

February 1, 2009

CURRICULUM VITAE: D.R. MANDEL

Biographical Details

Full name: David Robert Mandel
 Date and place of birth: July 8, 1966; Montreal, Quebec, Canada.
 Citizenship: Canadian
 Security clearance: Top Secret (obtained 2006)
 Marital/family status: Married, no children

 Present appointment: Defence Scientist and Group Leader
 Thinking, Risk, and Intelligence Group
 Adversarial Intent Section
 Defence R&D Canada –Toronto (DRDC Toronto)
 1133 Sheppard Avenue West, P.O. Box 2000
 Toronto, ON M3M 3B9, Canada
 Tel.: (416) 635-2000 ext. 3146
 Fax: (416) 635-2184
 E-mail: drmandel66@gmail.com

Education

Ph.D. Psychology, University of British Columbia, 1996.
 M.A. Psychology, University of British Columbia, 1992.
 B.A. with Honours and Distinction in Psychology, Concordia University, 1989.

Academic Honors and Awards

Fellow, Society for the Psychological Study of Social Issues (SPSSI), 2007.
 Social Sciences and Humanities Research Council of Canada Postdoctoral Fellowship,
 Stanford University, 1996-1998.
 Social Sciences and Humanities Research Council of Canada Doctoral Fellowship,
 University of British Columbia, 1994-1996.
 Natural Sciences and Engineering Research Council of Canada Doctoral Scholarship,
 University of British Columbia, 1992-1994.
 British Columbia Medical Services Summer Research Scholarship, University of British
 Columbia, 1991.
 University of British Columbia Research Awards, 1991, 1993.

Previous or Secondary Positions Held

Defence Scientist, Adversarial Intent Section, DRDC Toronto, Department of National
 Defence, Toronto, Canada, September 2006-December 2007.
 Defence Scientist, Command Effectiveness and Behaviour Section, DRDC Toronto,
 Department of National Defence, Toronto, Canada, September 2004-August
 2006.
 Adjunct Professor, Department of Psychology, University of Toronto (St. George campus),

Toronto, Canada, September 2004-present.
 Associate Professor, Department of Psychology, University of Victoria, Victoria, Canada,
 July 2001-August 2004 (tenured June 2004).
 Senior Lecturer, Department of Psychology, University of Hertfordshire, Hatfield,
 Hertfordshire, U.K., September 1999-June 2001.
 Lecturer, Department of Psychology, Birkbeck College, University of London, London,
 U.K., September, 1999-December, 1999.
 Lecturer, Department of Psychology, University of Hertfordshire, Hatfield, Hertfordshire,
 U.K., August 1998-August 1999.
 Postdoctoral Research Fellow, Department of Psychology, Stanford University, Stanford,
 California, U.S.A., November 1996-July 1998.
 Graduate Research Assistant (supervisor: Prof. Darrin Lehman), Department of Psychology,
 University of British Columbia, Vancouver, B.C., Canada, September 1990-
 October, 1996.
 Undergraduate Research Assistant (supervisor: Prof. Michael von Grunau), Department of
 Psychology, Concordia University, Montreal, Quebec, Canada, June 1989-June
 1990.

Research Interests

Human judgment and decision making; causal, counterfactual, and probabilistic reasoning; risk; intelligence analysis; psychology of collective violence and adversarial intent.

Publications

1. Lehman, D.R., Davis, C.G., DeLongis, A., Wortman, C.B., Bluck, S., Mandel, D.R., & Ellard, J.H. (1993). Positive and negative life changes following bereavement and their relations to adjustment. *Journal of Social and Clinical Psychology, 12*, 90-112.
2. Mandel, D.R., Axelrod, L.J., & Lehman, D.R. (1993). Integrative complexity in reasoning about the Persian Gulf War and the accountability-to-skeptical-audience hypothesis. *Journal of Social Issues, 49*(4), 201-215.
3. Mandel, D.R., Lehman, D.R., & Yuille, J.C. (1994). Should this child be removed from home? Hypothesis generation and information seeking as predictors of case decisions. *Child Abuse & Neglect, 18*, 1051-1062.
4. Mill, D., Gray, T., & Mandel, D.R. (1994). The influence of research methods and statistics courses on everyday reasoning and belief in unsubstantiated phenomena. *Canadian Journal of Behavioural Science, 26*, 246-258.
5. Mandel, D.R. (1995). Chaos theory, sensitive dependence, and the logistic equation. *American Psychologist, 50*, 106-107.
6. Mandel, D.R., Lehman, D.R., & Yuille, J.C. (1995). Reasoning about the removal of a child from home: A comparison of police officers and social workers. *Journal of Applied Social Psychology, 25*, 906-921.

