

## 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

### 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

### Teaching and advising

#### Courses:

Introduction to Social Psychology (Psy 15, Lecture): Spring 2008-2015

Free Will, Responsibility, and Law (Psy, 2751, Psy 1750, Seminar): Fall 2007, 2010, 2012-2014

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

\* indicates current trainee

Graduate students (primary advisor): \*Regan Bernhard, \*Donal Cahill, \*Alek Chakroff, \*Steven \*Frankland, Joseph Paxton, Dillon Plunkett

Graduate students (secondary advisor, committee member, and/or collaborator): Stefano Anzellotti, Monica Burns, Bethany Burum, Juan-Manuel Contreras, Gus Cooney, Fieri Cushman, Jeffrey Ebert, Kurt Gray, Charles Houston, Anna Jenkins, Karim Kassam, Katrina Koslov, Matthew Killingsworth, Anna Leshinskaya, Neeru Paharia, David Rand, Amitai Shenhav, Leo Ungar, Liane Young

Postdoctoral trainees: Nobuhito Abe, Elinor Amit, Fiery Cushman, David Rand, Christine Makkellams, \*Hans Marien

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)

†Thomas T. Hoopes Prize Winner

### **Awards, honors, fellowships**

2013 Roslyn Abramson Award for excellence in undergraduate teaching

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

Voted a “Favorite Professor” by Harvard College Classes 2009-2011, 2014

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. (published or forthcoming translations: Chinese, complex Chinese, French, Korean, Japanese, Swedish)

### **Journal articles**

\* indicates trainee

\*Killingsworth, M.A., \*Stewart, L.E., Greene, J.D. (submitted). Is life worth living?: Measuring net happiness and its misperception.

\*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*.

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.

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

To be 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

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

Co-PI, Safety Constraints and Ethical Principles in Collective Decision Making Systems. Future of Life Institute. 2015-2018. \$275,000

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**

#### 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, NY, January 30, 2010.

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

973<sup>rd</sup> 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**

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.

#### Ad Hoc Reviewing

*Behavioral Neuroscience, Behavioral and Brain Sciences, Brain, Brain Research, Cambridge University Press, Cerebral Cortex, Cognition, Cognitive Affective and Behavioral Neuroscience, Cognitive Science, Current Biology, Emotion, Journal of Cognitive Neuroscience, Journal of Experimental Psychology: General, Journal of Experimental Social Psychology, Journal of Neuroscience, Journal of Personality and Social Psychology, Judgment and Decision-Making, MIT Press, National Science Foundation, Nature Neuroscience, Nature Reviews Neuroscience, NeuroImage, Neuron, Oxford University Press, Organizational Behavior and Human Decision Processes, Personality and Social Psychology Review, Psychological Bulletin, Psychological Review, Psychological Science, Science, Social Cognitive and Affective Neuroscience, Social Neuroscience, Trends in Cognitive Sciences, Trends in Neuroscience.*

#### Education and outreach

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)

Presentation to students from Compass School, Westminster, VT (2009, 2011, 2012)

Continuing education for state judges, Holderness, NH (2008)

## **Service at Harvard**

### Committees, organizational and advisory service

Special Concentrations Committee (2013-2015)  
Social Psychology Search Committee (2013-2014)  
Panel on Academic Integrity (2013)  
Hoopes Prize Committee (2009-2015)  
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)

### Selected presentations to Harvard student organizations and guest lectures

Darwin Day Panel, Harvard Humanist Community  
Social Studies 40, Philosophy and Methods of Social Science (FAS course)  
Life Sciences 60, Ethics, Biotechnology, and the Future of Human Nature (FAS course)  
Harvard Behavioral Laboratory in the Social Sciences (undergraduate research program)  
Harvard Society for Mind, Brain, and Behavior  
Harvard Brain (undergraduate organization)  
Jewish Law Student Society  
Trust, Emotion, Ethics, Morality (Kennedy School of Government course)  
MCB 145, Neurobiology of Perception and Decision Making 145 (FAS course)  
Life Sciences Advising Fortnight  
Mather House (undergraduate residence)  
Kennedy School of Government Leadership Roundtable  
Harvard Law School, Panel on Neuroscience and Criminal Law  
Mind, Brain, Behavior Panel on Cooperation and Morality  
Introduction to Psychology (FAS course)  
Ec 1030, Psychology and Economics (FAS course)  
Harvard Law School Student Association for Law and Mind Sciences  
Seminar on psychology and law (Harvard Law School course)  
Ethics seminar, SAFRA Center, Kennedy School of Government  
Psychology 1 (FAS course)