rhetoric is of Central Importance to the Theory and Practice of Bioethics" American Society for Bioethics and Humanities, Houston, 11/98.
 - 7) "Rethinking the Work of Wisdom in Plato's *Euthydemus* and *Lysis*" 5th Symposium Platonicum of the International Plato Society in Toronto, 8/98.
 - 6) "Two Concepts of Goodness in Plato" University of Virginia Philosophy Colloquium Series, 5/98.
 - 5) "Wisdom, Ruling, and the Craft Analogy in Republic I" Society for Ancient Greek Philosophy, Binghamton University, 10/97.
 - 4) "Thrasymachus and Managed Care: How Not to Think About the Craft of Medicine" Society for Health and Human Values, Baltimore MD, 11/97.

- 3) "Self-Control and the Limits of Ethical Theory in Aristotle's *Nicomachean* and *Eudemian Ethics*" Society for Ancient Greek Philosophy, SUNY Binghamton 10/96.
- 2) "The Doctrine of the Mean in Aristotle's *Nicomachean* and *Eudemian Ethics*" Virginia Philosophical Association, 11/96.
- 1) "Thomas Hobbes: Virtue Theorist?" Virginia Philosophical Association, 11/95.

PROFESSIONAL ACTIVITIES

Paper commissioned by the U.S. Centers for Disease Control and Prevention on the ethics of research in a public health emergency context.

Paper commissioned by the Institute of Medicine's Committee on Considerations for Revisions to DHHS Regulations on Protections of Prisoners Involved in Research.

Member, research group for "Ethics of Innovative Surgery" funded by a grant from the Greenwall Foundation. 2003-2005.

Officer, Society for Bioethics and Classical Philosophy, 1997-

Referee for:

JNCI

New England Journal of Medicine

Annals of Internal Medicine

Canadian Medical Journal.

Bioethics.

Philosophy of Science

Kennedy Institute of Ethics Journal.

The Journal of Empirical Research on Human Research Ethics.

IRB: Ethics & Human Research.

NeuroTherapeutics.

Theoretical Medicine and Bioethics.

The Hastings Center Report.

The Journal of Ethics.

Journal of Medical Ethics.

AIDS and Public Policy Journal.

The Journal of Medicine and Philosophy.

Ancient Philosophy.

Book manuscript referee for:

Oxford University Press.

Cambridge University Press.

Blackwell Publishers.

MIT Press.

Referee for papers on research ethics for the joint meeting of the American Society for Bioethics and Humanities (ASBH) and the Canadian Bioethics Society (CBS), 2003.

Referee of philosophy papers for the annual meeting of ASBH 2002.

TEACHING EXPERIENCE

Tepper School of Business, CMU, Executive Education Program, Ethics & AI

Phil. 80-104: Plato's Republic: Ethics, Psychology & Society
Phil. 80-330/530: Ethical Theory
Phil. 80-242: Conflict and Dispute Resolution
Phil. 80-245/545: Medical Ethics
Phil. 80-247/547: Global Justice I: Health Development & Human Rights
Phil. 80-248/548: Global Justice II: Sovereignty, Intervention & Rectification
Phil. 80-330/630: Research Ethics
Phil. 80-249: AI Society and Humanity
Phil. 80-250: Ancient Philosophy
Phil. 80-256: Modern Moral Philosophy
Phil. 80-449: Ethics, History and Public Policy Capstone Course
Phil. 80-519/819: Seminar on Aristotle's Ethics
Phil 80-602: Journal Seminar
Phil 80-603: Core Seminar
Phil. 8320/PubH 5729: Ethics and Human Experimentation. Spring 2000 (U. of Minn.)
M.D./PhD Ethics Workshop, University of Pittsburgh 2000, 2001.
Clinical Medicine I, "Confidentiality in Theory and Practice" and Small Group Discussion leader November 1999. (U. of Minn.)

MAJOR UNIVERSITY SERVICE

Member: Advisory Council for Responsible AI Initiative at CMU
Advisory board for Dietrich College Health Humanities Major (2021-).
Committee to Draft a Strategic Plan to Increase Diversity and Inclusion in Dietrich College (2019).
Provost's Committee to Draft a Policy on Consensual Relationships (2018)
K&L Gates Ethics and AI Steering Committee, member (2017-)
Design your life committee, member (2018)
Search committee for Dean of the College of Humanities and Social Sciences at Carnegie Mellon University, member (2013).
University Disciplinary Committee, member 2001-.
Institutional Review Board (IRB) 2001-2005, 2011-2012.
Founding Member, Humanities Center at Carnegie Mellon University

OTHER PUBLICATIONS

- 1) Self-driving, but not self-regulating: Self-driving cars need more oversight. Pittsburgh Post-Gazette, April 2, 2017 (With David Danks).
- 2) "Deprivation, Disease, and the Ethics of International Research" Bioethics Examiner 4 No. 1 (Spring 2000) pp. 1 & 4.
- 3) "ICC Expects a Profit in '91 as Demand For Its Energy-Saving Devices Grows" The Wall Street Journal Sept. 4, 1990, pp. C6.
- 4) "If Anyone Makes a Fuss About It, Well, Then, Let Them Eat Bread" The Wall Street Journal June 28, 1990, pp. B1.
- 5) "What Nerve, to Say, 'We Must Have Lunch,' and Really Mean It" The Wall Street Journal May 30, 1990, pp. B1.