7. Mandel, D.R., & Lehman, D.R. (1996). Counterfactual thinking and ascriptions of cause and preventability. *Journal of Personality and Social Psychology*, *71*, 450-463.
8. Mandel, D.R. (1998). The obedience alibi: Milgram's account of the Holocaust reconsidered. *Analyse & Kritik: Zeitschrift für Sozialwissenschaften*, *20*, 74-94.
9. Mandel, D.R., & Lehman, D.R. (1998). Integration of contingency information in judgments of cause, covariation, and probability. *Journal of Experimental Psychology: General*, *127*, 269-285.
10. Spellman, B.A., & Mandel, D.R. (1999). When possibility informs reality: Counterfactual thinking as a cue to causality. *Current Directions in Psychological Science*, *8*, 120-123.

[Reprinted in: Spellman, B. A., & Willingham, D. T. (Eds). (2005). *Current Directions in Cognitive Science: Readings from the American Psychological Society*. Upper Saddle River, NJ: Pearson Education / Prentice Hall.]
11. Mandel, D.R.(2000). On the meaning and function of normative analysis: Conceptual blur in the rationality debate? *Behavioral and Brain Sciences*, *23*, 686-687.
12. Mandel, D.R. (2001). Gain-loss framing and choice: Separating outcome formulations from descriptor formulations. *Organizational Behavior and Human Decision Processes*, vol. *85*, 56-76.
13. Lehman, A.M., Lehman, D.R., Hemphill, K.J., Mandel, D.R., & Cooper, L.M. (2002). Illness experience, depression, and anxiety in chronic fatigue syndrome. *Journal of Psychosomatic Research*, *52*, 461-465.
14. Mandel, D.R. (2002). Beyond mere ownership: Transaction demand as a moderator of the endowment effect. *Organizational Behavior and Human Decision Processes*, *88*, 737-747.
15. Mandel, D.R. (2002). Evil and the instigation of collective violence. *Analyses of Social Issues and Public Policy*, *2*(1), 101-108.
16. Mandel, D.R. (2002). Instigators of genocide: Examining Hitler from a social psychological perspective. In L.S. Newman and R. Erber (Eds.), *Understanding genocide: The social psychology of the Holocaust* (pp. 259-284). New York: Oxford University Press.
17. Villejoubert, G., & Mandel, D.R. (2002). The inverse fallacy: An account of deviations from Bayes's theorem and the additivity principle. *Memory & Cognition*, *30*, 171-178.
18. Dhami, M.K., & Mandel, D.R. (2003). *Adoption Support Program Queen Alexandra Centre for Children's Health: Evaluation of Client Services 2003 Final Report* (Technical report).
19. Mandel, D.R. (2003). Counterfactuals, emotions, and context. *Cognition & Emotion*, *17*, 139-159.

20. Mandel, D.R. (2003). Effect of counterfactual and factual thinking on causal judgments. *Thinking & Reasoning*, *9*, 245-265.
21. Mandel, D.R. (2003). Judgment dissociation theory: An analysis of differences in causal, counterfactual, and covariational reasoning. *Journal of Experimental Psychology: General*, *132*, 419-434.
22. Mandel, D.R. (2003). Simulating history: The problem of contingency. *Analyses of Social Issues and Public Policy*, *3*(1), 177-180.
23. Mandel, D.R. (2003). The obedience alibi. In M.C. Cardwell, L. Clark, & C. Meldrum (Eds.), *Psychology for AS Level* (3rd ed., p. 174). London: Collins.
24. Spellman, B.A., & Mandel, D.R. (2003). Causal reasoning, psychology of. In L. Nadel (Ed.), *Encyclopedia of Cognitive Science* (Vol. 1, pp. 461-466). London: Nature Publishing Group.
25. Mandel, D.R. (2004). Social psychological perspectives on the instigation of collective violence. In D. Munos-Rojas, J.-M. Falomir, & X. Chrysochoou (Eds.) *Proceedings of the Conference on War and Peace: Social Psychological Approaches to Armed Conflict and Humanitarian Issues* (pp. 183-190). Geneva, Switzerland: International Committee of the Red Cross and University of Geneva.
26. Mandel, D.R. (2004). Unanimity may be improbable, but dictatorship is worse: Comment on The dangers of unanimity by R. B. Zajonc. *Dialogue*, *19*(2), 28-29.
27. Dhami, M.K., Mandel, D.R., & Souza, K. (2005). Escape from reality: Prisoner's counterfactual thinking about crime, justice and punishment. In D.R. Mandel, D.J. Hilton, & P. Catellani (Eds.), *The psychology of counterfactual thinking* (pp. 165-182). London: Routledge.
28. Mandel, D.R. (2005). Counterfactual and causal explanation: From early theoretical views to new frontiers. In D.R. Mandel, D.J. Hilton, & P. Catellani (Eds.), *The psychology of counterfactual thinking* (pp. 11-27). London: Routledge.
29. Mandel, D.R., & Dhami, M.K. (2005). "What I did" versus "What I might have done": Effect of factual and counterfactual thinking on blame, guilt, and shame in prisoners. *Journal of Experimental Social Psychology*, *41*, 627-635.
30. Mandel, D.R., & Dhami, M.K. (2005). Introduction to the special issue on psychological perspectives on threats to democracy. *Analyses of Social Issues and Public Policy*, *5*(1), 205-207.
31. Mandel, D.R., Hilton, D.J., & Catellani, P. (Eds.). (2005). *The psychology of counterfactual thinking*. London: Routledge.
32. Mandel, D.R., Hilton, D.J., & Catellani, P. (2005). Introduction. In D.R. Mandel, D.J. Hilton, & P. Catellani (Eds.), *The psychology of counterfactual thinking* (pp. 1-7). London: Routledge.

