

Joshua D. Greene

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Appointments

Professor, Department of Psychology, Harvard University. 2014-

John and Ruth Hazel Associate Professor of the Social Sciences, Department of Psychology, Harvard University. 2011-2014

Assistant Professor, Department of Psychology, Harvard University. 2006-2011

Center for Brain Science Faculty, Harvard University. 2006-

Education and training

Postdoctoral fellow, Princeton University (2002-2006). Neuroscience of Cognitive Control Laboratory (Jonathan Cohen, PI)

Ph.D. in Philosophy, Princeton University, June 2002. Dissertation on the foundations of ethics advised by David Lewis and Gilbert Harman

A.B. in Philosophy, Harvard University, March 1997

Research interests

Psychology and cognitive neuroscience of moral decision-making

Intuition and reasoning in moral judgment
Conflict and cooperation across lines of division
Behavioral science for social Impact

Infrastructure of complex thought

Neural mechanisms of compositional cognition ("The Language of Thought")

Artificial neural architectures for compositional cognition

Moral/social philosophy

Ethical implications of scientific self-knowledge

Social challenges/opportunities of advancing artificial intelligence

Advising and teaching

* indicates current trainee

Graduate students (primary advisor): Regan Bernhard, Donal Cahill, Alek Chakroff, Steven Frankland, Joseph Paxton, Dillon Plunkett, *Evan DeFelippis, James Bursley, *Yichen Li, *Koen Schoenmakers

Graduate students (secondary advisor, committee member, and/or collaborator): Stefano Anzellotti, Edmond Awad (MIT), Monica Burns, Bethany Burum, Juan-Manuel Contreras, Gus Cooney, Fiery Cushman, Jeffrey Ebert, Kurt Gray, Charles Houston, Anna Jenkins, Karim Kassam, Katrina Koslov, Matthew Killingsworth, David Levari, Anna Leshinskaya, Justin Martin, Shilpa Mody, Neeru Paharia, David Rand, Amitai Shenhav, Lily Tsoi (BC), Leo Ungar, Liane Young, Joshua Cetron, Thomas Pouncy, Seda Akbiykik, Karen Huang, Jason Nemirow, Silvana D'Ottone, Xavier Roberts-Gaal.

Postdoctoral trainees: Nobuhito Abe, Regan Bernhard, Elinor Amit, Fiery Cushman, Steven Frankland, David Rand, Christine Ma-Kellams, Hans Marien, Beau Sievers, Jacob Rode, *Lucius Caviola

Undergraduate thesis students: Jocelyn Blier (with Regan Bernhard and David Rand), Cole Chokran (with Francesca Gino), Jay Costa (with Fiery Cushman), Kate D'Orazio, Daniel Grafstein (with Donal Chahill), Ryan Halprin (with Nobuhito Abe), Lirui Li, Anne McKenna (with Elinor Amit), Jay Musen, †Katie Ransohoff, †Vaida Rimeikytė (with Anna Jenkins), Theresa Tharakan (with Alek Chakroff), †Sophie Wharton, Rocksheng Zhong (with Fiery Cushman), †Xin Xiang (with Alek Chakroff), Eleanor Lieberman (with Evan DeFilippis), Ifeomoa Okoli (with Asma Ghani), Nathaniel Liberman (with Andrei Barbu)

†Thomas T. Hoopes Prize Winner

Courses:

Evolving Morality: From Primordial Soup to Superintelligent Machines (Psy 1002, Lecture):
Spring 2016-present

Free Will, Responsibility, and Law (Psy 1750, Seminar): Fall 2007-present
Social Psychology Graduate Proseminar (Psy 2500): Fall 2017
Social Neuroscience (Psy 1506, Lecture): Spring 2007
Moral Cognition (Psy 2552, Seminar): Spring 2007
Moral Cognition (Psy 2554r, Research Seminar): All terms Fall 2007-present

Awards, honors, fellowships

Voted a "Favorite Professor" by Harvard College Classes 2009-2011, 2014, 2016, 2019-2023

2021-present, Schmidt Futures Innovation Fellow

2021, elected member of the Society for Progress, INSEAD, Fontainebleau, France.

2021, Best New Ideas in Money, *MarketWatch* (with Lucius Caviola)

2021, Reimagine Charitable Giving Prize Winner (with Lucius Caviola), Open IDEO/Bill and Melinda Gates Foundation.

2019 elected Fellow of the Society for Experimental Psychologists

2018 elected Fellow of the Association for Psychological Science

2018 SINE Prize, Italian Society for Neuroethics and Philosophy of Neuroscience

2017 Thomas A. Wasow Visiting Scholar in Symbolic Systems, Stanford University

2016 Blue Sky Ideas award from Association for the Advancement of Artificial Intelligence for co-authored paper: Embedding Ethical Principles in Collective Decision Support Systems

2013 Roslyn Abramson Award for excellence in undergraduate teaching

2012 Stanton Prize, awarded by the Society for Philosophy and Psychology

Speaker, Harvard Thinks Big 2 (based on student nominations), Mar. 7, 2011

Ruth L. Kirschstein National Research Service Award (2003-2006), in support of postdoctoral research at Princeton University, NIH MH067410

Fellow, Summer Institute in Cognitive Neuroscience, meeting for third ed. of *The Cognitive Neurosciences*, Lake Tahoe, CA. June-July, 2003

Fellow, Summer Institute in Cognitive Neuroscience, Dartmouth College, Hanover New Hampshire, June-July, 2001

Jacob K. Javits Memorial Fellow (1997-2001), in support of graduate research at Princeton University.

