

## MICHELLE N. MEYER

Geisinger, 100 N. Academy Ave., Danville, PA 17822

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### EDUCATION

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#### Harvard Law School, J.D., 2006

*Harvard Law Review*, Editor, 2004–2006

*Harvard Law Review Forum*, Founding Co-Editor, 2005–2006

*Civil Rights-Civil Liberties Law Review*, General Editor, 2003–2004

#### University of Virginia, Ph.D., 2003, M.A., 1998, Religious Studies (Applied Ethics)

Louisville Institute Dissertation Fellowship, 2001–2002

Presidential and DuPont Fellowship, 1996–1999

DuPont Fellowship, 1996–1999

Dissertation: *Finitude, Transcendence, and Ethics: Sartrean-Niebuhr Resources for*

*Understanding Difference and Dominance* (James F. Childress, chair; John D. Arras, outside reader (philosophy))

Zora Neale Hurston Prize, 1999 (best Studies in Women & Gender essay)

#### Dartmouth College, A.B., *summa cum laude*, 1996

General honors: Phi Beta Kappa; Rufus Choate Scholar

Highest Honors for Religious Studies thesis (Ronald M. Green, advisor)

Charles Howard Dudley Prize in Religion

Moral Philosophy minor

### POSTDOCTORAL TRAINING

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#### Harvard Law School

Cambridge, MA

*Academic Fellow*, Petrie-Flom Center for Health Law Policy, Biotechnology & Bioethics 2010–2013

#### Johns Hopkins University

Baltimore, MD

*Greenwall Fellow in Bioethics and Health Policy*, Berman Institute of Bioethics 2007–2010

#### U.S. Court of Appeals for the Eleventh Circuit

Miami, FL

*Law Clerk* to the Hon. Stanley Marcus 2006–2007

#### John F. Kennedy School of Government, Harvard University

Cambridge, MA

*Research Fellow* 2002–2003

### CURRENT APPOINTMENTS

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#### Geisinger Health System

Danville, PA

*Chair and Associate Professor*, Department of Bioethics & Decision Sciences 2023–

*Faculty Co-Director*, Behavioral Insights Team, Steele Institute for Health Innovation 2018–

#### Geisinger Commonwealth School of Medicine

Scranton, PA

*Associate Professor of Bioethics*, Department of Medical Education 2021–

### PAST APPOINTMENTS

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#### Geisinger Health System

Danville, PA

*Associate Professor*, Center for Translational Bioethics and Health Care Policy 2021–2022

*Co-Director*, Behavioral & Decision Sciences Program, Research Institute 2021–2022

*Associate Director, Research Ethics* 2016–2022

*Assistant Professor*, Center for Translational Bioethics and Health Care Policy 2016–2021

<b>Geisinger Commonwealth School of Medicine</b> <i>Assistant Professor of Bioethics, Department of Medical Education</i>	Scranton, PA 2019–2021
<b>Clarkson University*–Icahn School of Medicine at Mt. Sinai Bioethics Program</b> <i>Assistant Professor and Director of Bioethics Policy</i> *In 2016, Union Graduate College merged with Clarkson University	Schenectady, NY 2013–2016
<b>Albany Law School</b> <i>Adjunct Faculty</i>	Albany, NY Fall 2015, 2013
<b>Institute of Advanced Study in Toulouse</b> <i>Visiting Scholar</i>	Toulouse, France Dec. 2013
<b>Petrie-Flom Center for Health Law Policy, Biotechnology, and Bioethics</b> <b>Harvard Law School</b> <i>Lecturer on Law</i>	Cambridge, MA  2011–2012
<b>Nelson A. Rockefeller Institute of Government</b> <i>Institute Fellow</i>	Albany, NY 2009–2011
<b>Union Graduate College–Mt. Sinai School of Medicine Bioethics Program</b> <i>Visiting Assistant Professor</i>	Schenectady, NY 2009–2010

**PREPRINTS AND SUBMITTED ARTICLES** (§corresponding author; supervisee; \*contributed equally)

**Meyer, M.N.**, Basl, J., Choffnes, D., Wilson, C., Lazer, D., Not just scraping by: Bringing ethics to crowdsourced online data collection and sharing. Submitted.

**Vogt, R.L.**, \* **Heck, P.R.**, \* **Mestechkin, R.M.**, **Heydari, P.**, Chabris, C.F., \* **Meyer, M.N.** § Experiment aversion among clinicians and the public—an obstacle to evidence-based medicine and public health. [medRxiv preprint](#).

**Vogt, R.L.**, **Mestechkin, R.M.**, Chabris, C.F., \* **Meyer, M.N.** § Objecting to consensual experiments even while approving of nonconsensual imposition of the policies they contain. [PsyArXiv preprint](#).

Zhang, S., Heck, P., **Meyer, M.N.**, Chabris, C., Goldstein, D., Hofman, J. An illusion of predictability in scientific results. Submitted. [SocArXiv preprint](#).

Turley, P., Martin, A.R., Goldman, G., Li H., Kanai, M., Walters, R. K., Jala, J.B., Lin, K., Millwood, I.Y., Carey, C.E., Palmer, D.S., Zacher, M., Atkinson, E. G., Chen, Z., Li, L., Akiyama, M., Okada, Y., Kamatani, Y., Walters, R. G., Callier, S., Laibson, D., **Meyer, M.N.**, Cesarini, D., Daly, M., Benjamin, D.J., Neale, B.M. Multi-Ancestry Meta-Analysis yields novel genetic discoveries and ancestry-specific associations. Revised and resubmitted. [bioRxiv preprint](#).

**Shermohammed, M.**, **Goren, A.**, Lanyado, A., Yesharim, R., Wolk, D. M., Doyle, J., **Meyer, M. N.**, \* Chabris, C. F. \* Informing patients that they are at high risk for serious infection increases vaccination rates. [medRxiv preprint](#).

**JOURNAL ARTICLES** (§corresponding author; supervisee; \*contributed equally)

**Meyer, M.N.**, \* Appelbaum, P.S., Benjamin, D.J., Callier, S.L., Comfort, N., Conley, D., Freese, J., Garrison, N.A., Hammonds, E.M., Harden, K.P., Lee, S.S-J., Martin, A.R., Martschenko, D.O., Neale, B.M., Palmer, R.H.C., Tabery, J., Turkheimer, E., Turley, P., Parens, E. \* (in press 2023). Wrestling with social and behavioral genomics: Risks, potential benefits, and ethical responsibility. *The Hastings Center Report* 53(S1)

- Martschenko, D.O., Callier, S.L., Garrison, N.A., Turley, P., Lee, S.S.-J., **Meyer, M.N.**, Parens, E. (in press 2023). Wrestling with public input on an ethical analysis of scientific research. *The Hastings Center Report* 53(S1)
- Meyer, M. N.**<sup>§</sup>, Tan, T., Benjamin, D., Laibson, D., Turley, P. (2023) [Public views on polygenic screening of embryos](#). *Science* 379(6632): 541–543
- Covered by *MIT Technology Review*, *Prospect Magazine* (UK), *Forbes*, *Fast Company Magazine*, *Times Higher Education* (UK), and various outlets in France, Italy, Germany, Switzerland, Belgium
- Wagner, J. K., Tanniru, J., Chane, C. A., **Meyer, M. N.** (2022). Exploring access to genomic risk information and the contours of the HIPAA public health exception. *Journal of Law and the Biosciences* 9(2), 1–23. <https://doi.org/10.1093/jlb/lsac034>
- Patel, M. S., Milkman, K. L., Gandhi, L., Graci, H. N., Gromet, D. M., Ho, H., Kay, J.S., Lee, T. W., Rothschild, J., Akinola, M., Beshears, J., Bogard, J. E., Buttenheim, A., Chabris, C. F., Chapman, G. B., Choi, J. J., Dai, H., Fox, C. R., Goren, A., Hilchey, M. D., Hmurovic, J., John, L. K., Karlan, D. S., Kim, M., Laibson, D., Lambertson, C., Madrian, B. C., **Meyer, M. N.**, Modanu, M., Nam, J., Rogers, T., Rondina, R., Saccardo, S., Shermohammed, M., Soman, D., Sparks, J., Warren, C., Weber, M., Berman, R., Evans, C. N., Lee, S. H., Snider, C. K., Tsukayama, E., Van den Bulte, C., Volpp, K. G., and Duckworth, A. L. (2022). Effect of behavioral nudges delivered through text messages to increase influenza vaccination among patients with an Upcoming Primary Care Visit: A randomized clinical trial. *American Journal of Health Promotion*, <https://doi.org/10.1177/08901171221131021>
- Lanyado, A., Wolk, D. M., Tice, A. M., Shermohammed, M., Kinar, Y., Goren, A., Chabris, C. F., **Meyer, M. N.**, Shoshan, A., Abedi, V. (2022). Prediction of influenza complications: Development and validation of a machine learning prediction model to improve and expand identification of vaccine-hesitant patients at risk for severe influenza complications. *Journal of Clinical Medicine* 11(15): 4342
- Awad, E., Levine, S., Anderson, M., Anderson, S. L., Conitzer, V., Crockett, M. J., Everett, J. A. C., Evgeniou, T., Gopnik, A., Jamison, J. C., Kim, T. W., Liao, M., **Meyer, M. N.**, Mikhail, J., Opoku-Agyemang, K., Borg, J. S., Schroeder, J., Sinnott-Armstrong, W., Slavkovik, M., Tenenbaum, J. B. (2022) Computational ethics. *Trends in Cognitive Science*, [corrected proof](#) published online March 29, 2022
- Milkman, K. L., Patel, M. S., Gandhi, L., Graci, H. N., Gromet, D. M., Ho, H., Kay, J. S., Lee, T. W., Bogard, J. E., Brody, I., Chabris, C. F., Chang, E., Chapman, G. B., Dannals, J. E., Goldstein, N., Goren, A., Hershfield, H., Hirsch, A., Hmurovic, J., Horn, S., Karlan, D. S., Kristal, A. S., Lambertson, C., **Meyer, M. N.**, Oakes, A. H., Schweitzer, M. E., Shermohammed, M., Talloen, J., Warren, C., Whillans, A., Yadav, K. N., Zlatev, J. J., Berman, R., Evans, C. N., Snider, C. K., Tsukayama, E., Van den Bulte, C., Volpp, K. G., and Duckworth, A. L. (2022). A 680,000-person megastudy of nudges to encourage vaccination in pharmacies. *PNAS*, 119(6): e2115126119
- Okbay, A., Wu, Y., Wang, N., Jayashankar, H., Bennett, M., Nehzati, S. M., Sidorenko, J., Kweon, H., Goldman, G., Gjorgjieva, T., Jiang, Y., Hicks, B., Chao, T., Hinds, D. A., Ahlskog, R., Magnusson, P. K. E., Oskarsson, S., Hayward, C., Campbell, A., Porteous, D. J., Freese, J., Herd, P., *23andMe Research Team*, *Social Science Genetic Association Consortium*, Watson, C., Jala, J., Conley, D., Koellinger, P. D., Johannesson, M., Laibson, D., **Meyer, M. N.**, Lee, J. L., Kong, A., Yengo, L., Cesarini, D., Turley, P., Visscher, P. M., Beauchamp, J. P., Benjamin, D. J., and Young, A. I. (2022). Polygenic prediction within and between families from a 3-million-person GWAS of educational attainment. *Nature Genetics*, 54: 437–449

