

Joshua D. Greene

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Appointment

Assistant Professor, Department of Psychology, Harvard University. (2006-present)

Education

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. Honors thesis advised by Derek Parfit.

Grants

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). 2008-2011 \$749,049

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

Fellowships

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

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

Book

My forthcoming book is about the moral and social implications of our emerging scientific understanding of morality. (Title TBD) *Penguin Group*, New York.

Journal Articles

Shenhav, A.S., Greene, J.D. (in prep) Utilitarian calculations, emotional assessments, and integrative moral judgments: Dissociating neural systems underlying moral judgment.

Greene, J.D., Lowenberg, K., Nystrom, L.E., and Cohen, J.D. (in prep) Neural dissociation between affective and cognitive moral disapproval.

Baron, J., Ritov, I., and Greene, J.D. (submitted) The duty to support nationalistic policies.

Shenhav, A.S., Greene, J.D. (submitted) Neural representations of expected moral value and its components.

Greene, J.D., Lowenberg, K., Paxton, J.M., Nystrom, L.E., Darley, J.M., and Cohen, J.D. (submitted) Duty vs. the greater good: dissociable neural bases of deontological and utilitarian moral judgment in the context of keeping and breaking promises.

Shariff, A.F., Greene, J.D., Schooler, J.W., (submitted) His brain made him do it: Encouraging a mechanistic worldview reduces punishment.

Paxton, J.M., Greene, J.D., (submitted) Moral reasoning: Hints and allegations. Invited submission for special issue on moral cognition, *Topics in Cognitive Science*.

Bazerman, M.H. and Greene, J.D. (in press). In favor of clear thinking: Incorporating moral rules into wise cost-benefit analysis. *Perspectives on Psychological Science*.

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. , 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.

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

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.

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

Cushman, F., Young, L., Greene, J.D. (in press) 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: Oxford University Press.

Greene, J. D. (in press) 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.

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

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

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, Cambridge, MA.

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

Greene, J. D. , Cohen J. D. (2006), For the law, neuroscience changes nothing and everything, in *Law and the Brain*, S. Zeki and O. Goodenough, Eds., Oxford University Press, New York.

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, Berlin.

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, New York.

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

Invited Presentations

(as of 7/09)

Of trolleys and cheaters. National Endowment for the Humanities Institute on Experimental Philosophy, University of Utah. July 7, 2009.

Human morality. Summer Institute in Cognitive Neuroscience, faculty lecture. University of California, Santa Barbara. June 22, 2009.

Candid camera in the age of the brain. Festschrift presentation in honor of John Darley, Princeton University, May 22, 2009.

Of trolleys and cheaters. Emory University neuroscience series. April 1, 2009.

Of trolleys and cheaters. Workshop on "The Economy of the Soul: Rational Choice and Moral Decision-Making," London School of Economics. November 21, 2008.

Of trolleys and cheaters. Seminar series at Functional Neuroimaging Lab, University College London. November 20, 2008.

The secret joke of Kant's soul. Seminar series at the Booth Graduate School of Business, University of Chicago. November 9, 2008.

The secret joke of Kant's soul. Seminar series at the NYU Stern School of Business, November 6, 2008.

The moral brain: Its structure and quirks. Mellon lecture series, Bates College. October 17, 2008.

The secret joke of Kant's soul. Social and Affective Neuroscience Conference. Boston, MA, June 7, 2008.

The secret joke of Kant's soul. Conference on Law and Emotion. University of Chicago Law School. May 10, 2008.

What pushes your moral buttons? Carnegie Mellon University, Behavioral Decision Research Seminar, Pittsburgh, PA, April 24, 2008.

Dueling Dualisms: How Neuroscience May Change the Way We Think about Moral and Legal Responsibility. Conference on NeuroLaw, Amherst College, Amherst, MA, March 1, 2008.

What pushes your moral buttons? MIT, Office of Naval Research conference on "Spanning the Socio-Cognitive Modeling Gap: From Development to Social Simulation," Cambridge, MA, March 2, 2008.

The moral brain: Its structure and quirks. Vanderbilt University Law School, Law and Behavioral Biology Series. Nashville, TN, January 31, 2008.

What Pushes Your Moral Buttons? Cognitive Lunch series, Yale University, New Haven, CT, November 13, 2007.