33. Mandel, D. R. (2005). Threats to democracy: A judgment and decision making perspective. *Analyses of Social Issues and Public Policy*, 5(1), 209-222.
34. Mandel, D. R. (2005). Are risk assessments of a terrorist attack coherent? *Journal of Experimental Psychology: Applied*, 11, 277-288.
35. White, K., Lehman, D.R., Hemphill, K.J., Mandel, D.R., & Lehman, A.M. (2006). Attributions, control, and psychological adjustment: A study of Chronic Fatigue Syndrome. *Journal of Applied Social Psychology*, 36, 75-99.
36. Mandel, D. R. (2006). Economic transactions among friends: Asymmetric generosity but not agreement in buyers' and sellers' offers. *Journal of Conflict Resolution*, 50, 584-606.
37. Mandel, D. R., & Vartanian, O. (2006). Is the weighting of contingency data contingent on the hypothesis assessed? In R. Sun & N. Miyake (Eds.), *Proceedings of the 28th Annual Meeting of the Cognitive Science Society* (p. 2652). Mahwah, NJ: Erlbaum.
38. Dhami, M. K., Mandel, D. R., Loewenstein, G., & Ayton, P. (2006). Prisoners' positive illusions of their post-release success. *Law and Human Behavior*, 30(6), 631-647.
39. Dhami, M. K., Mandel, D. R., & Sothmann, K. (2007). An evaluation of post-adoption services. *Children and Youth Services Review*, 29(2), 162-179.
40. Mandel, D. R. (2007). Differential focus in causal and counterfactual thinking: Different possibilities or different functions? *Behavioral and Brain Sciences*, 30(5), 460-461.
- 41R. Mandel, D. R. (2007). Nested-sets theory, full stop: Explaining performance on Bayesian inference tasks without dual-systems assumptions. *Behavioral and Brain Sciences*, 30(3), 275-276.
42. Mandel, D. R. (2007). *Toward a concept of risk for effective military decision making*. DRDC Toronto Technical Report TR-2007-124.
43. Williams, J. J., & Mandel, D. R. (2007). Do evaluation frames improve the quality of conditional probability judgment? In D. S. McNamara & J. G. Trafton (Eds.), *Proceedings of the 29th Annual Meeting of the Cognitive Science Society* (pp. 1653-1658), Mahwah, NJ: Erlbaum.
44. Mandel, D. R. (2008). Violations of coherence in subjective probability: A representational and assessment processes account. *Cognition*, 106(1), 130-156.
45. Mandel, D. R., & Vartanian, O. (2008). Taboo or tragic: Effect of tradeoff type on moral choice, conflict, and confidence, *Mind & Society*, 7(2), 215-226.
46. Mandel, D. R. (2008, June). Judgment under uncertainty. *Intelligence Analyst Training Newsletter*, 7-9 [restricted access].

47. Pavlovic, N. J., Blackler, K., & Mandel, D. R. (2008). *Conflict and security indices*. DRDC Toronto Technical Memorandum TM-2008-168.
48. Pavlovic, N. J., Casagrande Hoshino, L., Mandel, D. R., & Dorn, A. W. (2008). *Indicators and indices of conflict and security: A review and classification of open-source data*. DRDC Toronto Technical Report TR-2008-167.
49. Kamleitner, B., Dhami, M. K., & Mandel, D. R. (2009). Gambling for a discount: Preferring a discount per item to discount per purchase? In A. L. McGill & S. Shavitt (Eds.), *Advances in Consumer Research: Volume 36*, Duluth, MN: Association for Consumer Research.
50. Mandel, D. R., & Vartanian, O. (in press). Weighting of contingency information in causal judgment: Evidence of hypothesis dependence and use of a positive-test strategy. *Quarterly Journal of Experimental Psychology*.
51. Mandel, D. R. (in press). Radicalization: What does it mean? In T. Pick & A. Speckhard (Eds.), *Indigenous terrorism: Understanding and addressing the root causes of radicalisation among groups with an immigrant heritage in Europe*. Amsterdam: IOS Press.

