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1470 WJH
Spring 2007

Psychology 1551: Mind Perception

How should we understand the mind of a cow, a computer, a corporation, a person in pain, or a hated enemy? How does our natural ability to perceive minds influence our tendency to attribute a mind to God or to the dead? These are questions about mind perception.

The ways in which we perceive the conscious adult human mind are sometimes extended for use in perceiving other entities that depart from this mental prototype. Such non-prototypical minds—the minds of animals, robots, groups, and others—can challenge our mind perception processes and so reveal how these processes operate. And while some targets of mind perception stretch our capacities for understanding, others may over-extend our tendency to see minds and lead us to perceive a mind when in fact nothing is there. This course explores how mind perception processes function by examining how they operate in the perception of unusual targets—kinds of minds that transcend the prototypical idea of the human mind.

REQUIREMENTS

Comments on the Main Readings. Each week there will be main readings for the class (marked with * in the outline below). Your assignment is to do the reading and then turn in a page (or so) of comments on the reading set by class time that week. The comments should include 4 elements: a *summary* (a few sentences summarizing the readings), an *idea* (the most interesting or important idea you found in the readings or had about the topic), a *question* (a query, comment, complaint, wish, deeply repressed desire, or issue for class discussion), and an *example* (something you have experienced that is relevant to the topic). Class discussion each week will center on these comments. This requirement accounts for 20% of your course grade.

Class Participation. Your discussion, questions, and comments in class will account for 20% of your course grade. Late arrival and/or absence from class are considered lapses in participation.

Individual Reports on the Special Readings. In addition to the main readings, there are special readings for each week's topic. Each member of the class will select 2 to 3 of the weekly topics (beginning 2-14) and do one of the special readings those weeks. A 10-min. presentation on the special reading will be done in class that week. Your assignment is to present the special readings clearly and creatively, and to explain how the reading relates to the week's topic. This requirement accounts for 25% of your course grade.

Term Paper. A paper examining a specific topic in the study of mind perception accounts for 30% of your grade. This paper may take the form of a review, a theory, a case report, a research proposal, or a research report. A proposal for the paper (under one page) is due

4-4; a written paper in APA style is due in class on 4-25; and a brief oral presentation of the paper in class should be prepared by 4-25 for presentation then or on 5-2.

Study Pool. Participation in the Department of Psychology Study Pool for 5 hours over the course of the semester will account for 5% of your grade. Alternative assignments can be substituted if you prefer. Study pool details are here:

<http://studypool.wjh.harvard.edu/>

DATES, OUTLINE, AND READINGS

* The main readings for each topic.
% Highest priority special readings.

1-31 Organizational Meeting

2-7 The Prototypical Mind

*Baron-Cohen, S. (1994). *Mindblindness*. Cambridge, MA, MIT Press. (Ch. 1, 4-5).

*Dennett, D. (1996). *Kinds of minds*. New York: Basic Books. (Ch 1-3).

Farah, M. J., & Heberlein, A. *Personhood and neuroscience: Naturalizing or nihilating?* Unpublished manuscript.

*Gray, H. M., Gray, K., & Wegner, D. M. (2007). Dimensions of mind perception. *Science*, 315, 619.

Jack, A. I., Robbins, P., & Roepstorff, A. (2006). *The genuine problem of consciousness*. Unpublished manuscript.

Ruby, P., & Decety, J. (2001). Effect of subjective perspective taking during simulation of action: A PET investigation of agency. *Nature Neuroscience*, 4, 546-550.

Russell, S. J., & Norvig, P. (1995). *Artificial intelligence: a modern approach*. Englewood Cliffs, NJ: Prentice-Hall.

Wegner, D. M., & Giuliano, T. (1982). The forms of social awareness. In W. J. Ickes & E. S. Knowles (Eds.), *Personality, roles, and social behavior* (pp. 165-198). New York: Springer-Verlag.

2-14 The Minds of Animals

Allison, T., Puce, A., & McCarthy, G. (2000). Social perception from visual cues: The role of the STS region. *Trends in Cognitive Sciences*, 7, 267-278.