- Spector-Bagdady, K., Lynch, H. F., Bierer, B. E., Gelinas, L., Hull, S. C., Magnus, D., **Meyer, M. N.**, Sharp, R. R., Sugarman, J., Wilfond, B. S., Yearby, R., Mohapatra, S. (2022). [Allocation of opportunities to participate in clinical trials during the COVID-19 pandemic and other exceptional circumstances](#). *Hastings Center Report*, Jan/Feb: 51–58
- Polygenic Risk Score Task Force of the International Common Disease Alliance. (2021). Towards responsible use of polygenic risk scores in the clinic: assessing the potential benefits, risks, and gaps. *Nature Medicine*, 27: 1876–1884 (one of 26 joint banner authors)
- Santos, H. C.**, **Goren, A.**, Chabris, C. F. \*, **Meyer, M. N.**\* (2021). Effect of targeted behavioral science messages to encourage COVID-19 vaccination among employees of a large health system: A randomized trial. *JAMA Network Open*, 4(7), e2118702
- Turley, P. \*, **Meyer, M. N.**\*, Wang, N., Cesarini, D., Hammonds, E., Martin, A. R., Neale, B. M., Rehm, H. L., Wilkins-Haug, L., Benjamin, D. J., Hyman, S., Laibson, D., Visscher, P. M. (2021). [Problems with using polygenic scores to select embryos](#). *New England Journal of Medicine*, 385(1), 78-86
- Covered by, e.g., *MIT Technology Review*, *Bloomberg*, *Scientific American*, *The Guardian*, *Times of London*, *US News & World Report*, *STAT News*, *Slate*, *Businessweek*
- Lussier, M., **Meyer, M. N.**, Wright, E. (2021). [Consequences of Rush to Emergency Use Authorization of Bamlanivimab](#). *American Journal of Health-System Pharmacy*, 78(22): 2086–2087
- DiNucci, A., et al. (2021). Feasibility and Assessment of a Cascade Traceback Screening program (FACTS): protocol for a multisite study to implement and assess an ovarian cancer Traceback cascade testing program. *Journal of Personalized Medicine*, 11(6), 543-554
- Milkman, K. L., Patel, M. S., Gandhi, L., Graci, H. N., Gromet, D. M., Ho, H., Kay, J. S., Lee, T. W., Akinola, M., Beshears, J., Bogard, J. E., Bутtenheim, A., Chabris, C. F., Chapman, G. B., Choi, J. J., Dai, H., Fox, C. R., **Goren, A.**, Hilchey, M. D., Hmurovic, J., John, L. K., Karlan, D. S., Kim, M., Laibson, D., Lambertson, C., Madrian, B. C., **Meyer, M. N.**, Modanu, M., Nam, J., Rogers, T., Rondina, R., Saccardo, S., **Shermohammed, M.**, Soman, D., Sparks, J., Warren, C., Weber, M., Berman, R., Evans, C. N., Snider, C. K., Tsukayama, E., Van den Bulte, C., Volpp, K. G., and Duckworth, A. L. (2021). [A mega-study of text-based nudges encouraging patients to get vaccinated at an upcoming doctor’s appointment](#). *Proceedings of the National Academy of Sciences*, 118(20), e2101165118
- Covered by, e.g., *Washington Post*, *Salon*, *USA Today*, *Health Affairs*, *Freakonomics*, *Daily Mail*, *The Guardian*, *CNN Philippines*, *Business Insider*, *WebMD*, *The Conversation*, *Quartz*, *Yahoo! News*, *Yahoo! Finance*, *MSN*
  - Cited in policy documents by the WHO, the OECD, and Dutch government
- Wagner, J. K., **Meyer, M. N.** (2021). Genomic medicine and the “loss of chance” medical malpractice doctrine. *Human Genetics and Genomics Advances*. *Human Genetics and Genomics Advances*, 2(3), 100032, July 8: 1-9
- Becker, J., et al. (2021). [The Polygenic Index Repository: Resource profile and user guide](#). *Nature Human Behavior*, 5, 1744-1758
- Meyer, M. N.**, Gjorgjieva, T., Rosica, D. (2021). [Trends in health care worker intentions to receive a COVID-19 vaccine and reasons for hesitancy](#). *JAMA Network Open*, 4(3), e215344
- Covered by, e.g., [The Economist](#), [US News & World Report](#), [UPI](#)
- Meyer, M. N.**, Gelinas, L., Bierer, B., Hull, S. C., Joffe, S., Magnus, D., Mohapatra, S., Sharp, R., Spector-Bagdady, K., Sugarman, J., Wilfond, B., Lynch, H. F. (2021). An Ethics Framework for Consolidating and Prioritizing COVID-19 Clinical Trials. *Clinical Trials*, 18(2), 226-233

- Mozersky, J., **Meyer, M. N.**, Rahm, A. K., O'Dell, & S., Buchanan, A. (2021). Balancing external validity and concern for psychosocial harms in translational genetic research. *Ethics & Human Research*, 43(2), 43-48
- Guerrini, C. J., Sherkow, J. S., **Meyer, M. N.**, & Zettler, P. J. (2020). Transparency is key to ethical vaccine research—Response. *Science*, 370(6523), 1423
- Guerrini, C. J.,<sup>§</sup> Sherkow, J. S.,<sup>§</sup> **Meyer, M. N.**,<sup>§</sup> & Zettler, P. J.<sup>§</sup> (2020). [Self-experimentation, ethics, and regulation of vaccines](#). *Science*, 365(6511), 1570-1572
- Covered by, e.g., *STAT News*, *Gizmodo*, [ABC News](#); [Popular Mechanics](#); [IFL Science](#); [The Conversation](#) (Spanish language); [Wiener Zeitung](#) (Austria); [El Pais](#) (Spain); [fanpage](#) (Italy); [Heti Világgazdaság](#) (Hungary); [CTV National News](#) (Canada)
- Heck, P. R., Chabris, C. F., Watts, D. J., & **Meyer, M. N.** (2020). Objecting to experiments even while approving of the policies or treatments they compare. *Proceedings of the National Academy of Sciences*, 117(32), 18948-18950
- Meyer, M. N.** (2020). There oughta be a law: When does(n't) the U.S. Common Rule apply? *Journal of Law, Medicine & Ethics*, 48(1-suppl), 60-73
- Byrd, J. B., Bello, N., & **Meyer, M. N.** (2020). Pandemic pandemonium: Pausing clinical research during the COVID-19 outbreak. *Circulation*, 141, 2045-2047
- Savatt, J. M., Wagner, J. K., Joffe, S., Rahm, A. K., Williams, M. S., Davis, F. D., Hergenrather, J., Kelly, M. A., Kirchner, H. L., **Meyer, M. N.**, Mozersky, J., O'Dell, S. M., Pervola, J., Sturm, A. C., Buchanan, A. H. (2020). Pediatric reporting of genomic results study (PRoGRESS): A mixed-methods, longitudinal, observational cohort study to explore disclosure of actionable adult- and pediatric-onset genomic variants to minors and their parents. *BMC Pediatrics*, 20, 222
- Bobe, J., **Meyer, M. N.**, & Church, G. M. (2020). Privacy and agency are critical to a flourishing biomedical research enterprise: misconceptions about the role of CLIA. *Florida Law Review Forum*, 71, 58-67
- Meyer, M. N.**,<sup>§</sup> Heck, P. R., Holtzman, G. S., Anderson, S. M., Cai, W., Watts, D. J., & Chabris, C. F. (2019). Reply to Mislavsky et al.: Sometimes people really are averse to experiments. *Proceedings of the National Academy of Sciences*, 116(48), 23885-23886
- Meyer, M. N.**,<sup>§</sup> Heck, P. R., Holtzman, G. S., Anderson, S. M., Cai, W., Watts, D. J., & Chabris, C. F. (2019). Objecting to experiments that compare two unobjectionable policies. *Proceedings of the National Academy of Sciences*, 116(22), 10723-10728
- Covered by, e.g., at [Bloomberg](#) (Cass Sunstein), [Marginal Revolution](#) (Alex Tabarrok), [Vox](#), [Mother Jones](#), [Harvard Business Review](#), [The Atlantic](#), [Nautilus](#), [UnHerd](#)
- Heck, P. R. & **Meyer, M. N.** (2019). Information avoidance in genetic health: Perceptions, norms, and preferences. *Social Cognition*, 37, 266-293
- Heck, P. R. & **Meyer, M. N.**<sup>§</sup> (2019). Population whole exome screening: Primary care provider attitudes about preparedness, information avoidance, and nudging. *Medical Clinics*, 103(6), 1077-1092
- Linnér, R. K., et al. (2019). Genome-wide association analyses of risk tolerance and risky behaviors in over 1 million individuals identify hundreds of loci and shared genetic influences. *Nature Genetics*, 51, 245-257
- Lynch, H. F., Nicholls, S., **Meyer, M. N.**, & Taylor, H. A. (2018). Of parachutes and participant protection: Advancing effective research ethics oversight. *Journal of Empirical Research on Human Research Ethics*, 14(3), 190-196