Book

Greene, J. (2013) *Moral Tribes: Emotion, Reason, and the Gap between Us and Them*. New York: Penguin Press. (translations: Arabic, Brazilian Portuguese, Chinese, complex Chinese, French, Korean, Japanese, Swedish, Thai)

Journal articles (including C.S. conf. proceedings)

* indicates trainee

*Bernhard, R. M., *Frankland, S. M., *Plunkett, D., *Sievers, B., Greene, J. D. (in press). Evidence for Spinozan “unbelieving” in the right inferior prefrontal cortex. *Journal of Cognitive Neuroscience*.

Greene, J.D. (in press) Dual-Process Moral Judgment Beyond Fast and Slow. *Behavioral and Brain Sciences*. (Commentary)

Greene, J.D. (in press) The dual-process theory of moral judgment does not deny that people can make compromise judgments. *Proceedings of the National Academy of Sciences, USA*. (letter)

*Caviola, L., & Greene, J. D. (2023). Boosting the impact of charitable giving with donation bundling and micromatching. *Science Advances*, 9(3), eade7987.

Mahr, J. B., Greene, J. D., & Schacter, D. L. (2021). A long time ago in a galaxy far, far away: How temporal are episodic contents?. *Consciousness and cognition*, 96, 103224.

*Caviola, L., Schubert, S., & Greene, J. D. (2021). The Psychology of (In) Effective Altruism. *Trends in Cognitive Sciences*. Vol 25(7), 596-607.

*Huang, K., *Bernhard, R. M., Barak-Corren, N., Bazerman, M. H., & Greene, J. D. (2021). Veil-of-ignorance reasoning mitigates self-serving bias in resource allocation during the COVID-19 crisis. *Judgment & Decision Making*, 16(1).

Lindauer, M., Mayorga, M., Greene, J.D., Slovic, P., Västfjäll, D., & Singer, P. (2020). Comparing the effect of rational and emotional appeals on donation behavior. *Judgment and Decision Making*. Vol. 15(3), 413-420.

*Frankland, S.M., Greene, J.D. (2020) Concepts and compositionality: In search of the brain's language of thought. *Annual Review of Psychology*. Vol. 71, 273-303.

*Frankland, S.M., Greene, J.D. (2020) Two ways to build a thought: Distinct forms of compositional semantic representation across brain regions. *Cerebral Cortex*. 30(6), 3838-3855.

*Huang, K., Greene, J.D., Bazerman, M. (2019) Veil-of-ignorance reasoning favors the greater good. *Proceedings of the National Academy of Sciences*. 116(48), 23989-23995.

*Plunkett, D., Greene, J.D. (2019) Overlooked evidence and a misunderstanding of what trolley dilemmas do best: Commentary on Bostyn, Sevenhant, & Roets (2018). *Psychological Science*. 30(9), 1389-91.

Cases, I., Rosenbaum, C., Riemer, M., Geiger, A., Klinger, T., Tamkin, A., Li, O., Agarwal, S., Greene, J.D., Jurafsky, D., Potts, C., Karttunen, L., (2019) Recursive routing networks: Learning to compose modules for language understanding. *Proceedings of North American Association for Computational Linguistics-HTL*, 3631-3648

Rosenbaum, C., Cases, I., Riemer, M., Geiger, A., Karttunen, L., Greene, J. D., ... & Potts, C. (2019). Dispatched Routing Networks. Stanford AI Lab, NLP Group Tech Report 2019-1.

*Frankland, S.M. & Greene, J.D. (2019). A representational asymmetry for composition in human left-middle temporal gyrus. *Advances in Neural Information Processing Systems*. Workshop on Context and Compositionality.

*Abe, N., Greene, J. D., & Kiehl, K. A. (2018). Reduced engagement of the anterior cingulate cortex in the dishonest decision-making of incarcerated psychopaths. *Social cognitive and affective neuroscience*, 13(8), 797-807.

Conway, P., Goldstein-Greenwood, J., Polacek, D., & Greene, J.D. (2018). Sacrificial utilitarian judgments do reflect concern for the greater good: Clarification via process dissociation and the judgments of philosophers. *Cognition*, 179, 241-265.

Greene, J. D. (2017). The rat-a-gorical imperative: Moral intuition and the limits of affective learning. *Cognition*. 167, 66-77.

*Shenhav, A., Rand, D. G., Greene, J.D. (2017). The relationship between intertemporal choice and following the path of least resistance across choices, preferences, and beliefs. *Judgment and Decision making*, 12(1), 1.

Greene, J. D. (2016). Our driverless dilemma. *Science*, 352(6293), 1514-1515.

Greene, J., Rossi, F., Tasioulas, J., Venable, K. B., & Williams, B. C. (2016, February). Embedding Ethical Principles in Collective Decision Support Systems. In *AAAI* (pp. 4147-4151).

*Bernhard, R. M., Chaponis, J., Siburian, R., Gallagher, P., Ransohoff, K., Wikler, D., & Greene, J. D. (2016). Variation in the oxytocin receptor gene (OXTR) is associated with differences in moral judgment. *Social cognitive and affective neuroscience*, 11(12), 1872-1881.

*Frankland, S.M., Greene, J.D. (2015). An architecture for encoding sentence meaning in left mid-superior temporal cortex. *Proceedings of the National Academy of Sciences USA*. 112(37), 11732-11737.

Greene, J.D. (2015). The rise of moral cognition. *Cognition*. 135, 39-42.

Greene, J.D. (2014). From fear recognition to kidney donation. *Proceedings of the National Academy of Sciences*. 111(42), 14966-14967. (Commentary on Marsh et al., 2014)

*Abe, N., Greene, J.D. (2014). Response to anticipated reward in the nucleus accumbens predicts behavior in an independent test of honesty. *Journal of Neuroscience*. 34(32), 10564-10572.

Greene, J.D. (2014). Beyond point-and-shoot morality: Why cognitive (neuro)science matters for ethics. *Ethics*, 124(4), 695-726.

Reprinted in:

Liao, S. M. (2016). *Moral brains: The neuroscience of morality*. Oxford University Press.