Presentations

1. Mandel, D.R., Lehman, D.R., & Yuille, J.C. (August, 1993). *Critical thinking and decision making of child abuse investigators*. Poster presented at the 101st Annual Convention of the American Psychological Association, Toronto, Canada.
2. Mandel, D.R. (August, 1997). *Positive-test and sufficiency-test biases in contingency information integration*. Paper presented at the Conference on Positive-Negative Asymmetry and Reasoning, Krakow, Poland.
3. Mandel, D.R. (December, 1998). *The obedience alibi: Obedience to authority and perpetrators of the Holocaust*. Colloquium presented at the Department of Psychology, University of East London, London, UK.
4. Mandel, D.R. (May, 1999). *Feature analysis: A new perspective on a classic approach to cognitive modeling*. Paper presented at the European Association of Experimental Social Psychology Small Group Meeting on Classic and Connectionist Approaches to Causal Inference and Social Judgment, Aix-en-Provence, France.
5. Mandel, D.R. (June, 1999). *Untangling framing: Gain-loss formulations and choice*. Colloquium presented to the Department of Psychology, Université de Toulouse II, Toulouse, France.
6. Mandel, D.R., & Lehman, D.R. (June, 1999). *Feature analysis: A new perspective on a classic approach to cognitive modeling*. Poster presented at the conference on Brain, Behaviour, and Cognitive Science, Edmonton, Canada.
7. Mandel, D.R. (July, 1999). *Feature analysis: Modeling issues in judgment and decision making*. Invited paper presented at the Advanced Computation Laboratory (Director: J.

Fox), Imperial Cancer Research Fund, London, UK.

8. Mandel, D.R. (July, 1999). Is possibility reality's informant? Counterfactual thinking and causal attribution. Paper presented in F. van Overwalle & D. Hilton (Chairs), "Attribution processes," symposium, The 12th General Meeting of the European Association of Experimental Social Psychology, Oxford, UK.

9. Mandel, D.R., & Ross, L.D. (August, 1999). *Effects of mental undoing on hedonic reactions to sequential gains and losses*. Poster presented at the 21st Annual Meeting of the Cognitive Science Society, Vancouver, Canada.

10. Villejoubert, G., Mandel, D.R., & Vallée-Tourangeau, F. (August, 1999). *Reasoners' sensitivity to the relative diagnosticity of answers in a hypothesis-testing task*. Poster presented at the 21st Annual Meeting of the Cognitive Science Society, Vancouver, Canada.

11. Mandel, D.R. (December, 1999). Mental undoing and hedonics. Paper presented in K. Manktelow & S. Lovie (Chairs), "Practical reasoning," symposium, The Annual London Conference of the British Psychological Society, London, UK.

12. Mandel, D.R. (February, 2000). *Across the three Cs: Dissociations among counterfactual, causal, and contingency judgments*. Paper presented at the London Judgment and Decision Making Group, University College London, UK.

13. Mandel, D.R. (March, 2000). *Untangling framing: Gain-loss formulations and choice*. Colloquium presented to the Department of Psychology, University of Wolverhampton, Wolverhampton, UK.

14. Mandel, D.R. (May, 2000). *Untangling framing: Gain-loss formulations and choice*. Paper presented at the London Judgment and Decision Making Group, University College London, UK.

15. Mandel, D.R. (August, 2000). *Counterfactual thinking and causality*. Paper presented at the Fourth International Conference on Thinking: Thinking 2000, British Psychological Society, Durham, UK.

16. Villejoubert, G., & Mandel, D.R. (August, 2000). *The inverse fallacy in posterior probability judgment*. Paper presented at the Fourth International Conference on Thinking: Thinking 2000, British Psychological Society, Durham, UK.

17. Mandel, D.R. (November, 2000). *Framing-induced representativeness bias in binomial probability judgment*. Poster presented at the 2000 Annual Meeting of the Society for Judgment and Decision Making, New Orleans, USA.

19. Mandel, D.R. (May, 2001). *Associations and dissociations across the three Cs: Counterfactual, causal, and contingency judgments*. Paper presented at the European Association of Experimental Social Psychology Small Group Meeting on Counterfactual Thinking, Aix-en-Provence, France [abstract in *European Bulletin of Social Psychology*, 13, 76.]