- Lee, J. L., et al. (2018). Gene discovery and polygenic prediction from a genome-wide association study of educational attainment in 1.1 million individuals. *Nature Genetics*, 50(8), 1112-1121
- Williams, M. S., et al. (2018). Implementation of patient-centered precision health in a learning healthcare system: the Geisinger experience with genomic medicine. *Health Affairs*, 37(5), 757-764
- Meyer, M. N.** (2018). Practical tips for ethical data sharing. *Advances in Methods and Practices in Psychological Science*, 1(1), 1-14
- Buchanan, A. H., Kandamurugu, M., **Meyer, M. N.**, et al. (2018). Early cancer diagnoses through BRCA1/2 screening of unselected adult biobank participants. *Genetics in Medicine*, 20(5), 554-558
- Lynch, H. F., & **Meyer, M. N.** (2017). Regulating research with biospecimens under the revised Common Rule. *Hastings Center Report*, 47(3), 3-4
- Meyer, M. N.** (2016). Pregnancy Exclusions, Posthumous Pregnancy, and the Constitution. *Lahey Health Journal of Medical Ethics*, Spring, 6-7
- Okbay, A., et al. (2016). Genome-wide association study identifies 74 loci associated with educational attainment. *Nature*, 533(7604), 539-542
- Okbay, A., et al. (2016). Genetic variants associated with subjective well-being, depressive symptoms and neuroticism identified through genome-wide analyses. *Nature Genetics*, 48(6), 624-633
- Meyer, M. N.** (2015). Above the (public health) law?: Healthcare worker deception & disobedience in a time of distrust. *Journal of Law*, 5(1), 121-136
- Meyer, M. N.** (2015). Two cheers for corporate experimentation: The A/B illusion and the virtues of data-driven innovation. *Colorado Technology Law Journal*, 13(2), 273-331
- Meyer, M. N.**, Lantos, J., London, A. J., McGuire, A. L., Schuklenk, U., & Stell, L. (2014). Misjudgements will drive social trials underground. *Nature*, 511(7509), 265 (signed by an additional 28 ethicists)
- Meyer, M. N.** (2013). Regulating the production of knowledge: Research risk-benefit analysis and the heterogeneity problem. *Administrative Law Review*, 65(2), 237-298
- Selected for 2011 Health Law Scholars Workshop, co-sponsored by American Society of Law, Medicine, and Ethics (ASLME) and St. Louis University School of Law's Center for Health Law Studies
- Meyer, M. N.** (2013). Are you ready for some...research? Uncertain diagnoses, research data privacy, & preference heterogeneity. *Journal of Law*, 3(1), 99-110
- Rietveld, N. A., et al. (2013). GWAS of 126,559 Individuals Identifies Genetic Variants Associated with Educational Attainment. *Science*, 340(6139), 1467-1471
- Meyer, M. N.** (2013). From evidence-based medicine to evidence-based practice. *Hastings Center Report*, 43(2), 11-12
- Meyer, M. N.** (2011). The Subject-Researcher Relationship: In Defense of Contracting Around Default Rules. *American Journal of Bioethics*, 11(4), 27-30
- Meyer, M. N.** (2010). Against one-size-fits-all research ethics. *Hastings Center Report*, 40(5), 10-11
- Meyer, M. N.**, & Fossett, J. W. (2009). The more things change: The new NIH guidelines on human stem cell research. *Kennedy Institute of Ethics Journal*, 19(3), 289-307
- Meyer, M. N.** (2008). The kindness of strangers: The donative contract between subjects and researchers and the non-obligation to return individual results of genetic research. *American Journal of Bioethics*, 8(11), 44-50

- Meyer, M. N.** (2006). The plaintiff as person: Cause lawyering, human subject research, and the secret agent problem. *Harvard Law Review*, 119, 1510-1531
- Cited as recommended reading in *The Green Bag's Almanac of Exemplary Legal Writing of 2006*
- Meyer, M. N.** (2004). Icelandic Supreme Court holds that inclusion of an individual's genetic information in a national database infringes on the privacy interests of his child: *Guomundsdottir v. Iceland*. *Harvard Law Review*, 118, 810-817
- Fletcher, J. C., **Meyer, M. N.**, Benson, J. M., & Denk, C. E. (1998). When and Why Do Virginians Choose to Terminate Treatment? *Virginia Medical Quarterly*, 125(2), 112-116, 119

## BOOK CHAPTERS AND OTHER SCHOLARLY WORKS

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- Santos, H.C., Meyer, M.N., & Chabris, C.F.** (2022). Reports of the death of expertise may be exaggerated: Limits on knowledge resistance in health and medicine. In J. Stromback, Å. Wikforss, H. Oscarsson, T. Lindholm, & K. Glüer (Eds.). *Knowledge Resistance in High-Choice Information Environments*. London: Routledge.
- Goren, A., Meyer, M. N., Patel, M., and Chabris, C. F.** (2021). Crowdsourcing nudges: Insights and experiences from two healthcare systems. *Behavioral Economics Guide* (A. Samson, ed.).
- Whicher, D., Ahmed M., Siddiqi S., Adams I., Grossmann C., and Carman, K. Editors. 2020. *Health Data Sharing to Support Better Outcomes: Building a Foundation of Stakeholder Trust*. NAM Special Publication. Washington, DC: National Academy of Medicine.
- National Academies of Sciences, Engineering, and Medicine. (2020). *Life Cycle Decisions for Biomedical Data: The Challenge of Forecasting Costs*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/25639> (consensus study report).
- Meyer, M. N.** (2019). Research ethics issues raised in collecting and maintaining large scale, sensitive online data, <https://issod-proceedings.github.io/resources/meyer.pdf>, 1-23 (commissioned white paper for Sloan Foundation-funded workshop)
- Meyer, M. N.** (2018). Ethical considerations when companies study—and fail to study—their customers. In J. Polonetsky, O. Tene & E. Selinger (Eds.), *Cambridge handbook of consumer privacy* (pp. 207-231). Cambridge, UK: Cambridge University Press.
- Meyer, M. N.** (2014). Three challenges for risk-proportionate (research) regulation: Heterogeneity among regulated entities, regulator bias, and stakeholder heterogeneity. In I.G. Cohen & H.F. Lynch (Eds.), *The future of human subjects research regulation* (pp. 313-326). Cambridge, MA: MIT Press.
- Lazer, D., & **Meyer, M. N.** (2004). DNA and the criminal justice system: Consensus and debate. In D. Lazer (Ed.), *DNA and the criminal justice system: The technology of justice* (pp. 357-390). Cambridge, MA: MIT Press.
- Meyer, M. N.** (1999). Summary of presentations on religious perspectives relating to research involving human stem cells, May 7, 1999. In National Bioethics Advisory Commission, *Ethical issues in human stem cell research: Report and recommendations* (pp. 99-104). Rockville, MD.
- Fletcher, J.C., **Meyer, M. N.**, & Wispelwey, B. (1999). AIDS and ethics: Clinical, social, and global. In T. C. Merigan, J. G. Bartlett, & D. Bolognesi (Eds.), *Textbook of AIDS medicine—2d edition* (pp. 951+). Baltimore, MD: Lippincott Williams & Wilkins.
- Fletcher, J.C., **Meyer, M. N.**, & Gutgesell, H. P. (1998). Ethical issues in diagnosis and treatment of fetal and neonatal cardiac disease. In D. B. Hess & L. W. Hess (Eds.), *Fetal echocardiography* (pp. 375-386). Stamford, CT: Appleton & Lange.

## SELECT SHORTER WORKS

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- Meyer, M. N.**, Turley, P. & Benjamin, D. J. (2020, February 3). Genetic scoring presents opportunity, peril (Letter to the Editor), *Wall Street Journal* (full version available at Medium; cited in *New York Times* and *Times Literary Supplement*)
- Meyer, M. N.** (2015, December 31). No, donating your tissue to research isn't like letting someone rifle through your phone. *Forbes.com*.
- Meyer, M. N.** & Chabris, C. F. (2015, June 19). Please, corporations, experiment on us. *New York Times*.
- Meyer, M. N.** & Chabris, C. F. (2014, July 31). Why psychology's food fight matters. *Slate* (translated and reprinted as *Les chercheurs en psychologie s'écharpent, et nous ne devrions pas nous en laver les mains*, *Slate.Fr*, Oct. 1, 2014)
- Meyer, M. N.**, *Everything You Need to Know About Facebook's Controversial Emotion Experiment*, *Wired*, June 30, 2014
- Meyer, M. N.** & Chabris, C. F. (2013, September 29). Government: When push comes to nudge. *L.A. Times* (reprinted in *Dallas Morning News*)
- Fossett, J. W., & **Meyer, M. N.** (2011, August). Stem cell policy as bar room brawl: A round in the courts. The Nelson A. Rockefeller Institute of Government, <http://goo.gl/Jmiqkc>
- Fossett, J. W., & **Meyer, M. N.** (2009, July). Bioethics panel's role may be small on policy, big on issues. The Nelson A. Rockefeller Institute of Government, <http://goo.gl/4i9Gta>
- Meyer, M. N.** (2009, July). *States' Regulation of Assisted Reproductive Technologies: What Does the U.S. Constitution Allow?*, The Nelson A. Rockefeller Institute of Government, <http://goo.gl/JBm3E9>
- Meyer, M. N.**, & Fossett, J. W. (2009, June 24). The next President's Council on Bioethics: Who cares what it does? *The Hastings Center Bioethics Forum*, <http://goo.gl/msplhN>
- Meyer, M. N.** (2009, May 5). Throwing the baby out with the amniotic fluid. *Science Progress*, <http://goo.gl/S2BgXf>

## PUBLIC COMMENTS ON DRAFT POLICIES AND REGULATIONS

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- Wagner, J. K. & **Meyer, M. N.** (2020, Jan. 10). Re: Draft NIH Policy for Data Management and Sharing and Supplemental Draft Guidance, 84 FR 60398-60402 (Nov. 8, 2019).
- Meyer, M. N.**, on behalf of PersonalGenomes.org (2016, Jan. 6). Re: Docket Number HHS-OPHS-2015-0008, Federal Policy for the Protection of Human Subjects Notice of Proposed Rulemaking, published in the September 8, 2015 Federal Register (80 FR 53933). Available [here](#).