Stopler, G., Ed. (2015). *Law & Ethics of Human Rights*, 9(2).

Shariff, A.F., Greene, J.D., Karremans, J.C., Luguri, J., Clark, C., Baumeister, Schooler, J.W., Baumeister, R.F., and Vohs, K.D. (2014 ePub). Free will and punishment: A mechanistic view of human nature reduces retribution. *Psychological Science*.

*†Rand, D.G., †Peysakhovich, A., Kraft-Todd, G.T., Newman, G.E., Wurzbacher, O.W., Nowak, M.A., Greene, J.D. (2014). Social heuristics shape intuitive cooperation. *Nature Communications*. Doi:10.1038/ncomms4677 (†equal contributions)

- *Shenhav, A., Greene, J.D. (2014). Integrative moral judgment: Dissociating the roles of the amygdala and ventromedial prefrontal cortex. *Journal of Neuroscience*. 34(13), 4741-4749.
- *Paxton, J.M. *Bruni, T., Greene, J.D. (2013, epub). Are 'counter-intuitive' deontological judgments really counter-intuitive?: An empirical reply to Kahane et al. (2012). *Social, Cognitive, and Affective Neuroscience*. doi:10.1093/scan/nst102
- *Rand, D.G., †Greene, J.D., †Nowak, M.A., (2012). Spontaneous giving and calculated greed. *Nature*, 489, 427-430. (†equal contributions)
- Reply to BCA: Rand, D.G., Greene, J.D., & Nowak, M.A. (2013). Rand et al. reply. *Nature*, 498(7452), E2-E3.
- *Amit, E., Greene, J.D. (2012). You see, the ends don't justify the means: Visual imagery and moral judgment. *Psychological Science*, 23(8), 861-868.
- Baron, J., Ritov, I., and Greene, J.D. (2011 ePub, 2013). The duty to support nationalistic policies. *Journal of Behavioral Decision Making*, 26(2), 128-138.
- *Cushman, F.A., *Murray, D., *Gordon-McKeon, S., *Wharton, S., Greene, J.D. (2011 ePub, 2012). Judgment before principle: Engagement of the frontoparietal control network in condemning harms of omission. *Social, Cognitive, and Affective Neuroscience*, 7(8) 888-895.
- *Cushman, F.A. and Greene, J.D. (2012). Finding faults: How moral dilemmas illuminate cognitive structure. *Social Neuroscience* 7(3-4), 269-279.
- †*Shenhav, A.S., †*Rand, D.G., Greene, J.D. (2011 ePub, 2012). Divine intuition: Cognitive style influences belief in God. *Journal of Experimental Psychology: General*, 141(3) 423-428. (†equal contributions)
- *Paxton, J.M., Ungar, L., Greene, J.D., (2011 ePub, 2012). Reflection and reasoning in moral judgment. *Cognitive Science*, 36(1) 163-177.
- Shen, F.X., Hoffman, M.B., Jones, O.D., Greene, J.D., Marois, R. (2011). Sorting guilty minds. *New York University Law Review*, 86(5), 1306-1360.
- Greene, J.D. (2011). Morality and emotion: A tasting menu. *Emotion Review*. (Editor's introduction to special issue) 3(3) 1-3.

- *Shenhav, A.S., Greene, J.D. (2010). Moral judgments recruit domain-general valuation mechanisms to integrate representations of probability and magnitude. *Neuron*, 67, 667-677.
- *Paxton, J.M., Greene, J.D., (2010). Moral reasoning: Hints and allegations. *Topics in Cognitive Science*, 2(3), 511-527.
- Bazerman, M.H. and Greene, J.D. (2010). In favor of clear thinking: Incorporating moral rules into wise cost-benefit analysis. *Perspectives on Psychological Science*, 5(2), 209-212.
- Greene, J.D., *Paxton, J.M. (2009). Patterns of neural activity associated with honest and dishonest moral decisions. *Proceedings of the National Academy of Sciences USA*, Vol. 106, No. 30, 12506-12511.
- *Paharia, N., *Kassam, K.S., Greene, J.D., Bazerman, M.H. (2009). Dirty work, clean hands: the moral psychology of indirect agency. *Organizational Behavior and Human Decision Processes*, 109, 134-141.
- Greene, J.D., *Cushman, F.A., *Stewart, L.E., Lowenberg, K., Nystrom, L.E., and Cohen, J.D. (2009). Pushing moral buttons: The interaction between personal force and intention in moral judgment. *Cognition*, Vol. 111 (3), 364-371.
- Greene, J.D. (2009) Dual-process morality and the personal/impersonal distinction: A reply to McGuire, Langdon, Coltheart, and Mackenzie. *Journal of Experimental Social Psychology*, Vol. 45 (3), 581-584.
- Greene, J.D., Morelli, S.A., Lowenberg, K., Nystrom, L.E., Cohen, J.D. (2008). Cognitive load selectively interferes with utilitarian moral judgment. *Cognition*, Vol. 107, 1144-1154.
- Greene, J.D. (2007). Why are VMPFC patients more utilitarian?: A dual-process theory of moral judgment explains. *Trends in Cognitive Sciences*, Vol. 11, No. 8, 322-323.
- Greene, J.D., Nystrom, L.E., Engell, A.D., Darley, J.M., Cohen, J.D. (2004). The neural bases of cognitive conflict and control in moral judgment. *Neuron*, Vol. 44, 389-400.
- Greene, J.D., Cohen J. D. (2004). For the law, neuroscience changes nothing and everything. *Philosophical Transactions of the Royal Society of London B (Special Issue on Law and the Brain)*, 359. 1775-1785.

Reprinted in:

Zeki, S., Goodenough, O., Eds. (2006). *Law and the Brain*. Oxford University Press.

Farah, M.J. Ed. (2010). *Neuroethics*. MIT Press.