The Moral Brain. Judicial Teaching Conference on Law and Neuroscience sponsored by the Gruter Institute for Law and Behavioral Research. Holderness, NH. Oct 19-20, 2007.

Neuroethics. Multi-Modal Short Course on neuroimaging. Athinoula A. Martinos Center for Biomedical Imaging, Mass General Hospital, Charlestown, MA, June 28, 2007.

What Pushes Your Moral Buttons? Law and Philosophy Seminar, Georgetown University Law Center, Washington, D.C., March 12, 2007.

The Moral Brain: Its Structure and Quirks. Clinical Bioethics Seminar Series, National Institutes of Health, Bethesda, MD, February 28, 2007.

What Pushes Your Moral Buttons? Human Development Colloquium Series. Dept of Psychology, Boston University, Boston, MA. Nov 29, 2006.

Emotion, Cognition, and the Trolley Problem. Symposium on Psychology, Morality, and Other Minds. Dept of Philosophy, MIT. Cambridge, MA. Nov 17, 2006.

What Pushes Your Moral Buttons? Social Psychology Colloquium Series, University of Massachusetts, Amherst. Nov 3, 2006.

What Pushes Your Moral Buttons? Decamp Lecture, Center for Human Values, Princeton University, Princeton, NJ. Oct 4, 2006.

What Pushes Your Moral Buttons? Judgment and Decision-Making series, Johnson School of Business, Cornell University. Sept 26, 2006.

What Pushes Your Moral Buttons? Departmental colloquium, Dept. of Philosophy, University of Arizona, Tucson. Sept, 22, 2006.

What Pushes Your Moral Buttons? Boston College, Affective Science series. Newton, MA. Sept, 18, 2006

The Neuroscience of Moral Decisions: Philosophical and Legal Implications. Seminar for federal judges on neuroscience and the law sponsored by AAAS, the Federal Judicial Center, the National Center for State Courts, and the Dana Foundation. Washington D.C., June 29, 2006.

The Moral Brain: Its Structure and Quirks. Technology and Ethics Working Research Group, Yale University, New Haven, Conn., March 1, 2006

The Moral Brain: Its Structure and Quirks. Bioethics Lecture Series, University of Pennsylvania, Philadelphia, PA, February 23, 2006.

Emotion and Cognition in Moral Judgment. Neuroscience and Moral Psychology Colloquium, University of Utah, Salt Lake City, Utah, February 10, 2006.

Emotion and Cognition in Moral Judgment. Symposium on Emotion and Morality, Emotion Pre-Conference, Society for Personality and Social Psychology Annual Meeting, January 25, 2006.

Moral Intuition: Psychological Explanations and Normative Justifications. Mini-Conference on The Doctrine of Double Effect and the Role of Intentions in Moral Judgment. Princeton University, December 8, 2005.

Emotion and Cognition in Moral Judgment. Symposium on Moral and Justice Judgments. Society for Experimental Social Psychology Annual Meeting, San Diego, CA, October 8, 2005.

Emotion and Cognition in Moral Judgment. Decision Processes Brown Bag, University of Pennsylvania, Philadelphia, PA, June 13, 2005.

Dueling Dualisms: How the Left, the Right, and the Middle Think about Responsibility and the Brain. Symposium on Law and the Brain. American Enterprise Institute, Washington, D.C., June 1, 2005.

Emotion and Cognition in Moral Judgment. Social Cognitive and Affective Neuroscience Conference, Princeton University, Princeton, NJ, May 16, 2005.

Neuroscience and moral decision-making. Year of World Citizenship, Science and Technology, Public Lecture, Beloit College, Beloit, Wisconsin, February 18, 2005.

Emotion and cognition in moral judgment. Department of Psychology, University of Toronto, Toronto, Ontario, February 8, 2005.

Emotion and cognition in moral judgment. Social Ethics and Normative Theory reading group, Stanford University, Palo Alto, CA, February 4, 2005.

Emotion and cognition in moral judgment. "Cognitive Lunch," Department of Psychology, Stanford University, Palo Alto, CA, February 3, 2005.

Emotion and cognition in moral judgment. Department of Psychology, University of California at Berkeley, Berkeley, CA, February 2, 2005.

Emotion and cognition in moral judgment. Foundation IPSEN conference on the Neurobiology of Human Values, Paris, France, January, 24 2005.

Emotion and cognition in moral judgment. Seminar in Behavioral Neuroscience, Yale University, New Haven, CT, December 7, 2004.