## EXTERNAL SERVICE

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<b>Family Health Centers of San Diego IRB</b> <i>Non-affiliate IRB member</i>	August 2022–present
<b>National Academies of Sciences, Engineering, and Medicine</b> <i>Study Committee</i> , Study and Recommendations on the HIMS, FADAP, and Other Drug and Alcohol Programs within the USDOT	June 2022–present
<b>OpenNeuro</b> <i>External Advisory Board</i> (honoraria)	April 2022–present
<b>NBER Center for Aging and Health Affiliate</b>	August 2021–present



<b>International Common Disease Alliance</b> <i>Member, Polygenic Risk Score Task Force</i>	March 2021–present
<b>Wharton Behavior Change for Good Initiative</b> <i>Team Scientist</i>	December 2020–present
<b>Gilead Sciences, Inc.</b> <i>Ad hoc international ethics advisory board</i> (advised on equitable distribution of remdesivir; pro bono)	January 2020–June 2020
<b>National Academies of Sciences, Engineering, and Medicine</b> <i>Study Committee, Forecasting Costs for Preserving, Archiving, and Promoting Access to Biomedical Data</i>	January 2019–July 2020
<b>Clinical Genome Resource (ClinGen)</b> <i>Working Group, Complex Diseases and Polygenic Scores</i>	November 2018–present
<b>PatientsLikeMe</b> <i>Ethics &amp; Compliance Advisory Board</i> (paid)	Sept. 2018–Dec. 2019
<b>National Academy of Medicine/Patient-Centered Outcomes Research Institute</b> <i>Working Group, Generating Stakeholder Support and Demand for Health Data Sharing, Linkage, and Use</i>	Oct. 2018–2019
<b>Consortium to Advance Effective Research Ethics Oversight (AEREO)</b> <i>Member of consortium to empirically evaluate IRB effectiveness</i>	May 2018–present
<b>Advances in Methods and Practices in Psychological Science</b> <i>Editorial Board</i>	May 2017– present
<b>Making Science Less WEIRD</b> <i>Scientific Advisory Board</i>	Aug. 2013–present
<b>Social Science Genetic Association Consortium (SSGAC)</b> <i>Advisory Board</i>	Feb. 2011–present
<b>Open Humans Foundation</b> (formerly PersonalGenomes.org) <i>Director and Secretary</i>	April 2014–April 2019
<b>American Psychological Association Commission on Ethics Processes</b> <i>Commissioner; Chair, Committee on Adjudication and Education</i>	Jan. 2016–Sept. 2017

## INTERNAL SERVICE

Geisinger Data Management and Sharing Policy Task Force	November 2022–present
Geisinger Data Sharing Policies Subcommittee	July 2022–present
Geisinger Patient Blood Management Committee	November 2021–present
Geisinger Immunization Strategy Workgroup	August 2020–November 2021
Geisinger COVID-19 Inpatient Protocol Committee	June 2020–December 2021
Geisinger COVID-19 Outpatient Protocol Committee	September 2020–November 2020
Geisinger Mail Order Pharmacy Steering Committee	October 2020–August 2021
Geisinger COVID-19 Vaccine Preparation Committee	October 2020–December 2020
Geisinger COVID-19 Surveillance Testing Committee	July 2020–August 2020
<b>Geisinger COVID-19 Research Oversight Group</b> <i>Co-Chair</i>	March 2020–July 2021
<i>Co-chair, Participant Interaction &amp; Behavioral Studies Workgroup</i>	
<i>Member, Clinical Trials Workgroup</i>	

*Member, Recruitment Strategies for Competing Clinical Trials Workgroup*

<b>Geisinger AI Governance Committee</b> <i>Member</i>	May 2019–present
<b>Geisinger IRB Leadership Committee</b> <i>Chair</i>	March 2017–present
<b>Geisinger IRB</b> <i>Member, ex officio</i>	March 2017–present
<b>Geisinger Research Ethics Advice and Consultation Service</b> <i>Director</i>	March 2017–present
<b>Geisinger Patient Engagement in Research Committee</b> <i>Member, working groups on Informed Consent Access, Communication Strategy, &amp; Metrics</i>	Sept. 2016–present
<b>Geisinger Learning Health Care System Committee</b> <i>Member</i>	Sept. 2016–2019
<b>NIH Precision Medicine Initiative–All of Us Research Program (via Geisinger)</b> <i>Member, Data Privacy and Security Working Group</i> <i>Member, Consent Working Group</i> <i>Member, Publications, Access &amp; Guidelines Working Group</i> <i>Member, Data Access Joint Subcommittee</i> <i>Member, Resource Access Task Force</i>	2016–2017
<b>Union College Institutional Review Board</b> <i>Member</i>	Sept. 2015–Sept. 2016

## INVITED PRESENTATIONS AND WORKSHOP PARTICIPATION

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- “Polygenic risk scoring—the genetic testing industry’s next big product in IVF?,” 2023 Foundation for Reproductive Medicine Conference, New York, NY, Dec. 1–3, 2023
- “Scatter versus decile bar plots: What do different ways of visualizing the same polygenic index-phenotype relationship convey to lay audiences?” Social Science Genetics Seminar/Journal Club Series, Center for Economic and Social Research, University of Southern California, May 4, 2023 (virtual) (R.L. Vogt presenting on behalf of C.F. Chabris, R.M. Mestechkin, M.N. Meyer, and P. Turley (alphabetical))
- Co-moderator, “Wrestling with Social and Behavioral Genomics,” ELSI Friday Forum (NHGRI-funded online seminar series), Jan. 13, 2023
- “Informed Consent When Considering Returning Genetic Results to Survey Participants: The Informed Consent Process,” National Academies Workshop on Considerations for Returning Individual Genomic Results from Population-Based Surveys: Focus on the National Health and Nutrition Examination Survey, Dec. 7, 2022
- Panel speaker, “Why Ethics Supports a Default Rule for Data Sharing and How to Ethically Share Data: Very Brief Thoughts,” Session 3, “Reproducibility and ethics—IRBs and beyond,” in NSF-funded Conference on Reproducibility and Replicability in Economics and the Social Sciences, Oct. 25, 2022
- Plenary paper, Zhang, S., Heck, P., Meyer, M. N., Chabris, C. F., Goldstein, D., Hofman, J. “An illusion of predictability in scientific results,” 2022 Conference on Digital Experimentation @ MIT (CoDE@MIT), Cambridge, MA, Oct. 20–21, 2022 (JH presenting)
- “What Trial Should Proceed, When Not All Can? An Ethics Framework for Prioritizing Trials During the Pandemic and Beyond,” OHRP/Northwell Research Community Forum, May 12, 2022

- Participants in “Data Ownership, Reciprocity, and Research” virtual meeting, The Multi-Regional Clinical Trials Center of Brigham and Women’s Hospital and Harvard Bioethics Collaborative, April 5, 2022
- “Collecting and Managing Your Data: Ethical Considerations,” Workshop: Pathways to Open Science: From proposal to publication. Royal Holloway, University of London, London, UK, July 14, 2021
- “Promoting Uptake of COVID-19 Vaccines Among Health Care Personnel and High-Risk Patients,” Behavioral Science & COVID-19 Vaccine Acceptance convening, U. Penn, Dec. 16, 2020
- Invited participant, “Learning from COVID-19 to Achieve Equitable, High-Value Care: Promoting Health System/Research Partnerships and Collaborations”, virtual convening, Oct. 21, 2020
- Plenary speaker, “Studying Genes and Social/Behavioral Phenotypes Under Broad Consent: Participant Perspectives from Two Biobanks,” 5<sup>th</sup> International ELSI Congress, Columbia University, New York, NY, June 15-17, 2020
- Plenary speaker and panelist, “Sharing Data Responsibly with Researchers, Citizen Scientists & Participants,” conference on “The Power and Perils of Research Data: Generating, Storing & Sharing Data Responsibly,” University of Minnesota, Minneapolis, MN, March 4, 2020
- Plenary, “Objecting to Experiments that Compare Two Unobjectionable Policies or Treatments,” Conference on Digital Experimentation (CODE), MIT, Cambridge, MA, Nov. 1-2, 2019
- “Objecting to Experiments that Compare Two Unobjectionable Policies or Treatments: Implications for Comparative Effectiveness and Other Pragmatic Clinical Trials,” NIH Collaboratory Grand Rounds, webinar, Oct. 11, 2019
- “Conducting Potentially ‘Sensitive’ Research Using Biobank Data Collected Under Broad or Blanket Consent: Participant Perspectives and Responsible Communication,” ELSI Seminar Series, Center for Research on Ethical, Legal & Social Implications of Psychiatric, Neurologic & Behavioral Genetics, Columbia University, New York, NY, Jan. 14, 2019
- Panel Organizer and Speaker, Panel on “Responsible Communication of Social Science Genomic Research,” Polygenic Prediction and its Application in Social Science Conference, University of Southern California, Los Angeles, CA, Nov. 30–Dec. 1, 2018
- “Research Using Social Media Data,” Public Responsibility in Medicine and Research (PRIM&R) annual Advancing Ethical Research Conference, San Diego, CA, Nov. 14–17, 2018
- “Objecting to Experiments that Compare Two Unobjectionable Policies: Experimental Evidence and Implications for Learning Healthcare Systems,” Ethical, Legal and Social Implications of Learning Health Systems (ELSI-LHS) Symposium, University of Michigan, Ann Arbor, MI, Nov. 9, 2018
- “Research Ethics Issues Raised in Collecting and Maintaining Large-Scale, Sensitive Online Data” (presentation of commissioned white paper), Sloan Foundation-funded planning conference to critically evaluate plans for developing a new data sharing institute, Boston, MA, Nov. 8, 2018
- “Why Do People Object to Unobjectionable Experiments? Ethics, Human Research, and A/B Testing,” College of Liberal Arts Symposium (guest of Philosophy Department), Bloomsburg University, Bloomsburg, PA, Oct. 5, 2018
- “Ethical Data Sharing,” Special Symposium, Open Science: From Pre-Registration to Replication to Data Sharing, Society for Psychophysiological Research, Quebec City, Canada, Oct. 3, 2018
- Participant, DARPA-funded Technical Exchange on Complex Social Systems (TECSS), Center for Open Science, Charlottesville, VA, Aug. 28, 2018
- “The A/B Effect and Big Data Ethics,” 4th Annual International Conference on Computational Social Science (IC<sup>2</sup>S<sup>2</sup>), Evanston, IL, Kellogg School of Management at Northwestern University, Evanston, IL, July 13–15, 2018
- “Empirically investigating IRB Quality,” First meeting of Promoting Effective Ethical Review of Research (PEERR): A Consortium to Empirically Evaluate IRB Effectiveness, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA, May 21, 2018
- “The Common Rule and Research with Mobile Devices,” Working Group Meeting: Thought Leader Input and Regulatory Framework, April 24, 2018, Chicago, IL (NIH R01-funded working group, John Wilbanks and Mark Rothstein, co-PIs)