Tonry, M., Ed. (2010). *Why Punish? How Much?: A Reader on Punishment*. Oxford University Press.

Illes, J., Sahakian, B.J., Eds. (2011). *Oxford Handbook of Neuroethics*. Oxford University Press.

Jones, O.D., Schall, J.D., Shen, F.X. eds. (2014). *Law and Neuroscience*. Wolters Kluwer Law & Business.

Greene, J.D. (2003). From neural "is" to moral "ought": what are the moral implications of neuroscientific moral psychology? *Nature Reviews Neuroscience*, Vol. 4, 847-850.

Reprinted in Allhoff, F., Mallon, R., Nichols, S. Eds. (2012). *Philosophy: Traditional and Experimental Readings*, Oxford University Press.

Greene, J. and Haidt, J. (2002). How (and where) does moral judgment work? *Trends in Cognitive Sciences*, 6(12), 517-523.

Greene, J.D., Sommerville, R.B., Nystrom, L.E., Darley, J.M., Cohen, J.D. (2001). An fMRI investigation of emotional engagement in moral judgment. *Science*, Vol. 293, Sept. 14, 2001, 2105-2108.

Reprinted in:

Cova, F., Dutant, J., Machery, E., Knobe, J., Nichols, S., Nahmias, E. (2012). *La Philosophie Experimentale*. Vuibert.

Greene, J.D., Baron, J. (2001). Intuitions about declining marginal utility. *Journal of Behavioral Decision Making*, 14, 243-255.

Baron, J., Greene, J.D. (1996). Determinants of insensitivity to quantity in valuation of public goods. *Journal of Experimental Psychology: Applied*, 2, 107-125.

Book chapters

*indicates trainee

Greene, J.D. (in press). Trolleyology: What It Is, Why It Matters, What it's Taught Us, and How

It's Been Misunderstood. In *The Trolley Problem*, Hallvard Lillehammer, ed. Cambridge University Press.

Greene, J.D., Huang, K., & Bazerman, M. (2022). Redirecting Rawlsian reasoning toward the greater good. In *The Oxford Handbook of Moral Psychology*, M. Vargas & J. Doris, eds., Oxford University Press.

Greene, J.D., Young, L. (2020). The cognitive neuroscience of moral judgment and decision-making. *The Cognitive Neurosciences, Volume 6* (Ed. M.S. Gazzaniga). MIT Press.

Greene, J.D. (2018). Can we understand moral thinking without understanding thinking?, in *Atlas of Moral Psychology*, K. Gray & J. Graham, Eds. Guilford Press.

Greene, J. D. (2016). Reply to Driver and Darwall. In *Moral Brains: The Neuroscience of Morality*, S.M. Liao, Ed.

Greene, J. (2016). Solving the trolley problem. In *A companion to experimental philosophy*, J. Systma & W. Buckwalter, Eds. (introduction to reprinted version of Greene et al., 2009, *Cognition*)

Greene, J.D. (2014). The cognitive neuroscience of moral judgment and decision-making, in *The Cognitive Neurosciences V*, M.S. Gazzaniga, Ed. MIT Press.

reprinted in:

Decety, J. and Wheatley, T. Eds. (forthcoming). *The Moral Brain: A Multidisciplinary Perspective*, MIT Press.

*Amit, E., *Gottlieb, S., Greene, J.D. (2014). Visual vs. verbal thinking and dual-process moral cognition, in *Dual-process Theories of the Social Mind*, J. Sherman, B. Gawronski, Y. Trope, Eds. Guilford Press.

*Cushman, F.A., Greene, J.D. (2012). The philosopher in the theater, in *The Social Psychology of Morality: Exploring the Causes of Good and Evil*, M. Mikulincer, P.R. Shaver, Eds. APA Press.

Greene, J. D. (2011). Social neuroscience and the soul's last stand, in *Social Neuroscience: Toward Understanding the Underpinnings of the Social Mind*, A. Todorov, S. Fiske, and D. Prentice, Eds. Oxford University Press.

*Cushman, F., Young, L., Greene, J.D. (2010). Our multi-system moral psychology: Towards a consensus view, in *The Oxford Handbook of Moral Psychology*, J. Doris, G. Harman, S. Nichols, J. Prinz, W. Sinnott-Armstrong, S. Stich, Eds. Oxford University Press.

Greene, J.D. (2009). The cognitive neuroscience of moral judgment, in *The Cognitive Neurosciences IV*, M.S. Gazzaniga, Ed. MIT Press.

Greene, J. D. (2007). The secret joke of Kant's soul, in *Moral Psychology, Vol. 3: The Neuroscience of Morality: Emotion, Disease, and Development*, W. Sinnott-Armstrong, Ed., MIT Press.

Reprinted in:

Nadelhoffer, T., Nahmias, E., Nichols S., Eds. (2010). *Moral Psychology: Historical and Contemporary Readings*. Wiley-Blackwell.

Sher, G. Ed. (2012). *Ethics: Essential readings in moral theory*. Routledge.

McClure, S.M., Botvinick, M.M., Yeung, N., Greene, J.D., Cohen, J.D. (2007). Conflict monitoring in cognition-emotion competition, in *Handbook of Emotion Regulation*, J. Gross and R. Thompson, Eds., Guilford.

Greene, J. (2005). Emotion and cognition in moral judgment: evidence from neuroimaging, in *Neurobiology of Human Values*, J.P. Changeux, A.R. Damasio, W. Singer, and Y. Christen, Eds., Springer-Verlag.

Greene, J. (2005). Cognitive neuroscience and the structure of the moral mind, in *The Innate Mind: Structure and Contents*, S. Laurence, P. Carruthers, and S. Stich. Eds., Oxford University Press.

Articles for general audience

Caviola, L., & Greene, J. (2020). How to be an effective altruist when giving to charities. Op-Ed, *LA Times*, Dec, 17.