Emotion and cognition in moral judgment. Social Psychology Research Workshop, Harvard University, Cambridge, MA, November 30, 2004.

Emotion and cognition in moral judgment. Rutgers University Cognitive Science Seminar Series, October 28, 2004.

Emotion and cognition in moral judgment. Departmental Colloquium, Department of Psychology, Rutgers University, Newark, NJ, October 15, 2005.

Emotion and cognition in moral judgment. New York University, Department of Psychology, Cognition and Perception seminar series, September 23, 2004.

Cognitive conflict and control in moral judgment. Society for the Advancement of Behavioral Economics / International Association for Research in Economic Psychology Joint Meeting, Drexel University, Philadelphia, PA, July 15-18, 2004.

Emotion and cognition in moral judgment. International Society for Research on Emotion meeting, New York City, July 7-11, 2004.

Cognitive conflict and control in moral judgment. Presentation at the conference on the Psychology and Biology of Morality, Dartmouth College, May 22, 2004.

Cognitive conflict and control in moral judgment. Presentation to the UCLA Global Fellows, May 6, 2004.

Cognitive conflict and control in moral judgment. Presentation at the Brain Mapping Center, UCLA, May 5, 2004.

Cognitive conflict and control in moral judgment. Presentation to the Division of Social Sciences and Humanities, Caltech, Pasadena, CA, May 3, 2004.

Cognitive conflict and control in moral judgment. Presentation at the Cognitive Neuroscience Society Eleventh Annual Meeting, Satellite Preconference on Social Brain Science, April 17, 2004.

Cognitive conflict and control in moral judgment. Plenary presentation, "Ethics and the Brain" session, "Toward a Science of Consciousness VI" conference, Tucson, Arizona, April 7-11, 2004.

Cognitive conflict and control in moral judgment. Presentation at the workshop on Emotions, Evolution, and Ethics. Duke University, University of North Carolina at Chapel Hill, April 2-3, 2004.

Freedom, responsibility, and the brain. Hanse Institute for Advanced Studies, Delmenhorst, Germany, March 25-28, 2004.

Cognitive conflict and control in moral judgment. Presentation as co-convenor of The Emotional Basis of Cooperation and Punishment in Social Life, Santa Fe Institute, February 13-15, 2004.

Innateness and the structure of the moral mind. Presentation at the AHRB project on Innateness and the Structure of the Mind, Year Three Workshop: Foundations and the Future, Rutgers University, October 17-19, 2003.

Kant vs. Mill in the brain. Presentation part of the Evolutionary Studies Seminar Series, SUNY Binghamton, October 10, 2003.

Kant vs. Mill in the brain. Presentation part of the Harvard Social and Affective Neuroscience Series, Dept. of Psychology, Harvard University, October 3, 2003.

Kant vs. Mill in the brain. Presentation at the Santa Fe Institute Founding Workshop on the Behavioral Sciences, August 14-16, 2003.

On the mechanics of morals. Plenary presentation at the 4th International Conference on Intelligent Processing and Manufacturing of Materials, Sendai, Japan, May 20, 2003.

Kant vs. Mill in the brain. Presentation at the University of Pennsylvania Center for Cognitive Neuroscience Lunchtime Talk Series, May 5, 2003.

Moral psychology and bioethics, presentation part of the DeCamp Bioethics Series at the Center for Human Values, Princeton University, February 13, 2002.

Commentary on Steven Pinker, "The Blank Slate" at the Symposium on Bioethics and the Cognitive Neuroscience Revolution, sponsored by the Center for Bioethics and the Center for Cognitive Neuroscience, University of Pennsylvania, February 7, 2002.

Emotion and cognition in moral judgment: results from fMRI, presentation to the University of Pennsylvania Department of Psychology, November 7, 2001.

Emotion and cognition in moral judgment: results from fMRI, Presentation to the University of Iowa Department of Neurology, October 18, 2001.

On the variable role of emotion in moral judgment: results from fMRI. Presentation at the University of Pennsylvania Center for Cognitive Neuroscience Lunchtime Talk Series, February 5, 2001.

On the biological basis of moral judgment. Presentation at the *State of the World Forum*, New York City, September 2000.