- Michelle N. Meyer, Patrick R. Heck, Geoffrey S. Holtzman, Stephen M. Anderson, William Cai, Duncan J. Watts, & Christopher F. Chabris, "The A/B illusion: objecting to experimentally comparing two unobjectionable policies," Decision Processes Colloquium, Wharton, University of Pennsylvania, March 19, 2018 (presented by C.F.C.)
- Geoffrey S. Holtzman & Michelle N. Meyer, "IRB Risk Aversion and Prospective Participant Welfare," Eastern Division Meeting of the American Philosophical Association, Savannah, GA, Jan. 3, 2018 (presented by G.S.H.)
- Panelist, "Ethics and Privacy in the Era of Big Data," Technology in Psychiatry Summit, Harvard Medical School, Boston, MA, Nov. 7, 2017
- Patrick R. Heck & Michelle N. Meyer, "Social Perceptions of Genomics-Related Information Avoidance," Moral Psychology Research Group conference, Pennsylvania State University, State College, PA, Oct. 4, 2017 (presented by P.R.H.)
- Invited participant, Illumina convening at Cold Spring Harbor Laboratory, May 11, 2017, Cold Spring Harbor, NY
- Keynote, "Reproducibility in Science: What's Research Ethics Got to Do With It?," Canadian Association of Research Ethics Boards (CAREB) National Conference, Halifax, Nova Scotia, Canada, April 27-29, 2017
- Invited Session, "How Meaningful Is 'Choice' Without Education?: Mandated Choice Over Participation in Biospecimens Research in a Time of Misfearing and Regulatory Confusion," American Society of Human Genetics (ASHG) Annual Meeting, Vancouver, Canada, Oct. 19, 2016
- "Ethical issues in funding and conducting social science research incorporating biological measures and mechanisms," Biology and Social Science (BioSS) Working Group meeting, Russell Sage Foundation, Chicago, IL, Oct. 7, 2016
- "Privacy Risk and Big Data: The Promise and Peril of Re-Identification Research," Human Subject Protection Conference, Covington, KY, Oct. 6, 2016
- Responder to Tom Beauchamp on "The Future of Bioethics: Methods, Principles, Practices," The Public Face of Ethics Conference (symposium in honor of James F. Childress), Charlottesville, VA, Sept. 10, 2016
- "Rethinking Research Ethics and Governance in an Era of Learning Healthcare Systems," Northwell Health (formerly North Shore-LIJ), Manhasset, NY, July 27, 2016
- Participant, Inaugural meeting of the Society for the Improvement of Psychological Science (SIPS), Center for Open Science, Charlottesville, VA, June 6-8, 2016
- Keynote, "Bioethics in the Context of Innovation," NPS MedicineWise biannual National Medicines Symposium, Canberra, Australia, May 20, 2016
- Debate participant, "Risk Avoidance Is the Enemy of Innovation," NPS MedicineWise biannual National Medicines Symposium, Canberra, Australia, May 19, 2016
- Workshop participant, Protecting People and Sharing Data, Qualitative Data Repository, New York City, NY, May 12, 2016
- Speaker, HHS Privacy Summit, Washington, D.C., May 12, 2016 (cancelled due to event rescheduling and prior speaking commitment)
- Panelist, "Law and Bioethics" panel, Petrie-Flom Center 10<sup>th</sup> Century Anniversary Celebration, Harvard Law School, Cambridge, MA, March 29, 2016
- Participant, Open Data and Privacy Roundtable, White House Office of Science and Technology Policy (OSTP), Washington, D.C., March 24, 2016
- "Rethinking Research Ethics and Governance in an Era of Learning Healthcare Systems," Geisinger Health System, Danville, PA, March 1, 2016
- Panelist, "Ethical Principles and Review Processes," Workshop on the Ethics of Online Experimentation, 9<sup>th</sup> ACM International Conference on Web Search and Data Mining, San Francisco, CA, Feb. 22, 2016
- Participant, "Beyond IRBs: Designing Ethical Review Processes for Big Data," NSF-supported workshop organized by the Future of Privacy Forum, Washington, D.C., Dec. 10, 2015

- Invited plenary, “Picked Out of a Crowd: Privacy and Re-Identification Research,” Public Responsibility in Medicine and Research (PRIM&R) Advancing Ethical Research Annual Conference, Boston, MA, Nov. 14, 2015
- Invited delegate and speaker, “Digital phenotypes—Health research in the digital age?,” Wellcome Trust Frontiers Meeting, London, UK, Nov. 5–6, 2015
- Invited panelist, “Big Data Out of Context: Building a Privacy Review Board,” International Association of Privacy Professionals (IAPP) Privacy. Security. Risk. Conference, Las Vegas, NV, Sept. 30, 2015
- “Did Facebook Have an Ethical Obligation to Conduct Its ‘Mood Contagion’ Experiment?: Corporate Responsibility for Rigorously Establishing the Safety and Efficacy of Products and Services,” Legal Studies and Business Ethics Speaker Series, Wharton, Philadelphia, PA, April 13, 2015
- “Two Cheers for (Some) Nonconsensual Corporate Experimentation,” Department of Philosophy, Carnegie Mellon University, Pittsburgh, PA, March 2, 2015
- Invited speaker, Session on “Manipulating Emotions on the Internet: The Cases of Facebook and OkCupid,” Public Responsibility in Medicine and Research (PRIM&R) Annual Conference, Baltimore, MD, Dec. 6, 2014
- Invited panelist, “Human Subjects Research Regulation: Perspectives on the Future,” Research Ethics Book Group Lunch and Meet the Authors session, Public Responsibility in Medicine and Research (PRIM&R) Advancing Ethical Research Annual Conference, Baltimore, MD, Dec. 5, 2014
- Invited speaker, Conference on “When Companies Study Their Customers: The Changing Face of Science, Research, and Ethics,” sponsored by the Silicon Flatirons Center for Law, Technology, and Entrepreneurship and the Tech Policy Lab at the University of Washington, Boulder, CO, Dec. 4, 2014
- Invited speaker, Health Law Society panel on Ebola, Albany Law School, Albany, NY, Nov. 20, 2014
- Invited panelist, “Human Subjects Research Regulation: Perspectives on the Future,” Harvard Law School, Cambridge, MA, Oct. 22, 2014
- Invited panelist, Ethics session, Conference on Digital Experimentation (CODE), MIT, Cambridge, MA, Oct. 10, 2014
- Invited Session, “Neither Duty Nor Prohibition: Using Private Ordering to Transcend ‘One-Size-Fits-All’ in Large-Scale Sequencing of Human Beings,” American Society of Human Genetics (ASHG) Annual Meeting, Boston, MA, Oct. 23, 2013 (unable to present due to illness)
- “The Ethics of IRB Risk-Benefit Analysis,” Harvard Medical School, Cambridge, MA, April 4, 2013
- “Ethical Issues in the Genetics of Social Science,” Workshop to Extend the Social Science Genetic Association Consortium (SSGAC) to New Phenotypes, Los Angeles, CA, Oct. 29, 2011
- “Regulating the Production of Knowledge: The Heterogeneity Problem in Human Subject Research and Its Private Ordering Solution,” Health Law Scholars Workshop, Center for Health Law Studies, Saint Louis University School of Law, St. Louis, MO, Sept. 15–17, 2011
- Commenter, Ethics Consortium, Harvard Medical School, January 7, 2011 (invited commenter before members of ethics committees of Harvard-affiliated hospitals on legal and ethical aspects of case involving presymptomatic genetic testing of a minor)

## **PLATFORM PRESENTATIONS AT ACADEMIC CONFERENCES**

(presentation of solo-authored work, unless otherwise specified; supervisee; \* contributed equally)

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- Meyer, M.N.**, Parens, E., Lee, S. S.-J., Harden, K., Turley, P. Invited Session: “Wrestling with social and behavioral genomics: Risks, potential benefits, and ethical responsibility,” ASHG Annual Meeting, Washington, D.C., Nov. 4, 2023
- Wagner, J. K., Tanniru, J., Chane, C. A., **Meyer, M. N.** “Assessing a legal pathway to implement a cascade traceback screening program for ovarian cancer,” ASHG Annual Meeting, Los Angeles, CA, Oct. 28, 2022 (JKW presenting)

- Zhang, S., Heck, P., **Meyer, M. N.**, Chabris, C. F., Goldstein, D., Hofman, J. “The illusion of predictability in common scientific visualizations,” 8th International Conference on Computational Social Science (IC<sup>2</sup>S<sup>2</sup>), Chicago, IL, July 19–22, 2022
- Meyer, M. N.**, Gjorgjieva, T., Chabris, C. F., “Laypeople overestimate the predictive power of polygenic scores but do not view them as any more anxiety-producing than other scores for the same trait,” 2022 Behavior Genetics Association (BGA) Annual Meeting, Los Angeles, CA, June 22–25, 2022
- Benjamin, D., Laibson, D., **Meyer, M. N.**, Tan, T., Turley, P. (alphabetical), “Intention among Americans to use genetic reproductive technologies to increase offspring educational attainment even modestly is substantial, higher among those who already have higher educational attainment, and subject to a modest bandwagon effect,” 2022 Behavior Genetics Association (BGA) Annual Meeting, Los Angeles, CA, June 22–25, 2022 (Tan presenting)
- Augusto de Araujo, F., Chabris, C. F., **Meyer, M. N.**, “The effect of experience and repeated exposure on base-rate neglect: A study with medical professionals,” 2022 World Economic Science Association (ESA) Conference, MIT, Cambridge, MA, June 13–16, 2022 (Augusto de Araujo presenting)
- Zhang, S., Heck, P., **Meyer, M. N.**, Chabris, C. F., Goldstein, D., Hofman, J. “The illusion of predictability in common scientific visualizations,” 1st annual International Conference on the Science of Science & Innovation, National Academy of Sciences, Washington, D.C., June 7–9, 2022 (Hofman presenting)
- Meyer, M. N.**, Gjorgjieva, T., Chabris, C. F., “Laypeople overestimate the predictive power of polygenic scores but do not view them as any more anxiety-producing than other scores for the same trait,” 6<sup>th</sup> International ELSI Congress (virtual), May 31, 2022
- Rosenbaum, G., Shermohammed, M., Goren, A., Lanyado, A., Yesharim, R., Wolk, D. M., Doyle, J., **Meyer, M. N.**,\* Chabris, C. F.,\* “Informing patients that they are at high risk for serious complications of viral infection increases vaccination rates,” 2021 Society for Judgment and Decision Making (SJDM) Annual Meeting, University of California, San Diego, San Diego, CA, Feb. 10–12, 2022 (Rosenbaum presenting)
- Rosenbaum, G., Shermohammed, M., Goren, A., Lanyado, A., Yesharim, R., Wolk, D. M., Doyle, J., **Meyer, M. N.**,\* Chabris, C. F.,\* “Effect of AI-determined high-risk warnings on flu vaccination rates: Two field experiments,” 2021 Behavioral Science and Health Symposium, University of Pennsylvania, Dec. 1, 2021 (Chabris presenting)
- “Ethical Challenges in Trial Prioritization and Participant Allocation During COVID-19 and Beyond,” American Society for Bioethics and Humanities (ASBH) 2021 Annual Meeting, virtual, Oct. 15, 2021
- Santos, H. C., Goren, A., Chabris, C. F.\* & **Meyer, M. N.**\*; “Reminders designed with behavioral science features increase COVID-19 vaccination,” 2021 Nudges in Health Care Symposium, University of Pennsylvania, Philadelphia, PA, May 2021 (Santos presenting)
- “COVID-19 experiment aversion,” 2020 Behavioral Science & Health Symposium, University of Pennsylvania, Nov. 4, 2020
- “Managing Mental Models of Research(ers): Lessons from Geisinger’s Behavioral Insights Team,” in panel session on “HSR in Health Systems: Strategies for Managing the Conflicts Between Research and Operational Priorities and Needs,” AcademyHealth Annual Research Meeting, Boston, MA, July 30, 2020
- “The A/B Effect: Objecting to Experiments that Compare Two Unobjectionable Policies or Treatments,” 2019 Behavioral Science & Health Symposium, University of Pennsylvania, Nov. 22, 2019
- “Starting a Nudge Unit: Lessons Learned from the First Year of Geisinger’s Behavioral Insights Team,” 2019 Nudges in Health Care Symposium, University of Pennsylvania, Philadelphia, PA, Sept. 16, 2019
- “Patient-Participant Perspectives on Potentially ‘Sensitive’ Genetics Research Conducted Under Broad Consent to an Unselected Biobank: A Mixed Methods Study,” 20<sup>th</sup> Annual Meeting of the American Society of Bioethics & Humanities (ASBH), Anaheim, CA, Oct. 21, 2018
- Meyer, M. N.**, Heck, P. R., Holtzman, G. S., Anderson, S. M., Cai, W., Watts, D. J., & Chabris, C. F. “The A/B illusion: objecting to experimentally comparing two unobjectionable policies,” Behavioral

Decision Research in Management conference, Harvard Business School, Boston, MA, June 8, 2018 (presented by C.F.C.)