Greene, J. (2012). Supervenience!, in *This Will Make You Smarter: New Scientific Concepts to Improve Your Thinking*, J. Brockman, Ed. Harper Perennial.

Greene, J.D. (2011). Does moral action depend on reasoning?: Less than it should, in JTF Big Questions Essay Series. <http://www.templeton.org/reason/Essays/greene.pdf>.

Greene, J. (2011). The dumb butler, in *Is the Internet Changing the Way You Think?: The Net's Impact on Our Minds and Future*, J. Brockman, Ed. Harper Perennial.

Greene, J.D. (2009). Fruit flies of the moral mind, in *What's Next: Dispatches from the Future of Science*, M. Brockman, Ed., Vintage.

Dissertation

The Terrible, Horrible, No Good, Very Bad Truth About Morality and What to Do About It.
Dept. of Philosophy, Princeton University, Princeton, NJ. 2002. Advised by David Lewis and Gilbert Harman.

Grant support

PI, award from Open Philanthropy in support of the <i>RedBrain BlueBrain</i> project using intergroup cooperation to mitigate affective polarization (pending).	\$100,000
PI, Gift from <i>Schmidt Futures</i> in support of the <i>RedBrain BlueBrain</i> project using intergroup cooperation to mitigate affective polarization, 2022.	\$230,000
PI, Engineering Peace. Forethought Foundation, 2022-2024.	\$298,656
PI, Gift from anonymous donor in support of Giving Multiplier, 2021-	\$100,000
PI, Gift from <i>Schmidt Futures</i> in support of the <i>RedBrain BlueBrain</i> project using intergroup cooperation to mitigate affective polarization, 2021.	\$180,000
PI, Memory and Compositional Cognition. Mind, Brain, Behavior Postdoctoral Fellowship Award (Harvard U.) (Beau Sievers, fellow; with Leslie Valiant). 2019-2021.	\$142,000
PI, Epistemic Cooperation: Reducing Political Polarization Through A Collaborative Quiz Game Intervention. Beyond Conflict. 2018-2019.	\$45,841
PI, The impact of solitary and interactive moral reasoning on moral judgment and behavior. Foundation for Quality Education (Poland). 2017-18.	\$14,000
PI (Harvard), Safety Constraints and Ethical Principles in Collective Decision Making Systems. Future of Life Institute. 2015-2018. (multi-site project)	\$28,494
PI (subcontract), Kallmann's Syndrome: Congenital anosmia, disgust processing and morality. US-Israel Bi-National Science Foundation (2013028).	\$9,936
PI, The Nuts and Bolts of Complex Thought: Neural Mechanisms of Truth-Functional Operation.	

Star Family Challenge for Scientific Research (Harvard U.). 2015-2016.	\$109,260
PI, The Representation of Structured Thoughts in Temporal Cortex: A Physiological Investigation Using Intracranial Recordings. Mind, Brain, Behavior Faculty Award (Harvard U.). 2014-2015.	\$50,000
PI, The Evolution of Cognitive Complexity. Foundational Questions in Evolutionary Biology, Harvard U. and J. Templeton Found. 2012-2014	\$159,742
PI, Neuroscience, Mechanism, and the Concepts of Free Will and Responsibility. MacArthur Found. Law and Neuroscience Project (07-89249-000-HCD). 2010-2011	\$5,750
Co-PI, The Neural Bases of Dishonesty in Psychopathy. MacArthur Foundation, Law and Neuroscience Project (07-89249-000-HCD). 2010-2011	\$90,000
Lead PI, Collaborative Research: Genetics of Moral Cognition. National Science Foundation (SES-0952129). 2009-2011. (*budget for Harvard FAS + MGH)	\$187,994*
PI, The Wisdom of Moral Principles. University of Chicago Arete Initiative, Defining Wisdom Project (FFS-LI-07-568). 2008-2010	\$50,000
Co-PI, Experimental Approaches to Trust, Emotions, Ethics and Morality in Negotiation. Harvard Program on Negotiation. 2008-2011	\$160,000
PI, Cognitive and Affective Neuroscience of Moral Judgment. National Science Foundation (SES-082197 8). 2008-2012	\$749,049
Co-PI, Moral Judgment in Psychopaths. MacArthur Foundation, Law and Neuroscience Project (07-89249-000-HCD). 2008-2011	\$121,900
PI, A Novel Measure of Subjective Well-Being. Clark Fund, Harvard University, Faculty of Arts and Sciences. 2008	\$6000
PI, The Neural Bases of (Dis)Honest Behavior. MacArthur Foundation, Law and Neuroscience Project (07-89249-000-HCD). 2007-2009	\$58,374
Co-PI, Emotion and Cognition in Moral Judgment. National Science Foundation (BCS-0351996). 2004-2006	\$100,000

Invited lectures and presentations

[2018-2023 to be updated sometime this decade!]

2017

Keynote, Global Empowerment Meeting, Harvard Center for International Development, April 18, 2017.

Sage Center lecture, UCSB, May 18, 2017.

Symbolic Systems, Symposium on ethics of self-driving cars, May 19, 2017.

Symbolic Systems Forum, Stanford University, May 22, 2017.

Philosophy Talk Live, Driverless Cars at the Moral Crossroads, Stanford University, May 24, 2017.

Summer Seminars in Neuroscience and Philosophy (SSNAP), Conference Finale, June 3, 2017.

Aspen Ideas Festival, June 28, 2017.

Keynote, Vanderbilt Brain Institute Annual Neuroscience Retreat, Sept. 26, 2017.

Ethics of Value Alignment, Future of Life Institute, Long Beach, CA, Dec. 10, 2017.

Penn Effective Altruism, University of Pennsylvania, Dec. 7, 2017.

2016

Effective Altruism Group, Tufts University, Feb 11, 2016.

