

## **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 and Fellowships**

Co-PI, National Science Foundation BCS-0351996 (2004-2006), Cognitive Neuroscience Program, Emotion and Cognition in Moral Judgment.

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**

*The Terrible, Horrible, No Good, Very Bad Truth About Morality and What to Do About It* (in prep). Penguin Group, New York.

### **Journal Articles**

Greene, J.D., Morelli, S.A., Lowenberg, K., Nystrom, L.E., Cohen, J.D. (submitted) Cognitive load selectively interferes with utilitarian moral judgment.

Greene, J.D., Lindsay, D., Clarke, A.C., Nystrom, L.E., and Cohen, J.D. (submitted) What pushes your moral buttons?: Modular myopia and the trolley problem.

Greene, J.D., Lowenberg, K., Nystrom, L.E., Darley, J.M., and Cohen, J.D. (in prep) Saving lives vs. keeping promises: an fMRI investigation of consequentialist and deontological moral judgment.

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**

Greene, J. D. (in prep) 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. (in press). 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. (in press). 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.

## **Invited Presentations**

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.

Freedom, Responsibility, and the Brain. Moral Psychology Research Group, Rutgers University, New Brunswick, NJ, April 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-convener 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.

Invited discussant, The AHRB project on Innateness and the Structure of the Mind, Year Two Workshop: Culture and the Innate Mind, University of Sheffield, Sheffield, UK, April 11-13, 2003.

Kant vs. Mill in the brain. Presentation at the Positive Psychology Summer Institute, 2003, Montchanin, DE., August 5, 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.

The terrible, horrible, no good, very bad truth about morality and what to do about it. Presentation for the Biological and Psychological Explanations of Culture seminar, Rutgers University, February 17, 24, 2003

Emotion and cognition in moral judgment: competing human strengths. Presentation at the Positive Psychology Summer Institute, Montchanin, DE., August, 2002.

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.

The moral brain, presentation at Positive Psychology Conference, Akumal, Mexico, Jan., 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.

Emotion and cognition in moral judgment: results from fMRI, presentation to the Princeton University "Neurolunch" group, October 4, 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**

Greene, J.D., Lindsay, 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**

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

Ad Hoc Reviewing: *Behavioral Neuroscience*, Cambridge University Press, *Cerebral Cortex*, *Cognition*, *Current Biology*, *Journal of Cognitive Neuroscience*, *Journal of Neuroscience*, *Journal of Personality and Social Psychology*, National Science Foundation, *Nature Neuroscience*, *Nature Reviews Neuroscience*, *NeuroImage*, *Neuron*, Oxford University Press, *Psychological Science*, *Trends in Cognitive Sciences*, *Trends in Neuroscience*, *Science*.

### **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.