Barrett, H. C., Todd, P. M., Miller, G. F., & Blythe, P. W. (in press). Accurate judgments of intention from motion cues alone: A cross-cultural study. *Evolution and Human Behavior*.

Bassili, J. N. (1976). Temporal and spatial contingencies in the perception of social events. *Journal of Personality and Social Psychology*, 33, 680-685.

Biomotion Lab: <http://www.biomotionlab.ca/Demos/BMLwalker.html>

Blumberg, M. S., & Wasserman, E. A. (1995). Animal mind and the argument from design. *American Psychologist*, 50(3), 133-144.

Castelli, F., Happe, F., Frith, U., & Frith, C. D. (2000). Movement and mind: A functional imaging study of perception and interpretation of complex intentional movement patterns. *Neuroimage*, 12, 314-325.

Dally, J. M., Emery, N. J., & Clayton, N. S. (2006). Food-caching western scrub-jays keep track of who was watching when. *Science*, 312, 1662-1665.

Decety, J., Grezes, J., Costes, N., Perani, D., Jeannerod, M., Procyk, E., et al. (1997). Brain activity during observations of actions: Influence of action content and subject's strategy. *Brain*, 120 1763-1777.

Epley, N., Waytz, A., & Cacioppo, J. T. (in press). On seeing human: A three-factor theory of anthropomorphism.

- *Gallese, V., & Goldman, A. (1998). Mirror neurons and the simulation theory of mindreading. *Trends in Cognitive Sciences*, 2, 493-501.
- Hari, R., Forss, N., Avikainen, S., Kirveskari, E., Salenius, S., & Rizzolatti, G. (1998). Activation of human primary motor cortex during action observation: A neuromagnetic study. *Proceedings of the National Academy of Science, USA*, 95, 15061-15065.
- Heberlein, A. (in press). Animacy and intention in the brain: Neuroscience of social event perception.
- %Heberlein, A. S., Adolphs, R., Tranel, D., & Damasio, H. (2004). Cortical regions for judgments of emotions and personality traits for point-light walkers. *Journal of Cognitive Neuroscience*, 16(7), 1143-1158.
- Heider, F., & Simmel, M. (1944). An experimental study of apparent behavior. *American Journal of Psychology*, 57, 243-259.
- Johansson, G. (1973). Visual perception of biological motion and a model for its analysis. *Perception and Psychophysics*, 14, 201-211.
- *Kennedy, J. S. (1992). *The new anthropomorphism*. New York: Cambridge University Press. (Ch 1-2)
- %Langton, S., Watt, R. J., & Bruce, V. (2000). Do the eyes have it? Cues to the direction of social attention. *Trends in Cognitive Sciences*, 4, 50-59.
- Macrae, C. N., Hood, B. M., Milne, A. B., Rowe, A. C., & Mason, M. F. (2002). Are you looking at me? Eye gaze and person perception. *Psychological Science*, 13(5), 460-464.
- Medin, D. L., & Atran, S. (2004). The native mind: Biological categorization and reasoning in development and across cultures. *Psychological Review*, 111, 960-983.
- %Morewedge, C.K., Preston, J. & Wegner, D.M. (in press). Timescale bias in the attribution of mind. *Journal of Personality and Social Psychology*.
- %Opfer, J. E. (2002). Identifying living and sentiment kinds from dynamic information: The case of goal-directed versus aimless autonomous movement in conceptual change. *Cognition*, 86, 97-122.
- Pelphrey, K. A., & Morris, J. P. (2006). Brain mechanisms for interpreting the actions of others from biological-motion cues. *Current Directions in Psychological Science*, 15, 136-140.
- *Scholl, B., & Tremoulet, P. D. (2000). Perceptual causality and animacy. *Trends in Cognitive Sciences*, 4, 299-309.
- Tremoulet, P. D., & Feldman, J. (2000). Perception of animacy from the motion of a single object. *Perception*, 29, 943-951.