Andrew J. Bernstein '68 Memorial Lecture, Bard College, Mar 10, 2016.

Public Lecture, James Madison University, April 7, 2016.

Artificial Intelligence and Governance meeting, Media Lab, MIT, April 28, 2016.

Brain and Social Mind - The Origin of Empathy and Morality, Yokohama, Japan, July 23, 2016.

Keynote, International Congress of Psychology, Yokohama, Japan, July 25, 2016.

Contemporary Authors in Bioethics series, Harvard Medical School, Sept. 29, 2016.

DeCamp Bioethics lecture, Princeton University, Oct 5, 2016.

Keynote, Morality in the Age of Neuroscience conference, Kent State University, Nov. 17, 2016.

Education For Good, Boston, MA, Nov 19, 2016.

Morning Prayer, Memorial Church, Harvard University, Nov 2., 2016.

2015

Beneficial Artificial Intelligence conference, San Juan, Puerto Rico, Jan 5, 2015. MIT, Future of Life Institute.

Yale Humanist Community, Feb 5, 2015.

Initiative on the Digital Economy seminar, MIT, Feb 17, 2015.

Debate with Elizabeth Harman on science and moral philosophy, NYU Dept. of Philosophy, March 27, 2015.

Inaugural Lecture, Weinberg Institute for Cognitive Science, University of Michigan, April 10, 2015.

Anchor Talk, Social and Affective Neuroscience Society, Annual Meeting, Boston, MA. April 24, 2015.

Workshop on Moral Learning, University of Michigan, May 15, 2015.

Neuroscience and Social Decision Making seminar, Princeton University, May 20, 2015.
Effective Altruism Global, Google, Mountain View, CA, Aug 1, 2015.

Moral Psychology Workshop, University of Cambridge, UK, October 9, 2015.

Department of Experimental Psychology, University of Oxford, UK, October 12, 2015.

Moral Sciences Club, University of Cambridge, UK, October 13, 2015.

Sylvius Lecture, Leiden Institute for Brain and Cognition, University of Leiden, NL, Nov. 5, 2015.

Institutions for Moral Behavior conference, University of Utrecht, Nov. 12, 2015.

Zurich Minds, Colloquium and Symposium, Zurich, CH, Nov. 10-11.

Colloquium, Department of Social and Organizational Psychology, University of Utrecht, NL, Nov. 19, 2015.

Effective Altruism Group, University of Amsterdam, NL, Dec. 1, 2015.

2014

Boston Book Festival, October 25, 2014

Behavior, Evolution and Culture series, UCLA, October 8, 2014

Kentucky Ideas Festival, October 2, 2014

Google DeepMind, London, UK, July 16, 2014

Presidential Commission for the Study of Bioethical Issues, Emory University, June 10, 2014

Stanford Neuroscience Graduate Retreat, Pacific Grove, CA, May 18, 2014

Center for Mind and Brain, UC Davis, May 16, 2014

Author series, Google, Mountain View, CA, May 15, 2014

Cross Cultural Perspectives on Moral Psych, Korea University, Seoul, March 21, 2014

Public Lecture, College of Holy Cross, Feb 27, 2014

Social Cognition Preconference, Soc. Personality and Social Psych, Austin, TX, Feb 13, 2014

Darwin Day Speaker, Salem State University, Feb 10, 2014

Social Brain Sciences Symposium, Boston College, Feb 8, 2014

Radius (Ethics and Technology), MIT, Feb 4, 2014

2013

McLaughlin Lecture, Merrimack College, Oct. 21, 2013

Baumann Foundation symposium, Being Human, San Francisco, CA, Sept. 28, 2013.

SESP symposium on "Is", "Ought", and Moral Psychology, Berkeley, CA, Sept. 27, 2013.

MBB Junior Symposium on New Methods in Brain Science, Harvard U., Sept. 22, 2013.

Radcliffe symposium on Neuroscience and Public Policy, Harvard U., Sept. 21, 2013.

Brains on Trial, law and neuroscience panel, MIT McGovern Inst., Sept. 17, 2013.

Edge symposium on Future of Social Sciences, Eastover, CT, Sept. 7, 2013.

Association for Psychological Science, Invited Lecture, Washington D.C., May 25, 2013.

Mahindra Humanities Center/PON, Symposium on Confronting Evil, Harvard U., Apr. 20, 2013.

AAAS, Symposium on Moral Psychology and Neuroscience, Boston, MA, Feb. 17, 2013.

SPSP, Symposium on Mental Simulation, New Orleans, LA, Jan. 18, 2013.

2012

Center for the Neural Basis of Cognition, U. of Pittsburgh/CMU, Nov. 15, 2012.

SESP, Symposium on Dynamics of Moral Evaluation, Austin TX, Oct. 27, 2012.

Global Empowerment Meeting, CID, Harvard Kennedy School, Oct. 25, 2012.

Plenary Address, International Society for Utilitarian Studies, NYU, Aug. 10, 2012.

Ctr. for Advanced Study in the Behavioral Sciences Summit, Palo Alto, CA, June 29, 2012.

Stanton Prize Lecture, Society for Philosophy & Psychology, Boulder, CO, June 21, 2012.

Computational & Neural Systems Seminar, Caltech, May 21, 2012.

Brain-Mind Medicine Series, Brigham & Women's Hospital, May 7, 2012.

Cognition and Emotion in Ethics, U. of Toronto Rotman School of Mgmt., May 5, 2012.

A Battle of Wills (debate with D. Dennett and S. Pinker), Harvard University, Apr. 27, 2012.

Symposium on the Science of Learning, Harvard Medical School, Apr. 6, 2012.

The Moral Brain, NYU, Mar. 30, 2012.

2011

Kline Lecture on Neuroscience, Wellesley College, Nov. 29, 2011.