MEDIA COVERAGE & APPEARANCES (selected)

- [NBC News](#) “A mental health tech company ran an AI experiment on real users. Nothing’s stopping apps from conducting more.” Jan 14, 2023.
- [CNN](#) “‘Powerful division’ among public health leaders over how to pivot Covid-19 messaging” Sept 6, 2022
- [Bloomberg Government](#). “Pentagon Urged to do More Against Biased Artificial Intelligence” May 2, 2022.
- [Politico](#). “Elon Musk's biggest worry” 2/26/22.
- [KDKA-TV News](#) (CBS affiliate) “Difficult Decisions Ahead For Hospitals And States As Coronavirus Cases Surge, ICUs Fill” December 22, 2020 at 6:45 pm
- [The New York Times](#). Can an Algorithm Prevent Suicide? 11/23/20.
- [Axios](#). Medical ethics in pandemic times. 10/8/20
- [The Verge](#). Russia rushes registration of unproven coronavirus vaccine. 8/11/20
- [The Verge](#). An important part of science is admitting when we’re wrong. 8/8/20
- [The Verge](#). We can’t skip steps on the road to a COVID-19 vaccine. 8/4/2020
- [Quartz](#). China is telling state employees it’s safe to use an experimental coronavirus Vaccine. 7/31/20
- [Wired Magazine](#). Where Should Covid-19 Vaccines Be Tested? It's a Moving Target. 7/1/20
- [Reliasmedia](#). Actions for IRBs Reviewing Vaccine Challenge Trials. 6/30/20
- [Inside Higher Ed](#). Rush to Publish Risks Undermining COVID-19 Research. 6/8/20
- [The Seattle Times](#). Clinical trial enrollment plummets as volunteers are scared off coronavirus drugs promoted by Trump. 5/9/20
- [Quartz](#). Regulators would consider releasing an unapproved coronavirus vaccine. 5/8/20
- [Quartz](#). Scientists want to see the evidence that shows remdesivir works for Covid-19. 5/1/20
- [ABC News](#). Injecting healthy adults with live coronavirus provides moral dilemma, faster path to vaccine. 4/27/20
- [Scientific American](#). Shortcuts in COVID-19 Drug Research Could Do Long-Term Harm, Bioethicists Worry. 4/24/20
- [KDKA-TV News](#) (CBS Affiliate). Coronavirus Coverage: Is The United States Going To Issue ‘Immunity Certificates?’ How Do You Get One? 4/23/20.
- [Axios](#). The high stakes of low scientific standards. 4/23/20.
- [Der Spiegel](#). Forschung im Eiltempo - kann das gut gehen? 4/23/20
- [Medium](#). Ethicist: Hydroxychloroquine hype could bungle the science. 4/9/20
- [Dallas Morning News](#). New clinical trials bring potential COVID-19 treatments to North Texas. 3/28.20
- [Quartz](#). The race to develop coronavirus treatments pushes the ethics of clinical trials. 3/28/20.
- [KDKA-TV News](#). ‘Nobody Wants To Make These Decisions’: Who Gets A Ventilator In The Coronavirus Pandemic? 3/25/20.
- [Quartz](#). Ethicists agree on who gets treated first when hospitals are overwhelmed by coronavirus. 3/19/20.
- [Vice News](#). How Not to Be a Coronavirus Jerk. 3/17/20
- [KDKA-TV News](#) (CBS Affiliate) interview about CrowdMed, aired on the 6:30 PM

News, May 4, 2015.

[**Science Podcast: DNA Identification After Conflict or Disaster**](#)
[**NPR All Things Considered: "After Disasters, DNA Science is Helpful, But Often Too Pricey"**](#)

[**Testimony before the 13th Meeting of the Presidential Commission for the Study of Bioethical Issues**](#)

KDKA-TV News (CBS Affiliate) interview about fusion inhibitors for HIV+ persons, aired on the 5:00 PM News, July 22, 2002.

KDKA-TV News (CBS Affiliate) interview about ethics of separating conjoined twins, aired on the 5:00 PM News, November 8, 2002.