2-21 The Minds of Machines and Robots

- Bartneck, C. (2000). *Affective Expressions of Machines*. Unpublished manuscript.
- %Breazeal, C., & Arnananda, L. (2002). Recognition of affective communicative intent in robot-directed speech. *Autonomous Robots*, 12, 83-104.
- *Breazeal, C. (2002). Regulation and entrainment in human-robot interaction. *International Journal of Robotics Research*, 21, 1-20.
- %Breazeal, C. (2003). Emotion and sociable humanoid robots.
- Emery, N. J. (2000). The eyes have it: The neuroethology, function and evolution of social gaze. *Neuroscience and Biobehavioral Reviews*, 24, 581-604.
- Floridi, L., & Sanders, J. W. (2004). On the morality of artificial agents. *Minds and Machine*, 14, 349-379.
- *Guajardo, J. J., & Woodward, A. L. (2004). Is agency skin deep? Surface attributes influence infants' sensitivity to goal-directed action. *Infancy*, 6(3), 361-384.
- %Hinds, P. J., Roberts, T.L. & Jones, H. (2004). Whose job is it anyway? A study of human-robot interaction in a collaborative task. *Human-Computer Interaction*, 19, 151-181.
- *Johnson, S. C. (2003). Detecting agents. *Phil. Trans. R. Soc. Lond. B*, 358, 549-559.
- %Legerstee, M. (1991). The role of person and object in eliciting early imitation. *Journal of Experimental Child Psychology*, 51, 423-433.
- %McFarland, D., & Bossert, T. (1993). *Intelligent behavior in animals and robots*. Cambridge, MA: The MIT Press. (Ch. 1)
- Read, S., Miller, L., Monroe, B., Brownstein, A., Zachary, W., LeMentec, J.-C., et al. (2006). A neurobiologically inspired model of personality in an intelligent agent. In J. Gratch (Ed.), *Lecture Notes in Computer Science* (Vol. 4133, pp. 316-328). Berlin/Heidelberg: Springer-Verlag.
- Scassellati, B. (2002). Theory of mind for a humanoid robot. *Autonomous Robots*, 12, 13-24.

- Thomaz, A. L., Hoffman, G., & Breazeal, C. *Experiments in socially guided machine learning: Understanding human intent of reward/punishment*. Unpublished manuscript, Cambridge.
- *Turing, A. M. (2004). Computing machinery and intelligence. In S. Shieber (Ed.), *The Turing Test: Verbal Behavior as the Hallmark of Intelligence* (pp. 67-95). Cambridge, MA: The MIT Press.

2-28 The Mind of the Child: Perception of Naïveté

- *Blakemore, S. J., & Decety, J. (2001). From the perception of action to the understanding of intention. *Nature Reviews: Neuroscience*, 2, 561-567.
- %Buldain, R. W., Crano, W. D., & Wegner, D. M. (1982). Effects of age of actor and observer on the moral judgments of children. *The Journal of Genetic Psychology*, 141, 261-270.
- %Flavell, J. H., Green, F. L., & Flavell, E. R. (1995). The development of children's knowledge about attentional focus. *Developmental Psychology*, 31, 706-712.
- Gallese, V. *Action, goals, and their role in intersubjectivity: From mirror neurons to the "shared manifold" hypothesis*. Unpublished manuscript.
- German, T. P., Niehaus, J. L., Roarty, M. P., Giesbrecht, B., & Miller, M. B. (2004). Neural correlates of detecting pretense: Automatic engagement of the intentional stance under covert conditions. *Journal of Cognitive Neuroscience*, 16(10), 1805-1817.
- Hauser, M., & Carey, S. (1998). Building a cognitive creature from a set of primitives: Evolutionary and developmental insights. In D. D. Cummins & C. Allen (Eds.), *The evolution of mind* (pp. 51-106). New York: Oxford University Press.
- *Keysar, B., Barr, D. J., Balin, J. A., & Brauner, J. S. (2000). Taking perspective in conversation: The role of mutual knowledge in comprehension. *Psychological Science*, 11, 32-38.
- %Kozak, M. N., Marsh, A. A., & Wegner, D. M. (2006). What do I think you're doing? Action identification and mind attribution. *Journal of Personality and Social Psychology*, 90(4), 543-555.
- Langdon, R., Coltheart, M., Ward, P. B., & Catts, S. V. (2001). Visual and cognitive perspective-taking impairments in schizophrenia: A failure of allocentric simulation? *Cognitive Neuropsychiatry*, 6, 241-269.
- Nickerson, R. S. (1999). How we know--and sometimes misjudge--what others know: Imputing one's own knowledge to others. *Psychological Bulletin*, 125, 737-759.
- %Ross, L., & Puccio, C. Understanding misunderstanding: Social psychological perspectives. In T. Gilovich & D. Miller (Eds.), *Heuristics & Biases*.
- *Royzman, E. B., Cassidy, K. W., & Baron, J. (2003). "I know, you know": Epistemic egocentrism in children and adults. *Review of General Psychology*, 7, 38-65.
- Siegal, M., & Varley, R. (2002). Neural systems involved in 'theory of mind'. *Nature Reviews: Neuroscience*, 3, 463-471.
- Stuss, D. T., Gallup, G. G., Jr., & Alexander, M. P. (2001). The frontal lobes are necessary for 'theory of mind'. *Brain*, 124, 279-286.
- Vogeley, K., Bussfeld, S. P., Newen, A., Herrmann, S., Happe, F., Falkai, P., et al. (2001). Mind reading: Neural mechanisms of theory of mind and self-perspective. *Neuroimage*, 14, 170-181.
- *Wegner, D. M., Fuller, V., & Sparrow, B. (2002). Clever hands: Uncontrolled intelligence in facilitated communication. *Journal of Personality and Social Psychology*, 85, 5-19.
- %Woodward, A. (1999). Infants' ability to distinguish between purposeful and nonpurposeful behaviors. *Infant Behavior and Development*, 22, 145-160.