Social Psychology lunch series, Dept. of Psychology, Yale University, Nov. 28, 2011.

Friday night lecture, St. John's College, Nov. 11, 2011.

Cognitive science lecture series, University of Maryland, Nov. 3, 2011.

Bioethics lecture series, University of Geneva, June 15, 2011.

Invited Address, Assoc. for Psych. Science Annual Meeting, Washington, DC, May 28, 2011.

Moral Action conference, Caltech, May 19, 2011.

Making People Moral conference, University of Utah, May 13, 2011.

Distinguished Speaker Series, Positive Psychology, U. of Pennsylvania, April 21, 2011.

Departmental Colloquium, Psychology, Salem State University, April 15, 2011.

Experimental Ethics Workshop, Philosophy, Law Center, Georgetown University, April 8, 2011.

Departmental Colloquium, Philosophy, University of Texas at Arlington, Mar. 25, 2011.

Grand Rounds, Department of Psychiatry at Boston Medical Center, Mar. 3, 2011.

Graduate Student Invitation Lecture, Rockefeller University, Feb. 18, 2011.

2010

Invited Lecture, Eastern American Philosophical Assoc. Meeting, Boston, MA, Dec. 30, 2010.

DeCamp Lecture, Princeton University Center for Human Values, Dec. 8, 2010.

Origins of Morality Workshop, Arizona State University, Nov. 5-6, 2010.

Cognitive, Linguistic and Psychological Sciences seminar, Brown University, Sept. 24, 2010.

Neuroscience and Social Decision-Making series, Princeton University, Sept. 22, 2010.

Culture and the Mind, University of Sheffield, U.K., Sept. 17, 2010.

The New Science of Morality, *Edge* seminar, July 21, 2010.

Society for Philosophy and Psychology annual meeting, Portland OR, June 10, 2010.

Caltech, Division of Humanities and Social Science, May 19, 2010.

Moral Biology conference, Harvard Law School, April 15, 2010.

Psychology Department Colloquium, University of Western Ontario, March 26, 2010

Biological Foundations of Morality conference, Holy Cross, March 19, 2010

SPSP, Symposium on Free Will, Las Vegas, NV, January 30, 2010.

SPSP, Morality Pre-conference, Las Vegas, NV, January 28, 2010.

973rd Meeting of the Boston Society for Neurology and Psychiatry, BIDMC, January 21, 2010.

Santa Fe Institute, Jan 7, 2010.

2009

Boston University, Clinical Psychology Colloquium, Dec. 2, 2009.

Yale Law School, September 17, 2009.

NEH Institute on Experimental Philosophy, University of Utah, July 7, 2009.

Summer Institute in Cognitive Neuroscience, faculty lecture, UCSB. June 22, 2009.

Festschrift presentation in honor of John Darley, Princeton University, May 22, 2009.

Emory University neuroscience series, April 1, 2009.

Undergraduate Bioethics Conference, Harvard University, March 14, 2009.

2008

London School of Economics. November 21, 2008.

Functional Neuroimaging Lab, University College London, November 20, 2008.

Booth Graduate School of Business, University of Chicago, November 9, 2008.

NYU Stern School of Business, November 6, 2008.

Mellon lecture series, Bates College. October 17, 2008.

Social and Affective Neuroscience Society, Annual Meeting, Boston, MA, June 7, 2008.

Conference on Law and Emotion. University of Chicago Law School, May 10, 2008.

Carnegie Mellon University, Behavioral Decision Research Seminar, April 24, 2008.

Conference on NeuroLaw, Amherst College, March 1, 2008.

Office of Naval Research conference, MIT, March 2, 2008.

Law and Behavioral Biology Series, Vanderbilt University Law School, January 31, 2008.

2007

Cognitive Lunch series, Yale University, November 13, 2007.

Gruter Institute, Judicial Teaching Conference on Law and Neuroscience, Oct 19-20, 2007.

Multi-Modal Short Course on neuroimaging, MGH, Martinos Center, June 28, 2007.

Law and Philosophy Seminar, Georgetown University Law Center, March 12, 2007.

Clinical Bioethics Seminar Series, NIH, February 28, 2007.

2006

Human Development Colloquium Series, Boston University, Nov 29, 2006.

Symposium on Psychology, Morality, and Other Minds, Dept. of Philosophy, MIT, Nov 17, 2006.

Social Psychology Colloquium Series, UMass, Amherst, Nov 3, 2006.

Decamp Lecture, Center for Human Values, Princeton University, Oct 4, 2006.

Judgment and Decision-Making series, Cornell University, Sept 26, 2006.

Departmental colloquium, Dept. of Philosophy, University of Arizona, Sept, 22, 2006.

Boston College, Affective Science series, Sept, 18, 2006.

AAAS/Dana Foundation seminar for federal judges, Washington D.C., June 29, 2006.

Technology and Ethics Working Research Group, Yale University, March 1, 2006.

Bioethics Lecture Series, University of Pennsylvania, February 23, 2006.

Neuroscience and Moral Psychology Colloquium, University of Utah, February 10, 2006.

Emotion and Morality Pre-conference, SPSP Annual Meeting, January 25, 2006.

2005

Mini-Conference on The Doctrine of Double Effect, Princeton University, December 8, 2005.

Symposium on Moral and Justice Judgments, SESP Annual Meeting, October 8, 2005.

Decision Processes Brown Bag, University of Pennsylvania, Philadelphia, PA, June 13, 2005.

Symposium on Law and the Brain, American Enterprise Institute, June 1, 2005.

Social Cognitive and Affective Neuroscience Conference, Princeton University, May 16, 2005.

Public Lecture, Year of World Citizenship, Beloit College, February 18, 2005.

Department of Psychology, University of Toronto, February 8, 2005.

Social Ethics and Normative Theory reading group, Stanford University, February 4, 2005.