20. Mandel, D.R. (April, 2002). *Example-based teaching: Implication for honing students' critical thinking skills*. Paper presented at the Conference on Exploring Teaching as a Scholarly Activity, Learning and Teaching Centre, University of Victoria, Victoria, Canada.
21. Mandel, D.R. (May, 2002). *Effect of framing and representativeness thinking on binomial probability judgment*. Poster presented at the Twelfth Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Vancouver, Canada.
22. Mandel, D.R. (June, 2002). *Dissociations among causal, counterfactual, and probability judgments*. Paper presented at the 13th General Meeting of the European Association of Experimental Social Psychology, San Sebastian, Spain.
23. Mandel, D.R. (June, 2002). *Frames, representation, and choice: How irrational are we really?* Poster presented at the 13th General Meeting of the European Association of Experimental Social Psychology, San Sebastian, Spain.
24. Mandel, D.R. (July, 2002). *Framing, rappresentazioni, scelte: Quanto siamo irrazionali in realta?* [Frames, representation, and choice: How irrational are we really?]. Colloquium presented to the Associazione di Psicologia Cognitiva, Rome, Italy.
25. Mandel, D.R. (November, 2002). *Frames, representations, and choice: How irrational are we really?* Poster presented at the 2002 Annual Meeting of the Society for Judgment and Decision Making, Kansas City, MO, USA.
26. Dhimi, M.K., & Mandel, D.R. (November, 2002). *Consumer preferences for discount policies*. Poster presented at the 2002 Annual Meeting of the Society for Judgment and Decision Making, Kansas City, MO, USA.
27. Villejoubert, G., & Mandel, D.R. (November, 2002). *The representativeness heuristic: An instance of the inverse fallacy?* Paper presented at the 2002 Annual Meeting of the Society for Judgment and Decision Making, Kansas City, MO, USA.
28. Mandel, D.R. (February, 2003). *Judgment dissociation theory: An analysis of differences in causal, counterfactual, and covariational reasoning*. Invited Lecture presented to the Instituto Superior de Psicologia Aplicada, Lisbon, Portugal.
29. Dhimi, M.K., & Mandel, D.R. (August, 2003). *A decomposition of risk across domains*. Paper presented at the 19th Biannual Conference on Subjective Probability, Utility, and Decision Making, Zurich, Switzerland.
30. Dhimi, M.K., Mandel, D.R., & Lees, S. (August, 2003). *Post-adoption services: An evaluation of usage, satisfaction, and effectiveness*. Paper presented at the 29th Annual Conference of the North American Council of Adoptable Children, Vancouver, Canada.
31. Mandel, D.R. (August, 2003). *Causal, counterfactual, and covariational judgment: An analysis of differences in reasoning*. Paper presented at the 19th Biannual Conference on Subjective Probability, Utility, and Decision Making, Zurich, Switzerland.

32. Mandel, D.R. (August, 2003). Reframing, representation, and rational choice: A pragmatic reading of the evidence. Paper presented in C.R.M. McKenzie (Chair) "Rethinking framing effects," symposium, The 19th Biannual Conference on Subjective Probability, Utility, and Decision Making, Zurich, Switzerland.
33. Dhami, M.K., & Mandel, D.R. (November, 2003). *Effects of counterfactual thinking on prisoners' judgments of blame and fairness*. Poster presented at the 2003 Annual Meeting of the Society for Judgment and Decision Making, Vancouver, B.C., Canada.
34. Mandel, D.R. (November, 2003). *From unpacking to refocusing: Frames, evidential support, and probability judgment*. Poster presented at the 2003 Annual Meeting of the Society for Judgment and Decision Making, Vancouver, B.C., Canada.
35. Ball, R., & Mandel, D.R. (May, 2004). *Health-message framing and cigarette smoking*. Poster presented at the 6th Annual Meeting of North-West Cognition and Memory, Victoria, B.C., Canada.
36. Hase, S., Mandel, D.R., & Masson, M.E.J. (May, 2004). *Effectiveness of training in Bayesian inference on accuracy of posterior probability judgment*. Poster presented at the 6th Annual Meeting of North-West Cognition and Memory, Victoria, Canada.
37. Mandel, D.R., & Dhami, M.K. (May, 2004). *Escape from reality: Effects of counterfactual thinking on judgments of blame and fairness and feelings of guilt and anger in prisoners*. Hot topics paper presented at the 16th annual Convention of the American Psychological Society, Chicago, IL, USA, May, 2004.
38. Mandel, D.R. (November, 2004). *Forecasting the risk of a terrorist attack: The effects of unpacking and refocusing*. Poster presented at the Society for Judgment and Decision Making 2004 Annual Conference, Minneapolis, MN, USA.
39. Mandel, D.R. (April, 2005). *Forecasting the risk of a terrorist attack: The effects of unpacking and refocusing*. Paper presented at the Southern Ontario Behavioural Decision Research Conference, Waterloo, Ontario, Canada.
40. Mandel, D.R. (April, 2005). *The role of coherence in the perception and assessment of risk*. Invited paper presented at the Annual S&T Symposium "Disruptive S&T concepts for the new military," Ottawa, Ontario, Canada.
41. Smith, D., Baranski, J.V., Duncan, M., & Mandel, D.R. (April, 2005). *The influence of pre-versus post-decisional advice*. Paper presented at the Southern Ontario Behavioural Decision Research Conference, Waterloo, Ontario, Canada.
42. Mandel, D.R. (July, 2005). *Forecasting the risk of a terrorist attack: The effects of unpacking and refocusing*. Paper presented at the International Society for Political Psychology 2005 Scientific Meeting, Toronto, Ontario, Canada.
43. Mandel, D.R., & Dhami, M.K. (July, 2005). *Escape from reality: Effects of counterfactual thinking on judgments of blame and fairness and feelings of guilt and anger in prisoners*. Paper presented at P. Catellani, D.J. Hilton, & D.R. Mandel (Chairs) "Counterfactual