3-7 The Mind of the Enemy

- %Castano, E., & Giner-Sorolla, R. (2006). Not quite human: Infrahumanization in response to collective responsibility for intergroup killing. *Journal of Personality and Social Psychology*, 90(5), 804-818.
- %Eberhardt, J. L., Davies, P. G., Purdie-Vaughns, V. J., & Johnson, S. L. (2006). Looking deathworthy: Perceived stereotypicality of black defendants predicts capital-sentencing outcomes. *Psychological Science*, 17(5), 383-386.
- Frantz, C. M., & Janoff-Bulman, R. (2000). Considering both sides: The limits of perspective taking. *Basic and Applied Social Psychology*, 22, 31-42.

- %Galinsky, A. D., & Moskowitz, G. B. (2000). Perspective-taking: Decreasing stereotype expression, stereotype accessibility, and in-group favoritism. *Journal of Personality and Social Psychology*, 78, 708-724.
- Galinsky, A. D., & Mussweiler, T. (2001). First offers as anchors: The role of perspective-taking and negotiator focus. *Journal of Personality and Social Psychology*, 81, 657-669.
- Greene, R. (1998). *The 48 Laws of Power*. New York: Penguin Books.
- *Harris, L. T., & Fiske, S. T. (2006). Dehumanizing the lowest of the low: Neuroimaging responses to extreme out-groups. *Psychological Science*, 17(10), 847-853.
- *Haslam, N. (2006). Dehumanization: An integrative review. *Personality and Social Psychology Review*, 10(3), 252-264.
- %Loughnan, S., & Haslam, N. (In press). Animals and androids: Implicit associations between social categories and nonhumans. *Psychological Science*.
- %Vaes, J., Paladino, M.P., Castelli, L., Leyens, J-P. & Giovanazzi, A. (2003). On the behavioral consequences of infrahumanization: The implicit role of uniquely human emotions in intergroup relations. *Journal of Personality and Social Psychology*, 85, 1016-1034.
- Viki, G. T., Winchester, L., Tishall, L., Chisango, T., Pina, A., & Russell, R. (2006). Beyond secondary emotions: The infrahumanization of outgroups using human-related and animal-related words. *Social Cognition*, 24(6), 753-775.
- Wu, S., & Keysar, B. (in press). The effect of culture on perspective taking. *Psychological Science*.