Cognitive Lunch, Department of Psychology, Stanford University, February 3, 2005.

Department of Psychology, University of California at Berkeley, February 2, 2005.

Foundation IPSEN, Neurobiology of Human Values, Paris, France, January 24, 2005.

2004

Seminar in Behavioral Neuroscience, Yale University, December 7, 2004.

Social Psychology Research Workshop, Harvard University, November 30, 2004.

Rutgers University Cognitive Science Seminar Series, October 28, 2004.

Departmental Colloquium, Department of Psychology, Rutgers Newark, October 15, 2005.

NYU, Department of Psychology, Cognition and Perception series, September 23, 2004.

Society for the Advancement of Behavioral Economics, Philadelphia, PA, July 15-18, 2004.

International Society for Research on Emotion annual meeting, New York City, July 8, 2004.

Psychology and Biology of Morality, Dartmouth College, May 22, 2004.

UCLA Global Fellows, May 6, 2004.

Brain Mapping Center, UCLA, May 5, 2004.

Division of Social Sciences and Humanities, Caltech, Pasadena, CA, May 3, 2004.

Cognitive Neuroscience Society, Pre-conference on Social Brain Science, April 17, 2004.

Plenary presentation, Science of Consciousness VI, Tucson, Arizona, April 9, 2004.

Emotions, Evolution, and Ethics Meeting. Duke University, UNC Chapel Hill, April 2, 2004.

Hanse Institute for Advanced Studies, Delmenhorst, Germany, March 26, 2004.

The Emotional Basis of Cooperation and Punishment, Santa Fe Institute, February 14, 2004.

2003

AHRB project on Innateness and the Structure of the Mind, Rutgers University, Oct 18, 2003.

Evolutionary Studies Seminar Series, SUNY Binghamton, October 10, 2003.

Social and Affective Neuroscience Series, Dept. of Psychology, Harvard U., Oct 3, 2003.

Santa Fe Institute Founding Workshop on the Behavioral Sciences, August 15, 2003.

Plenary presentation, Intelligent Processing of Materials, Sendai, Japan, May 20, 2003.

University of Pennsylvania Center for Cognitive Neuroscience, May 5, 2003.

DeCamp Bioethics Series, Center for Human Values, Princeton University, February 13, 2002.

2000-2002

Commentary on Steven Pinker, Bioethics conference, University of PA, February 7, 2002.

University of Pennsylvania Department of Psychology, November 7, 2001.

University of Iowa, Department of Neurology, October 18, 2001.

University of Pennsylvania, Center for Cognitive Neuroscience, February 5, 2001.

State of the World Forum, New York City, September 2000.

Professional activities

Schmidt Futures, Innovation Fellow (2021-)

The Society for Progress, INSEAD, (2021-)

The Science and Ethics for Happiness and Well-being Initiative, Center for Sustainable Development, Columbia University, member (2019-)

Johns Hopkins University, Dept of Psychological and Brain Sciences, External Advisory Board (2019-)

Scientific advisory board and steering committee member (2016-present), Beyond Conflict Innovation Lab.

Editorial Board, *Cognition*, 2017-present

Scientific faculty (2013-present), Center for Law, Brain & Behavior, Massachusetts General Hospital.

Advisory board member (2012-2016), *The Year in Cognitive Neuroscience*, published annually by the New York Academy of Science

National Science Foundation, Program on Decision, Risk and Management Sciences, advisor and conference organizer on future directions (2010-2011).

Guest editor (2010), special issue of *Emotion Review* on emotion and moral judgment.

Moral Psychology Research Group, Biannual Meeting host/organizer, Fall 2010.

Executive Committee Member (2010-present), Society for Philosophy and Psychology.

Founding Executive Committee Member (2010-present), Experimental Philosophy Society.

Editorial board (2009-present), *American Journal of Bioethics: Neuroscience*.

Member (2008-2010), Defining Wisdom Project, University of Chicago.

Board member and special advisor (2008-present), Positive Neuroscience Project

Member (2007-2010), MacArthur Foundation Network on Law and Neuroscience Project

Editorial board (2005-present), *Social Neuroscience*, Psychology Press

Founding Member (2003-present), Moral Psychology Research Group.

Education and outreach

Hosted, led seminar for students from Boston Day and Evening Academy (2017)
Harvard College Undergraduate Research Association, Student Research Prize Judge (2013)
Presentation to the Commonwealth School, Boston, MA (2010)
Advisor to Franklin Institute, Philadelphia, PA (2009)
Hosted, led seminar for students from Compass School, Westminster, VT (2009, 2011, 2012)
Continuing education for state judges, Holderness, NH (2008)

Selected Harvard committee, organizational, and advisory service

Special Concentrations Committee chair (2017-present)
Special Concentrations Committee member (2013-2016)
Hoopes Prize Committee, social sciences, chair (2016, 2018-2022)
Hoopes Prize Committee, social sciences, member (2009-2015)
Dept. of Psychology, Social Area head, 2016-2017
Foundations of Human Behavior, Search Committee, 2016-2017.
Social Psychology Search Committee (2013-2014)
Panel on Academic Integrity (2013)
Social Psychology Seminar Series organizer (2009-2011, 2012-2013)
Dept of Psychology, Colloquium Committee Co-Chair (2006-2008, 2009-2011, 2012-2014)
Conflict of Interest Symposium advisor (2010-2011)
Committee on Human Research Policy (2009-2011)
Mind, Brain, Behavior Committee on Graduate Certificates (2009)
Committee to Review FAS document on Professional Development (2009)
Interdepartmental Philosophy-Psychology Research Symposium co-organizer (2008)
Dept of Psychology, Committee on Higher Degrees (2007-2008)
GSAS Moral Psychology Workshop organizer (2007-2008)
Mind, Brain, Behavior Standing Committee (2007-present)
Committee on Undergraduate Degrees (2006-2007)