“(Still) Waiting to Exhale: Why the Future of Biospecimens Research Remains Unclear After the Final Rule,” part of panel on “Developments in Human Subjects Research Regulation,” 40<sup>th</sup> Annual Health Law Professors Conference (ASLME), Atlanta, GA, June 9, 2017

“The Learning Health Care System approach to implementing genomics in the clinic,” 4<sup>th</sup> International ELSI Congress, Farmington, CT, June 5, 2017

“Pregnancy Exclusions: Marliese Munoz and Limits on the Health Care Decision Making of Pregnant Women,” American Society for Bioethics and Humanities (ASBH) 2015 Annual Meeting, Houston, TX, Oct. 22, 2015

Organizer, moderator and panelist, “Defining and Measuring IRB Effectiveness,” American Society of Law, Medicine, and Ethics (ASLME), Seton Hall Law School, Newark, NJ, June 7, 2013

“Risk-Proportionate Regulation and the Challenge from Participant Heterogeneity,” conference on The Future of Human Subjects Research Regulation, Harvard Law School, Cambridge, MA, May 18, 2012

“The Researcher-Subject Relationship as Governed By Donative Contract: A Middle Position in the Debate Over Returning Individual Research Results,” American Society for Bioethics and the Humanities (ASBH) Annual Meeting, Washington, D.C., October 16, 2009

“Our Posthuman Future and the Future of Substantive Due Process Jurisprudence: Prenatal Genetic Enhancement, Procreative Liberty, and Parental Liberty,” American Society for Bioethics and the Humanities (ASBH) Annual Meeting, Cleveland, OH, October 24, 2008

“A Sartrean Correction of Reinhold Niebuhr’s Doctrines of Sin and Evil: Towards a Broader Understanding of the Oppressor and the Oppressed,” Southeast Commission for the Study of Religion (SECSOR), Charlotte, NC, March 18, 2001

## **POSTER PRESENTATIONS AND ABSTRACTS AT ACADEMIC CONFERENCES**

(<sup>§</sup>corresponding author; supervisee; \*contributed equally)

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Goren A., Shermohammed, M., Rosenbaum, G., Meyer, M.N.,\* & Chabris, C.F.\* (2022). “A well-timed reminder can increase patient portal enrollment by 200%,” poster presented at 2021 Society for Judgment and Decision Making (SJDM) Annual Meeting, University of California, San Diego, San Diego, CA, Nov. 19–21, 2021 (Goren presenting; conference delayed and held online due to COVID-19)

Santos, H., Goren, A., Meyer, M.N.,\* & Chabris, C.F.\* (2022). “Loss framing and social norms nudges to encourage enrollment in an employee wellness program: A pragmatic trial,” poster presented at 2021 Society for Judgment and Decision Making (SJDM) Annual Meeting, University of California, San Diego, San Diego, CA, Nov. 19–21, 2021 (Santos presenting; conference delayed and held online due to COVID-19)

Shermohammed, M., Goren, A., Lanyado, A., Yesharim, R., Wolk, D. M., Doyle, J., Meyer, M. N.,\* & Chabris, C. F.,\* “Informing patients that they are at high risk for serious complications of viral infection increases vaccination rates,” abstract posted at 2021 Nudges in Health Care Symposium, University of Pennsylvania, Philadelphia, PA, May 2021, <https://nudgeunit.upenn.edu/2021-nudges-health-care-symposium-abstracts>

Shermohammed, M., Goren, A., Chabris, C. F.,\* & Meyer, M. N.,\* “A well-timed reminder can increase patient portal enrollment by 200%,” abstract posted at 2021 Nudges in Health Care Symposium, University of Pennsylvania, Philadelphia, PA, May 2021, <https://nudgeunit.upenn.edu/2021-nudges-health-care-symposium-abstracts>

## **INTERNAL SEMINARS AND GRAND ROUNDS**

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- “Using Behavioral Science to Make Better Health Easier,” Clinical Research Grand Rounds, Geisinger Health System, August 23, 2021 (with Christopher Chabris)
- “Experiment Aversion and Expanded Access to Investigational Drugs.” Working Group on Compassionate Use and Preapproval Access (CUPA), Division of Medical Ethics, NYU Grossman School of Medicine, New York, NY (virtual), May 13, 2021
- “The A/B Effect: A Threat to Evidence-Based Medicine?,” Geisinger Medicine Grand Rounds, Danville, PA (March 13, 2020; postponed due to COVID-19)
- “What’s Really Wrong with IRBs? Their Surprising Flaw and the Even More Surprising Solution to It,” Union Graduate College, Schenectady, NY, April 12, 2011
- “Regulating the Production of Knowledge,” Harvard Law School Health Law Policy Workshop, Cambridge, MA, April 4, 2011
- “The Constitution and the Mythical Right to Procreate,” Johns Hopkins Berman Institute of Bioethics Research Retreat, Baltimore, MD, April 24, 2009

## AWARDED GRANTS

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- R01HG009671** (Buchanan) 9/01/2018 – 6/30/2023  
Meyer – Co-Investigator  
NIH/NHGRI  
*Returning Adult-Onset Incidental Genomic Findings to Pediatric Biobank Participants*
- The goals of this project are to assess the psychosocial, behavioral and legal impact of disclosing adult-onset genomic findings to children and their parents, thereby providing much-needed guidance to national and international groups performing genome-scale testing of children, as well as other groups considering population screening for genomic conditions. Legal aim: investigate implications of the loss of chance doctrine for policies regarding pediatric return of results.
- R01CA211723-03S1** (Rahm PI; Meyer Study Lead) 08/1/2019 – 7/31/2020  
NIH/NCI  
*Assessing Non-Inferiority of Scalable eConsent for Genomics*
- This randomized, controlled, non-inferiority trial will compare electronic consent (eConsent) to traditional consent to participation in the MyCode biobank. It will determine whether scalable eConsent is appropriate to use for genomic sequencing and will also help identify aspects of genomic screening that are difficult for patients to understand or that they express a preference to learn more about, which will inform all consent processes, both eConsent (including the eConsent used in the NIH *All of Us* Research Program) and traditional, and potentially improve uptake of Lynch Syndrome screening.
- 010623-00001** (Benjamin) 01/01/2019 – 12/31/2021  
Meyer – Subaward PI  
Open Philanthropy  
*Ethical, Legal and Social Implications of Social/Behavioral Genomics and Polygenic Scores*
- The aims of this subaward are to conduct empirical, policy, and normative work related to the Ethical, Legal, and Social Implications of behavioral genomics research and polygenic scores.
- 76565** (Parens PI; Meyer Co-PI) 8/15/2019 – 8/14/2022  
Robert Wood Johnson Foundation
- 1903-13498** (Parens PI; Meyer Co-PI) 7/1/2019 – 06/30/2021  
Russell Sage Foundation and JPB Foundation  
*Wrestling with Social/Behavioral Genomics: Risks, Potential Benefits, and Ethical Responsibility*



The purpose of this project (co-funded by RSF, RWJF, and the JPB Foundation) is to facilitate a frank and rigorous conversation among people who are hopeful about the benefits of social/behavioral genomic research and those who have concerns about it. Even if we cannot reach consensus regarding the line between ethically acceptable and unacceptable forms of such research, we will develop advice about how to conduct it and disseminate its results in ways that minimize its harms and maximize its benefits.

**2 P30 AG034532** (Doyle; Laibson)

7/1/2019 – 6/30/2024

Meyer – Subaward Co-PI

NIH/NIA

*NBER Roybal Center for Behavior Change in Health*

The NBER Roybal Center for Behavior Change in Health intends to initiate 3 pilot projects each year; of these, we anticipate 1 or 2 each year will be designed for and implemented within the Geisinger Health System. An internal Geisinger committee will be responsible for identifying the most promising Geisinger pilot projects and presenting them to the Roybal Center's co-PIs and advisory committee for further consideration and approval. Additional funds from the parent grant will be disbursed to Geisinger to fund pilot projects as needed.

**1 U01 CA 240747** (Rahm; Henrikson; Cabell)

06/01/2020 – 03/31/2024

Meyer – Co-Investigator

NIH/NCI

*Feasibility and assessment of a cascade traceback screening program (FACTS)*

This study will determine how to communicate to ovarian cancer patients about the availability of genetic testing and how to facilitate testing with at risk relatives. Legal aim: survey of the privacy laws across all 50 states and analysis of whether these laws facilitate or hinder the notification and testing of at-risk relatives.

**5 P30 AG034532-12** (Meyer; Chabris)

6/1/2020 – 5/31/2021

NBER Roybal Center for Behavior Change in Health

*Encouraging Flu Vaccination Among High-Risk Patients Identified by a Machine-Learning Model of Flu Complication Risk*

This pilot project investigates the optimal way to inform patients identified by a machine learning algorithm to be a very high risk for flu-related complications.

**5 P30 AG034532-12** (Milkman; Patel)

6/1/2020 – 5/31/2021

Meyer – Co-Investigator

NBER Roybal Center for Behavior Change in Health

*Testing Multiple Behavioral Science Strategies to Increase Flu-Shot Rates*

This pilot project will experimentally test a variety of nudges in ~160,000 Penn Med and Geisinger patients to determine which are most effective in encouraging flu vaccination in the general population.