3-14 The Group Mind

- *Abelson, R. P., Dasgupta, N., Park, J., & Banaji, M. R. (1998). Perceptions of the collective other. *Personality and Social Psychology Review*, 2(4), 243-250.
- %Bloom, P., & Veres, C. (1999). The perceived intentionality of groups. *Cognition*, 71, b1-b9.
- Hamilton, D. L., & Sherman, S. J. (1996). Perceiving persons and groups. *Psychological Review*, 103, 336-355.
- %Hollingshead, A. B. (2000). Perceptions of expertise and transactive memory in work relationships. *Group Processes and Intergroup Relations*, 3, 257-267.
- %Knobe, J., & Prinz, J. (in press). Intuitions about consciousness: Experimental studies. *Phenomenology and Cognitive Science*.
- %Knowles, E. S., & Bassett, R. L. (1976). Groups and crowds as social entities: Effects of activity, size, and member similarity on nonmembers. *Journal of Personality and Social Psychology*, 34(5), 837-845.
- Moreland, R. L., & Myaskovsky, L. (2000). Exploring the performance benefits of group training: Transactive memory or improved communication? *Organizational Behavior and Human Decision Processes*, 82, 117-133.
- *O'Laughlin, M. J., & Malle, B. F. (2002). How people explain actions performed by groups and individuals. *Journal of Personality and Social Psychology*, 82(1), 33-48.
- Velleman, J. D. (1997). How to share an intention. *Philosophy and Phenomenological Research*, 57(1), 29-50.
- *Wegner, D. M. (1986). Transactive memory: A contemporary analysis of the group mind. In B. Mullen & G. R. Goethals (Eds.), *Theories of group behavior* (pp. 185-208). New York: Springer-Verlag.

3-21 The Mind of God and Imagined Minds

- *Barrett, J. L. (2000). Exploring the natural foundations of religion. *Trends in Cognitive Sciences*, 4, 29-34.
- %Barrett, J. L., & Keil, F. C. (1996). Conceptualizing a nonnatural entity: Anthropomorphism in God concepts. *Cognitive Psychology*, 31, 219-247.
- Barrett, J. L., Richert, R. A., & Driesenga, A. (2001). God's beliefs versus mother's: The development of non-human agent concepts. *Child Development*, 72, 50-65.
- Bering, J. (2002). The existential theory of mind. *Review of General Psychology*, 6, 3-24.
- *Bloom, P. (2005). Is God an accident? *Atlantic Monthly*, 296, 105-112.
- %Cheyne, J. A. (2001). The ominous numinous: Sensed presence and 'other' hallucinations. *Journal of*

- Consciousness Studies*, 8(5-7), 133-150.
- Gilbert, D., Brown, R., Pinel, E., & Wilson, T. (2000). The illusion of external agency. *Journal of Personality and Social Psychology*, 79, 690-700.
- *Guthrie, S. E. (1980). A cognitive theory of religion. *Current Anthropology*, 21, 181-203.
- Keltner, D., & Haidt, J. (2003). Approaching awe, a moral, spiritual, and aesthetic emotion. *Cognition and Emotion*, 17(2), 297-314.
- Lillard, A. (1998). Ethnopsychologies: Cultural variations in theories of mind. *Psychological Bulletin*, 123, 3-32.
- %Luhmann, T. M. The art of hearing God. University of Chicago.
- Luhmann, T. M. (2004). Metakinesis: How God becomes intimate in contemporary U.S. Christianity. *American Anthropologist*, 106(3), 518-528.
- Nemeroff, C., & Rozin, P. (2000). The makings of the magical mind: The nature and function of sympathetic magical thinking. In K. S. Rosengren, C. N. Johnson & P. L. Harris (Eds.), *Imagining the Impossible: Magical, Scientific, and Religious Thinking in Children* (pp. 1-34). Cambridge: Cambridge University press.
- %Newman, L., & Baumeister, R. F. (1996). Toward an explanation of the UFO abduction phenomenon. *Psychological Inquiry*, 7, 99-126.
- %Norenzayan, A., & Hansen, I. G. (2006). Belief in supernatural agents in the face of death. *Personality and Social Psychology Bulletin*, 32(2), 174-187.
- Shariff, A. F., & Norenzayan, A. *God is watching you: Supernatural agent concepts increase prosocial behavior in anonymous economic game*. Unpublished manuscript.
- *Woolley, J. D. (1995). The fictional mind: Young children's understanding of imagination, pretense and dreams. *Developmental Review*, 15, 172-211.