thinking and causal attribution" symposium, The 14th General Meeting of the European Association for Experimental Social Psychology, Würzburg, Germany.

44. Smith, D., Baranski, J.V., Duncan, M., & Mandel, D.R. (July, 2005). *The influence of pre-versus post-decisional advice*. Poster presented at the Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Montreal, Quebec, Canada.

45. Dhami, M.K., Mandel, D.R., Loewenstein, G., & Ayton, P. (August, 2005). Positive illusions: Prisoners' forecasts of their post-release success. Paper presented at M.K. Dhami (Chair) "*Judgment and decision making in criminal justice*" symposium, The 20th Research Conference on Subjective Probability, Utility, and Decision Making (SPUDM20), Stockholm, Sweden.

46. Mandel, D.R., & Dhami, M.K. (August, 2005). Prisoners' judgments of blame and fairness: Effects of counterfactual thinking. Paper presented at M.K. Dhami (Chair) "*Judgment and decision making in criminal justice*" symposium, The 20th Research Conference on Subjective Probability, Utility, and Decision Making (SPUDM20), Stockholm, Sweden.

47. Villejoubert, G., Kornbrot, D.E., Mandel, D.R., & Schmeer, S. (August, 2005). *Who uses the representative heuristic?* Paper presented at the 20th Research Conference on Subjective Probability, Utility, and Decision Making (SPUDM20), Stockholm, Sweden.

48. Dhami, M.K., Mandel, D.R., Loewenstein, G., & Ayton, P. (November, 2005). Prisoners' positive illusions of their post-release success. Paper presented at "*Re-entry: Ex-prisoner experiences and expectations*" symposium, The 2005 Conference of the American Society of Criminology, Toronto, Ontario, Canada.

49. Mandel, D.R., & Dhami, M.K. (November, 2005). *Judgments of fairness, anger and counterfactual thinking in prisoners*. Poster presented at the 2005 Annual Meeting of the Society for Judgment and Decision Making, Toronto, Ontario, Canada.

50. Mandel, D.R. (November, 2005). *Managing asymmetric threats in a JIMP environment*. Poster presented at Defence Security Innovation, Quebec City, Quebec, Canada.

51. Smith, D., Baranski, J.V., Duncan, M., & Mandel, D.R. (November, 2005). *The influence of pre- versus post-decisional advice*. Poster presented at the 46th Annual Meeting of the Psychonomic Society, Toronto, Ontario, Canada.

52. Mandel, D.R., & Dhami, M.K. (March, 2006). Effect of counterfactual thinking on guilt and anger in prisoners: Mediation by judgments of blame and fairness. Paper presented at R. Weiner (Chair) "*The social cognition of legal decision making: Rationality, attribution, emotion and counterfactual thinking*" symposium, American Psychology-Law Annual Conference, St. Petersburg, FL, USA.

53. Mandel, D.R. (May, 2006). *Violations of coherence in subjective probability: A representational-assessment-processes (RAP) account*. Paper presented at the 2006 Southern Ontario Behavioral Decision Research Conference, Toronto, Ontario, Canada.

54. Vartanian, O., & Mandel, D.R. (May, 2006). *Cue weighting in causal judgment: A test of the positive-test-confirmation-biases (PCB) account*. Paper presented at the Southern Ontario Behavioral Decision Research Conference, Toronto, Ontario, Canada.