**1 R01HG011051-01A1** (Wagner)

04/01/2021 – 03/31/2023

Meyer – Subaward PI

NHGRI

*Consumer Protections for Genomics & Precision Health*

The parallel aims of this exploratory study are to characterize the federal and state consumer protections available in the United States for personal genomics and precision health. Legal and policy research will be conducted to identify and critically examine the activities undertaken by the Federal Trade

Commission and state Attorneys General offices on matters of (1) DTC personal genomics tests, services, and products; (2) mobile health apps; and (3) data broker services.

**5 P30 AG034532-13** (Meyer; Chabris) 6/1/2021 – 5/31/2022  
 NBER Roybal Center for Behavior Change in Health  
 Using Explainable AI Risk Predictions to Nudge Influenza Vaccine Uptake

This pilot project will extend our Year 12 pilot in which we found that informing patients identified by a machine learning algorithm that they are at high risk of flu-related complications increases their uptake of the flu vaccination. This year, we will test whether providing each patient brief explanation of the factors that put them at high risk increases the patient’s chance of obtaining the flu vaccine (relative to more generic statements about their risk status, or to two control conditions).

**5 P30 AG034532-13** (Meyer; Chabris) 6/1/2021 – 5/31/2022  
 NBER Roybal Center for Behavior Change in Health  
 Lottery Incentive Nudges to Increase Influenza Vaccinations

This pilot project (a collaboration with Katy Milkman of Penn Wharton and Richard Thaler of Chicago Booth) will investigate which, if any, of several small incentives (including scratch-off Lotto tickets with a \$1 face value, a guaranteed \$1 payout, or sweepstakes entries with various expected payouts) increase uptake of flu vaccination among patients with upcoming doctor appointments.

**5 P30 AG034532-13** (Doyle/Laibson PIs; Meyer/Chabris Study Co-Leads) 8/13/2021 – 5/31/2022  
 NIA/FDA  
 Understanding and Ameliorating Aversion to Pragmatic Healthcare Experiments

Experiments to determine whether “nudges” and other behavioral interventions can improve people’s health are sometimes controversial, and people often object to being included in experiments they did not know about. This project will conduct studies with online participants and healthcare providers to determine what specific features or types of experiments explain people’s objections, and test ways of describing experiments and their value for improving public health that might ameliorate aversion to experimentation. The project will publish the scientific results of these studies, as well as a practical guide for policymakers and leaders in healthcare to help them better communicate their decisions to carry out experiments and minimize misunderstanding and mistrust among patients, employees, and other stakeholders.

**3 UL1TR001878-06S1** (FitzGerald PI; Lynch Study Lead) 8/13/2021 – 5/31/2022  
 Meyer – Subaward PI  
 NIH/NCATS

Extending Lessons from COVID-19 Trial Prioritization Beyond the Pandemic: A Qualitative Study of Site-Level Prioritization Approaches and a New Ethical Framework

Allowing trials to compete for limited human and material resources at the sites where they are conducted is an ethical challenge that risks delayed research results and failure to meet the most important patient needs. Understanding how Clinical and Translational Science Award Program Hubs and Health Care Systems Research Network sites have prioritized COVID-19 trials, the challenges they have faced, and their perspectives on trial prioritization beyond the pandemic will help inform a new ethical framework for site-level trial prioritization within and across disease areas. Overall, this project will advance the goal of extending pandemic research lessons in order to foster the highest priority research for the benefit of patients.

**2131929** (Lazer PI, Wilson & Choffnes Co-PIs) 10/1/2021 – 9/30/2026  
 Meyer – Subaward PI/Senior Personnel

NSF

Mid-scale RI-1 (M1:IP): Observatory for Online Human and Platform Behavior

Online behavior is eminently worthy of a major infrastructure investment for research. The Internet is a transformational phenomenon, akin to the rise of the printing press centuries ago. It is a fundamental, and global, reorganization of humanity. This means that it is pervasive to almost all human phenomena. It is reorienting markets. It is transforming society. It is disrupting politics. And much as the printing press left a detailed record of history that did not have a parallel before, the Internet enables a detailed, real time instrumentation of human behavior at a scale and granularity that would have seemed like science fiction just a generation ago. This instrumentation, we note, is now largely done by private companies, for private purposes, is generally not scientifically validated, and occurs with minimal informed consent or oversight. There is thus a huge need to build a secure, privacy-protecting, ethically robust, scientifically valid online behavioral research observatory.

**5 P30 AG034532-14** (Meyer; Chabris)

6/1/2022 – 5/31/2023

NBER Roybal Center for Behavior Change in Health

Patient- and Clinician-Facing Nudges to Increase Influenza Vaccine Uptake

This project involves pragmatic RCTs of multiple patient-facing nudges (e.g., patient portal messages inviting them to self-schedule flu shots; messages via several modalities informing them they are at increased risk for flu-related complications that can be mitigated by vaccination; pre-appointment questionnaires inviting them to indicate they want to receive a flu shot or want to discuss the flu shot with their clinician) and clinician-facing nudges (electronic health record best practice alerts informing clinicians that their patient wants a flu shot, wants to discuss a flu shot, or is at increased risk for flu-related complications) to increase uptake of flu vaccination.

**ADDITIONAL GRANTS: CONSULTING****R01AG081518-01** (PI: Patrick Turley)

4/2023 – 5/2026

NIA

Studying the Genetics of Aging, Behavioral, and Social Phenotypes in Diverse Populations

This project aims to develop tools to promote genetic research of aging, behavioral, and social phenotypes in diverse populations. Existing comparable tools require that researchers omit some data when those data come from diverse populations, whereas our proposed tools account for population differences in a way that allows researchers to use much more data in more diverse samples. Using these tools, we will be able to make scientific discoveries that are more representative of the global population, which will reduce the potential for unequal benefits from genetic research. While polygenic prediction is always subject to misinterpretation, polygenic prediction across ancestry groups is particularly fraught. In all three Aims, we will pursue several strategies to prevent misunderstanding and misuse of multi-ancestry PGSs.

**R01TR004244** (PI: Kayte Spector-Bagdady)

8/2022 – 5/2026

NCATS

Hospitals Sharing Patient Data and Biospecimens with Commercial Entities: Evidence-Based Translation to Improved Practice

The aims of this R01 include (1) interviews with hospital representatives to explore the components of their existing data sharing policies as well as priorities, (2) a survey of hospital representatives to generalize our interview results and assess whether hospital characteristics are associated with certain policy components, and (3) a survey with a diverse sample of patients to measure patient preferences and responses to specific components of hospital policies.

**3R01EB027650-03S1** (Study Leads: Laura Cabrera, Sara Gerke, Daniel Susser) 10/2022 – 9/2023  
NIH/Office of the Director

This supplement to “PREMIERE: A PREdictive Model Index and Exchange Repository” (Alex Bui, PI) will explore the ethics of synthetic data and the utility of ELSI-focused computational checklists for biomedical AI/ML.

**2R01AG042568-04A1** (PI: Dan Benjamin) 9/2020 – 5/2022  
NIH/NIA  
Genome-Wide Analyses of Health and Well-Being Phenotypes

**R24AG065184** (PI: Daniel Benjamin) 9/2019 – 5/2024  
NIH/NIA  
Infrastructure and Core Activities of the Social Science Genetic Association

## MENTORING

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Patrick Heck, PhD (social psychology), Postdoctoral Fellow, 2017–2019; Staff Scientist, 2019–2021  
Geoff Holtzman, PhD (philosophy), Postdoctoral Fellow, 2017–2018  
Stephen Anderson, BS, Predoctoral Fellow, 2017–2018  
Henri Carlo Santos, PhD (social psychology), Postdoctoral Fellow, 2018–2019; Staff Scientist, 2019–  
Pedram Heydari, PhD (behavioral economics), Postdoctoral Fellow, 2018–2020  
Anh Huynh, BS, Predoctoral Fellow, 2018–2020  
Amir Goren, PhD (social psychology), Program Director, Behavioral Insights Team, 2018–  
Maheen Shermohammed, PhD (cognitive psychology), Staff Scientist, 2019–2021  
Daniel Rosica, BS, Predoctoral Fellow, 2020–2021  
Tami Gjorgjieva, BS, Predoctoral Fellow, 2020–2022  
Gail Rosenbaum, PhD, Staff Scientist (psychology and neuroscience), 2021–  
Randi Vogt, PhD, Postdoctoral Fellow (social & personality psychology), 2022–  
Rebecca Mestechkin, BS, Predoctoral Fellow, 2022–  
Tessy A. Thomas, DO, MBE, Assistant Professor, 2022–  
Gretchen Saunders, PhD (psychology), Research Scientist, Dept. of Psychology, University of Minnesota  
(K award mentor)

## TEACHING EXPERIENCE

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**Geisinger Health System and Geisinger Commonwealth School of Medicine** Danville, PA

- “Using Behavioral Science to Make Better Health Easier,” Master of Biomedical Sciences program, Geisinger Commonwealth School of Medicine, 2021-22
- “Research During a Pandemic,” Master of Biomedical Sciences program, Geisinger Commonwealth School of Medicine, 2020-21
- “Oversight in a Learning Health System,” Learning to Engage and Be Engaged (PCORI-funded curriculum), March 25, 2020
- “Ethics of Health Nudges,” Clinical Informatics Fellowship, May 22, 2019
- “Ethics of Big Data Experimentation,” Clinical Informatics Fellowship, Feb. 14, 2019; April 5, 2017
- “Ethical and Regulatory Issues in e-Consent to Research,” May 3, 2017

**Clarkson University-Icahn School of Medicine at Mount Sinai** New York City & Schenectady, NY  
**Bioethics Program**

- Capstone in Bioethics Policy (Summer 2015)

- Practicum in Bioethics Policy (Spring 2015, 2016)
- Advanced Bioethics Policy: Philosophical, Economic, & Psychological Foundations (Fall 2014, 2015)
- Public Health Ethics (co-taught Winter 2014)
- Health and Human Values Proseminar (collaboratively taught Summer 2013, 2014, 2015)
- Bioethics and the Law (Spring 2010\*, 2013\*, 2014\*, 2015, 2016) (\*co-taught)
- Advanced Bioethics (co-taught Fall 2009)

**Albany Law School**

Albany, NY

- Law and Bioethics (Fall 2013, 2015)

**Harvard Law School**

Cambridge, MA

- Regulating the Production of Knowledge: The Law and Ethics of Research (Spring 2012)

**University of Virginia** Charlottesville, VA

*Instructor*

1998–2002

- Moral Status in Bioethics Depts. of Philosophy & Religious Studies, Spring 2002  
Designed and taught upper-level seminar for undergraduate majors.
- Religious Ethics and Moral Problems Dept. of Religious Studies, Spring 2001  
Designed and taught large lecture course in contemporary applied ethics. Supervised four Teaching Assistants. Topics included capital punishment, affirmative action, pornography, same-sex marriage, war, environmental ethics, animal welfare.
- Business Ethics McIntire School of Commerce, Fall 1999  
Designed and taught introductory course to honors students at UVA's undergraduate commerce school.
- Introduction to Medical Ethics UVA Medical School, Spring 1999  
Co-taught introduction to clinical ethics to first-year medical students.
- Theology, Ethics, and Health Care Dept. of Religious Studies, Summer 1998  
Co-designed and -taught introductory course in bioethics to undergraduates.