3-28 (spring break)

4-4 The Mind of the Dead or Brain-Damaged

- Allison, S. T., Eylon, D., Beggan, J. K., & Bachelder, J. *The demise of leadership: Positivity and negativity biases in evaluations of dead leaders*. Unpublished manuscript.
- %Barrett, H. C., & Behne, T. (2004). Children's understanding of death as the cessation of agency: A test using sleep versus death. *Cognition*, 1-16.
- *Bering, J. M. (2002). Intuitive conceptions of dead agents' minds: The natural foundations of afterlife beliefs as phenomenological boundary. *Journal of Cognition and Culture*, 2.4.
- Bering, J. M. (2006). The folk psychology of souls. *Behavioral and Brain Sciences*.
- %Eylon, D., & Allison, S. T. (2005). The "Frozen in Time" effect in evaluations of the dead. *Personality and Social Psychology Bulletin*, 31(12), 1708-1717.
- %Flavell, J. H., Green, F. L., & Flavell, E. R. (1993). Children's understanding of the stream of consciousness. *Child Development*, 64, 387-398.
- %Flavell, J. H., Green, F. L., Flavell, E. R., & Lin, N. T. (1999). Development of children's knowledge about unconsciousness. *Child Development*, 70, 396-412.
- Gajraj, M., Doi, M., Mantzaridis, H., & Kenny, G. N. C. (1999). Comparison of bispectral EEG analysis and auditory evoked potentials for monitoring depth of anaesthesia during propofol anaesthesia. *British Journal Of Anaesthesia*, 82(6), 672-678.
- %Jones, J. G. (1994). Perception and memory during general anaesthesia. *British Journal Of Anaesthesia*, 73, 31-37.
- Parker, I. (January 20, 2003). Reading minds: If a person cannot move, talk, or even blink, is it possible to communicate with his brain? *The New Yorker*, 52-63.
- Platek, S. M., Critton, S. R., Myers, T. E., & Gallup, G. G., Jr. (2003). Contagious yawning: The role of self-awareness and mental state attribution. *Cognitive Brain Research*, 17, 223-227.
- Schiff, N. D. (2004). The neurology of impaired consciousness: Challenges for cognitive neuroscience. In M. S. Gazzaniga (Ed.), *The Cognitive Neurosciences III* (3 ed., pp. 1121-1132). Cambridge, MA: The MIT Press.
- Van Boven, L., & Loewenstein, G. (2003). Social projection of transient drive states. *Personality & Social Psychology Bulletin*, 29(9), 1159-1168.

*Zeman, A. (1997). Persistent vegetative state. *Lancet*, 350, 795-799.
Zeman, A. (2001). Consciousness. *Brain*, 124, 1263-1289.