55. Mandel, D.R. (June, 2006). *Violations of coherence in subjective probability: A representational-assessment-processes account*. The 2006 Annual Conference of the Institute for Operations Research and the Management Sciences, Hong Kong, China.

56. Mandel, D.R., Vartanian, O., Thomson, M., & Adams, B. (July, 2006). Effect of victim pleas on United Nations military observer trainees' negotiated responses to a human rights violation: A field experiment. Paper presented at the "Conflict Resolution and Humanitarian Assistance" Symposium of the International Society for Political Psychology 2006 Scientific Meeting, Barcelona, Spain.

57. Mandel, D.R. (November, 2006). *Instigators as radicalizing factors*. Paper presented at the North Atlantic Treaty Organization Human Factors & Medicine Panel Research Task Group Meeting HFM-140/RTG on Psychosocial, Organizational and Cultural Aspects of Terrorism, NATO Defence College, Rome, Italy.

58. Mandel, D.R., & Vartanian, O. (December, 2006). *Security v. rights: Effects of emotion and target primes on political judgment*. Paper presented at the Affect, Motivation, and Decision Making Conference, Ein Boqueq, Israel.

59. Mandel, D.R. (January, 2007). Coherent risk analysis. Invited paper presented at the Office of the Director of National Intelligence Conference "Improving Intelligence Analysis: What Works? How Can We Tell? Lessons from Outside the Intelligence Community," Chantilly, Virginia, U.S.A.

60. Mandel, D.R. (May, 2007). *Techniques for examining the thinking of influential figures*. Paper presented at the North Atlantic Treaty Organization Human Factors & Medicine Panel Research Task Group Meeting HFM-140/RTG on Psychosocial, Organizational and Cultural Aspects of Terrorism, Sofia, Bulgaria.

61. Dhami, M.K., & Mandel, D.R. (July, 2007). *Trial by judge or jury: Calculation or gamble?* Paper presented at the Joint Annual Meeting of the Law and Society Association and the Research Committee on Sociology of Law, Berlin, Germany.

62. Dhami, M.K., & Mandel, D.R. (July, 2007). *Choice under risk and uncertainty: Mode of trial*. Paper presented at the European Conference on Legal Studies, Berlin, Germany.

63. Dhami, M.K., & Mandel, D.R. (August, 2007). *Are additive probability estimators likely to be utility maximizers?* Paper presented at the 21st Conference on Subjective Probability, Utility and Decision Making, Warsaw, Poland.

64. Mandel, D.R. (November, 2007). *Emotion, risk and compliance with safety information in human-made and natural disasters*. Paper presented at the North Atlantic Treaty Organization Human Factors & Medicine Panel Research Task Group Meeting HFM-140/RTG on Psychosocial, Organizational and Cultural Aspects of Terrorism, Brussels, Belgium.

65. Mandel, D.R. (November, 2007). *Assessment and communication of risks to national security: Understanding human capabilities and limitations*. Invited paper presented at Defense Security Innovation 2007, Quebec City, Quebec.
66. Mandel, D.R. (December, 2007). *What if?, How come!?: Judgments that relate, also dissociate*. Invited paper presented at What If?, So What!: Interdisciplinary Approaches to Counterfactual Reasoning 2007 Congress, Faculty of Philosophy, Erasmus University of Rotterdam, Rotterdam, The Netherlands.
67. Mandel, D.R. (December, 2007). *Counterfactual and causal explanation: From early theoretical views to new frontiers*. Invited paper presented at Understanding Counterfactuals/Understanding Causation Workshop, Department of Philosophy, University of Warwick, Warwick, U.K.
68. Mandel, D.R. (March, 2008). Psychological perspectives on terrorism and radicalization. Paper presented The North Atlantic Treaty Organization Advanced Research Workshop "Indigenous Terrorism: Understanding and Addressing the Root Causes of Radicalisation among Groups with an Immigrant Heritage in Europe," Budapest, Hungary.
69. Mandel, D.R., & Vartanian, O. (May, 2008). *Security vs. rights: effects of emotion and political orientation on political judgment*. Paper presented at the 2008 Southern Ontario Behavioural Decision Research Conference, Waterloo, Ontario.
70. Mandel, D.R., Vartanian, O., & Ferriday, C. (May, 2008). *Decomposing the person-impersonal distinction in moral decision making*. Poster presented at the 2008 Southern Ontario Behavioural Decision Research Conference, Waterloo, Ontario.
71. Mandel, D.R., Vartanian, O., & Blackler, K. (May, 2008). *Consequential conditionals: when liking determines likelihood*. Poster presented at the 2008 Southern Ontario Behavioural Decision Research Conference, Waterloo, Ontario.
72. Mandel, D.R. (June, 2008). *Psychosocial factors in risk communication*. Invited paper presented at the Senior Officials Meeting of the Global Health and Security Action Group, Ottawa, Ontario.
73. Dhami, M.K., & Mandel, D.R. (July, 2008). *Mode of trial: rational judgment and choice in an uncertain world*. Paper presented at the European Conference on Psychology and Law, Maastricht, The Netherlands.
74. Mandel, D.R., & Vartanian, O. (August, 2008). *Weighting of contingency information in causal judgment: Evidence of hypothesis dependence and use of a positive-test strategy*. Paper presented at the 6th International Conference on Thinking, Venice, Italy.
75. Mandel, D.R. *Violations of coherence in subjective probability: A representational and assessment processes account*. Poster presented at the 6th International Conference on Thinking, Venice, Italy.