*Teaching Assistant*

Dept. of Religious Studies, 1997–1999

- The Human Body and Its Parts as Property (Prof. James Childress)
- Theology, Ethics and Health Care (2x) (Prof. James Childress)
- Religious Ethics and Moral Problems (Prof. Charles Mathewes)

**Dartmouth Ethics Institute**, Dartmouth College

Hanover, NH

*Teaching and Research Assistant*

1995–1996

- Assisted Reproduction: The Scientific, Ethical, and Social Challenges of a New Biomedical Technology (Prof. Ronald Green)

**Woodstock Community Correctional Center** (medium security prison)

Woodstock, VT

*Volunteer Instructor* (Moral Reasoning; Creative Writing; French)

1992–1994

**World Relief** (serving political and religious refugees)

Chicago, IL

*Volunteer Instructor* (English as a Second Language)

1990–1992

**Guest Lectures**

- “Ethical Issues in Precision Health,” guest lecture in “Precision Healthcare” MBA class (Prof. Daniel Benjamin), UCLA Anderson School of Management, Jan. 19, 2023 (virtual)
- Guest lecture in “Communicating Care” class (Prof. Kelley Wagers), Department of English, Pennsylvania State University–Scranton, Oct./Nov. 2022
- “Privacy, Patient Communication, Bioethics, and Business Ethics,” guest lecture in “Precision Healthcare” MBA class (Prof. Daniel Benjamin), UCLA Anderson School of Management, May 2 & 5, 2022 (virtual)

- “Responsible Conduct of Research and the COVID-19 Pandemic: Beyond the Common Rule,” Research Ethics and Conduct (Clinical Research Training Program), Duke University, Feb. 28, 2022
- “Two barriers to learning health systems: experiment aversion and the research-practice distinction,” course on Biomedical Engineering, Law, & Policy, College of Engineering, Pennsylvania State University, Feb. 9, 2022
- “Why and How to Responsibly Communicate Social Science Genomics Research,” Russell Sage Foundation Summer Institute in Social Science Genomics, Stowe, VT, August 12, 2021
- “Including Genomics in Social Science Research: Ethical Issues,” Russell Sage Foundation Summer Institute in Social Science Genomics, Santa Barbara, CA, June 12, 2019
- “Conducting Potentially “Sensitive” Research Using Biobank Data Collected Under Broad or Blanket Consent: Participant Perspectives and Responsible Communication,” Russell Sage Foundation-funded Summer Institute in Social-Science Genomics, Santa Barbara, CA, June 13, 2019
- “Ethical Considerations in Behavioral Genetics Research,” Russell Sage Foundation-funded Summer Institute in Social-Science Genomics, Santa Barbara, CA, June 12, 2017
- “Why the Debate about Corporate Research Matters for the Future of Learning Healthcare Systems” for Law, Research and Bioethics, Master of Arts in Bioethics and Science Policy Program, Duke University, Nov. 15, 2016
- “Ethical Considerations in Behavioral Genetics Research,” Russell Sage Foundation-funded Summer Institute in Social-Science Genomics, New Brunswick, NJ, June 20, 2016
- “Why the Debate about Corporate Research Matters for the Future of Learning Healthcare Systems” for Law, Research and Bioethics, Master of Arts in Bioethics and Science Policy Program, Duke University, Nov. 3, 2015
- “Research Risk-Benefit Analysis and the Heterogeneity Problem” for Advocacy and Activism among Patients and Research Participants, Master of Arts in Bioethics and Science Policy Program, Duke University, April 1, 2015
- “Abortion and the Law” for second-year medical students at Albany Medical School, Albany, NY, April 17, 2014
- “Research Participation: Is There a Better Way?” Guest lecturer in Prof. Misha Angrist’s class, Genome Sciences and Society, Duke University, March 27, 2013
- “The Role of Rationality in Regulation and Public Policy” for Logic, Rationality, and Life (interdisciplinary undergraduate course), Union College, Schenectady, NY, April 30, 2012

## OTHER PROFESSIONAL EXPERIENCE

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<b>Icahn Institute for Genomics and Multiscale Biology at Mount Sinai</b> <i>Consultant</i> (paid)	New York, NY Aug. 2015–May 2016
Advised on ethical and legal issues related to Resilience Project (ResearchKit-based genomics study)	
<b>Kellogg, Huber, Hansen, Todd, Evans &amp; Figel, PLLC</b> <i>Summer Associate</i>	Washington, DC Summer 2005
<b>Harris, Wiltshire &amp; Grannis, LLP</b> <i>Summer Associate</i>	Washington, DC Summer 2005
<b>Lawyers’ Committee for Civil Rights Under Law</b> <i>Intern</i>	Boston, MA Spring 2005
<b>Professor Christine Jolls</b> <i>Research Assistant</i>	Cambridge, MA 2005–2006

**Criminal Appellate Section, United States Department of Justice**  
*Summer Intern Summer 2004*

Washington, DC

**Professor John C. Fletcher**, Director, Center for Biomedical Ethics, UVA Medical Center  
*Research Assistant*

Charlottesville, VA, 1997–1998

## REFEREE SERVICE

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- Grant reviewer, Science of Science & Innovation Policy (SciSIP), National Science Foundation; Russell Sage Foundation
- Journal reviewer: *Advances in Methods and Practices in Psychological Science*, *American Journal of Bioethics*, *American Journal of Public Health*, *Annals of Internal Medicine*, *Behavioral Science & Policy*, *Bioethics*, *Biopreservation and Biobanking*, *BioSocieties*, *Clinical Trials*, *Ethics & Behavior*, *Genetics in Medicine*, *Hastings Center Report*, *Infection Disease & Health*, *JAMA Network Open*, *Journal of Behavioral and Experimental Economics*, *Journal of Business Ethics*, *Journal of Empirical Research on Human Research Ethics*, *Journal of Genetic Counseling*, *Journal of Law and the Biosciences*, *Journal of Law, Medicine, & Ethics*, *Mayo Clinic Proceedings*, *Nature Biotechnology*, *Nature Communications*, *New Media and Society*, *Perspectives on Psychological Science*, *Proceedings of the National Academy of Sciences*, *SAGE Open Medicine*, *Science*, *Social Psychological and Personality Science*
- Guest editor (one manuscript), *Proceedings of the National Academy of Sciences*, 2020
- Signed comments (one manuscript), *Nature Human Behavior*, 2022
- Reader of NSF-funded white paper by Hank Greely and Jennifer Kulynych, “Clinical Genomics, Big Data, and Electronic Medical Records: Reconciling Patient Rights with Research when Privacy and Science Collide” (Fall 2015; honorarium)

## MEDIA MENTIONS AND APPEARANCES

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Work covered by (select) U.S. news outlets: ABC News, *The Atlantic*, *Bloomberg News*, *Business Insider*, *Chronicle of Higher Education*, CNN, *The Daily Dot*, *Daily Mail*, *Detroit Free Press*, *The Economist*, *Financial Times*, *Forbes.com*, Freakonomics podcast, *Gizmodo*, *Harvard Business Review*, *i09*, *Marginal Revolution*, *Medscape*, *Mother Jones*, *MSN*, *Nature*, *Nautilus*, *NBC News*, *New York Times*, *PBS*, *Popular Mechanics*, *Psychology Today*, *Scientific American*, *Slate*, *STAT*, *UPI*, *USA Today*, *U.S. News & World Report*, *Vox*, *The Washington Post*, *Wired*, *Yahoo!*, *Yahoo! Finance*

Work covered by (select) international news outlets: Amed Post (Turkey), CNN Philippines, CTV National News (Canada), *Wiener Zeitung* (national paper of Austria), *El Pais* (Spain), *Todo Noticias* (Spain), *Times Literary Supplement* (UK), *Olhar Digital* (Brazil), *HVG* (formerly *Heti Világgazdaság*; Hungary’s leading economic and political weekly), *RT Actualidad* (Russia), *Fanpage* (Italy), *Die Welt* (German daily newspaper), *Orf* (Austria), *Augsburger Allgemeine* (German daily newspaper), *Handelsblatt* (German business newspaper), *Reutlinger General-Anzeiger* (German daily newspaper), *Todo Noticias* (Argentina), *Montreal Gazette*

Quoted in (select outlets): *ABA Journal*, *Bloomberg News*, *Bloomberg Law*, *Buzzfeed*, *Chicago Tribune*, *Chronicle of Higher Education*, *Forbes.com*, *Fusion*, *Genome Magazine*, *GenomeWeb*, *Huffington Post*, *International Business Times*, *Mashable*, *MedCity News*, *Medical Ethics Advisor*, *MIT Technology Review*, *Motherboard*, *Nature News & Comment*, *Reporting on Health*, *Report on Research Compliance*, *STAT*, *The Timmerman Report*, *Torque*, *University World News*, *U.S. News & World Report*, *VentureBeat*, *Wall Street Journal*, *Wired*

Appearances on (select outlets): American Public Media’s *Marketplace Tech*, BBC Radio 4’s *The Digital Human*, *Genome Magazine* podcast, *Oral Argument* podcast, Public Radio International’s *Innovation Hub*, Public Radio International’s *To the Point*, *STAT*’s *Signal* podcast, *Tech Tonics* podcast, *This Week in Health Law* podcast, *The Tommy Schnurmacher Show* (Montreal radio), *Viewpoints*

(Montreal radio), WNEP (Scranton/Wilkes-Barre ABC affiliate), WNYT Nightly News (Albany NBC affiliate)

## **BLOGGING**

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Regular contributor, *Forbes*, 2015–2016

Regular contributor, *The Faculty Lounge* (legal academic group blog), 2013-2016; guest blogger, 2012-13

Regular contributor, *Bill of Health* (Harvard Law School-hosted group blog covering health law policy, biotechnology, and bioethics), 2012-2016

Organizer and contributor, “Online Symposium on the Law, Ethics & Science of Re-identification Demonstrations,” *Bill of Health*, May 2013 (cited by White House report, *Big Data: Seizing Opportunities, Preserving Values*, May 2014).

Organizer and contributor, “Online Symposium on the Munoz and McMath Cases,” *The Bioethics Program Blog*, Jan.–Feb. 2014.