4-11 The Minds of Patients, Victims, and Martyrs

- Avenanti, A., Buetti, D., Galati, G., & Aglioti, S. M. (2005). Transcranial magnetic stimulation highlights the sensorimotor side of empathy for pain. *Nature Neuroscience*, 8(7), 955-960.
- Bavelas, J. B., Black, A., Lemery, C. R., & Mullett, J. (1986). "I show how you feel": Motor mimicry as a communicative act. *Journal of Personality and Social Psychology*, 50, 322-329.
- Britt, L., & Heise, D. R. (1992). Impressions of self-directed action. *Social Psychology Quarterly*, 55(4), 335-350.
- %Danzinger, N., Prkachin, K. M., & Willer, J.-C. (2006). Is pain the price of empathy? The perception of others' pain in patients with congenital insensitivity to pain. *Brain*, 129, 2494-2507.
- *de Vignemont, F., & Singer, T. (2006). The empathic brain: How, when and why? *Trends in Cognitive Sciences*, 10(10), 435-441.
- Decety, J., & Jackson, P. L. (2006). A social-neuroscience perspective on empathy. *Current Directions in Psychological Science*, 15(2), 54-58.
- Engle, Y., & Kasser, T. (2005). Why do adolescent girls idolize male celebrities? *Journal of Adolescent Research*, 20, 263-283.
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- Heberlein, A. S., Adolphs, R., Tranel, D., & Damasio, H. Cortical regions for judgments of emotions and personality traits for point-light walkers. *Journal of Cognitive Neuroscience*, 16(7), 1143-1158.
- *Hodges, S., & Wegner, D. M. (1997). Automatic and controlled empathy. In W. J. Ickes (Ed.), *Empathic accuracy* (pp. 311-339). New York: Guilford.
- %Huband, N., & Tantam, D. (2000). Attitudes to self-injury within a group of mental health staff. *British Journal of Medical Psychology*, 73, 495-504.
- Karniol, R. (2001). Adolescent females' idolization of male media stars as a transition into sexuality. *Sex Roles*, 44(1/2), 61-77.
- Lindgren, B.-M., Wilstrand, C., Gilje, F., & Olofsson, B. (2004). Struggling for hopefulness: A qualitative study of Swedish women who self-harm. *Journal of Psychiatric and Mental Health Nursing*, 11, 284-291.
- %Marshall, W. L. et al. (1995). Empathy in sex offenders. *Clinical Psychology Review*, 15, 99-113.
- Mayer, J. D., & Geher, G. (1996). Emotional intelligence and the identification of emotion. *Intelligence*, 22.
- %McCauley, C. (2002). Understanding the 9/11 perpetrators: Crazy, lost in hate, or martyred? In N. Matuszak (Ed.), *History Behind the Headlines: The Origins of Ethnic Conflicts Worldwide* (Vol. 5, pp. 274-286). New York: Gale Publishing Group.
- Nock, M. K., & Prinstein, M. J. (2004). A functional approach to the assessment of self-mutilative behavior. *Journal of Consulting and Clinical Psychology*, 72(5), 885-890.
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- Royzman, E. B., & Kumar, R. (2001). On the relative preponderance of empathic sorrow and its relation to commonsense morality. *New Ideas in Psychology*, 19, 131-144.
- %Singer, T., Seymour, B., O'Doherty, J., Kaube, H., Dolan, R. J., & Frith, C. D. (2004). Empathy for pain involves the affective but not sensory components of pain. *Science*, 303(5661).
- *Spiro, H. (1992). Can empathy be taught? *Annals of Internal Medicine*, 116, 843-846.
- van Baaren, R. B., Holland, R. W., Kwakami, K., & van Knippenberg, A. (2003). Mimicry and prosocial behavior. *Psychological Science*, 15, 71-74.
- %Yule, A. L. (2006). *Empathy blocking: Intentional self-harm blocks the empathic process in observers*. Harvard Extension School, Cambridge, MA.

4-18 The Mind of the Self

%Bailenson, J. N., Beall, A. C., Blascovich, J., Raimundo, M., & Weisbuch, M. (2001). Intelligent agents

- who wear your face: Users' reactions to the virtual self.
- Bailenson, J. N., & Blascovich, J. *Avatars*. Unpublished manuscript.
- %Beninger, R. J., Kendall, S. B., & Vanderwolf, C. H. (1974). The ability of rats to discriminate their own behaviors. *Canadian Journal of Psychology* 28 79-91.
- %Blakemore, S. J., Wolpert, D. M., & Frith, C. D. (1998). Central cancellation of self-produced tickle sensation. *Nature Neuroscience*, 1 635-640.
- %Daprati, E., Franck, N., Georgieff, N., Proust, J., & Pacherie, E. (1997). Looking for the agent: an investigation into consciousness of action and self consciousness in schizophrenic patients. *Cognition*, 65, 71-86.
- Farrer, C., & Frith, C. D. (2001). Experiencing oneself vs. another person as being the cause of an action: The neural correlates of the experience of agency. *Neuroimage*, 15, 596-603.
- Frith, C. D., & Fletcher, P. (1995). Voices from nowhere. *Critical Quarterly*, 37, 71-83.
- *Graham, G., & Stephens, G. L. (1994). Mind and mine. In G. Graham & G. L. Stephens (Eds.), *Philosophical psychology* (pp. 91-109). Cambridge, MA: The MIT Press.
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4-25 Presentations

5-2 Presentations