Presentations from submitted abstracts

Paxton, J. Ungar, L., and Greene, J. Moral reasoning given a strong argument and time: Evidence for genuine moral reasoning. Annual meeting of the cognitive science society, Amsterdam, July 30, 2009.

*Shenhav, A., Greene, J.D. Utilitarian calculations, emotional assessments, and integrative moral judgments: Differentiating neural systems underlying moral decision-making. Annual Meeting of the Society for Cognitive Neuroscience, March 24, 2009. (*Winner of a "Graduate Students Presents" award)

Greene, J.D., Paxton, J.M. The neurobiology of virtue: Dissociable patterns of neural activity associated with honest and dishonest behavior. Slide presentation at the Society for Neuroscience Annual Meeting, Washington, D.C., November 15, 2008.

Shenhav, A., Greene, J.D. Representing expected moral value: Outcome magnitude, probability, and expected value in the context of moral judgment. Poster presentation at the Society for Neuroscience Annual Meeting, Washington, D.C., November 18, 2008.

Greene, J.D., Paxton, J.M., Nystrom, L.E., Cohen, J.D. Dissociation between affective and cognitive moral disapproval. Slide presentation at the Society for Personality and Social Psychology Annual Meeting, Albuquerque, NM, February 8, 2008.

Greene, J.D., Paxton, J.M., Nystrom, L.E., Cohen, J.D. Dissociation between affective and cognitive moral disapproval. Slide presentation at the Society for Neuroscience Annual Meeting, San Diego, CA, November 4, 2007.

Greene, J.D., Lindsell, D., Clarke, A., Lowenberg, K., Nystrom, L.E., Darley, J.M., Cohen, J.D. (2007). What Pushes Your Moral Buttons? Symposium presentation at the Annual meeting of the Society for Personality and Social Psychology, Memphis, TN, January 25, 2007.

Greene, J.D., Nystrom, K. Lowenberg, A.D., Darley, J.M., Cohen, J.D. (2005). Saving Lives vs. Breaking Promises; An fMRI Investigation of Consequentialist and Deontological Moral Judgment. Slide presentation at the Society for Neuroscience Annual Meeting, Washington, D.C., November 12, 2005.

Greene, J.D., Nystrom, L.E., Engell, A.D., Darley, J.M., Cohen, J.D. (2003). Patterns of neural activity correlated with individual differences in moral judgment. Slide presentation at the Society for Neuroscience Annual Meeting, New Orleans, November 10, 2003.

Greene, J.D., Sommerville, R.B., Nystrom, L.E., Darley, J.M., & Cohen, J.D. (2002). Cognitive and affective conflict in moral judgment. Poster presentation, Cognitive Neuroscience Society Ninth Annual Meeting, April 2002, San Francisco.

Greene, J.D.. A psychological perspective on Nozick's experience machine and Parfit's repugnant conclusion. Presentation at the Society for Philosophy and Psychology Annual Meeting, June 2001, Cincinnati, OH.

Greene, J.D., Sommerville, R.B., Nystrom, L.E., Darley, J.M., & Cohen, J.D. (2000). An fMRI investigation of emotion in moral judgment. *Society for Neuroscience Abstracts*, 26. Poster presentation, Society for Neuroscience, Annual Meeting, November 2000, New Orleans.

Professional Activities

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

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

Short-Term Fellowships

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

Returning Scholar, Positive Psychology Summer Institute, Montchanin, DE, August, 2003.

Scholar, Positive Psychology Summer Institute, Montchanin, DE, August, 2002.

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

Teaching

Awards

Voted a "Favorite Professor" by the Harvard College Class of 2009

Voted a "Favorite Professor" by the Harvard College Class of 2010

Courses Taught:

Introduction to Social Psychology

Social Neuroscience

Moral Cognition

Moral Cognition (Research Seminar)

Free Will, Responsibility, and Law

Graduate students (primary advisor): Steven Frankland, Joseph Paxton

Graduate students (secondary advisor/committee member/collaborator): Fiery Cushman, Jeffrey Ebert, Kurt Gray, Charles Houston, Anna Jenkins, Karim Kassam, Katrina Koslov, Matthew Killingsworth, Neeru Paharia, David Rand, Amitai Shenhav, Leo Ungar, Liane Young.

Postdoctoral trainees: Nobuhito Abe (begin 2010), Elinor Amit, Fiery Cushman

Undergraduate thesis students: Lirui Li, Jay Musen, Rocksheng Zhong