76. Vartanian, O., & Mandel, D.R. (August, 2008). *When liking is believing: consequential conditionals as a framework for communicating government policy*. Poster presented at the 6th International Conference on Thinking, Venice, Italy.
77. Dhami, M.K., & Mandel, D.R. (August, 2008). *Rationality in judgment and choice: Evidence of additive probability estimation and utility maximization*. Poster presented at the 6th International Conference on Thinking, Venice, Italy.
78. Mandel, D.R., & Williams, J.J. (August, 2008). *The cost of economy of expression: Failure to explicate the alternative hypothesis in queries increases bias in probability judgment*. Poster presented at the 6th International Conference on Thinking, Venice, Italy.
79. Mandel, D.R. *et al.* (November, 2008). A calibration study of an intelligence assessment division. Paper presented in the panel on "*Intelligence Analysis*" (D.R. Mandel, Chair), Inter-University Seminar on Armed Forces and Society Canada Region Conference, Kingston, Ontario.
80. McLellan, L., Derbentseva, N., Mandel, D.R., & Pavlovic, N. (November, 2008). An initial investigation of cognitive challenges in intelligence analysis. Paper presented in the panel on "*Intelligence Analysis*" (D.R. Mandel, Chair), Inter-University Seminar on Armed Forces and Society Canada Region Conference, Kingston, Ontario.
81. Derbentseva, N., McLellan, L., Mandel, D.R., & Pavlovic, N. (November, 2008). Organizational issues in Canadian intelligence community: Managers' perspective. Paper presented in the panel on "*Intelligence Analysis*" (D.R. Mandel, Chair), Inter-University Seminar on Armed Forces and Society Canada Region Conference, Kingston, Ontario.
82. Vartanian, O., & Mandel, D.R. (November, 2008). Relations define actions: Asymmetric judgments of intent in international relations. Paper presented in the panel on "*Adversarial Intent*" (C. McCann, Chair), Inter-University Seminar on Armed Forces and Society Canada Region Conference, Kingston, Ontario.
83. Bruine de Bruin, W., Fischhoff, B., Downs, J.S., Florig, H.K., Stone, E.R., & Mandel, D.R. (November, 2008). Examining unintended consequences of risk communications that evoke fear--a bi-national study. Poster presented at the 2008 Annual Meeting of the Society for Judgment and Decision Making, Chicago, Illinois, U.S.A.

Manuscripts under Review or in Revision

- Mandel, D. R. & Vartanian, O. Bush v. Bin Laden: Moderation of the effect of emotion on threat perception by the threat agent.
- Vartanian, O., & Mandel, D. R. Imputing intent in international relations: It matters whether states are friends or foes.
- Vartanian, O., & Mandel, D. R. Neural bases of judgment and decision making.
- Vartanian, O., Mandel, D. R., & Duncan, M. Money or life: Context effects on risky choice.
- Bruine de Bruin, W., Fischhoff, B., Downs, J. S., Florig, H. K., Stone, E. R., Mandel, D. R., & Lerner, J. S. When the communication itself evokes fear: Unintended effects on cognitive responses.
- Kamleitner, B., Dhami, M. K., & Mandel, D. R. Risky discounts: Do people prefer them per

item or per purchase?

Mandel, D. R. Mental simulation and the nexus of causal and counterfactual explanation.

Mandel, D. R. Predicting blame assignment in a case of harm caused by negligence.

Dhami, M. K., & Mandel, D. R. Gains loom larger than losses in forecasted risk taking.

Dhami, M. K., Mandel, D. R., & Garcia-Retamero, R. Mixing alcohol and driving: Youth's perceived benefits and drawbacks of taking the risk.

Dhami, M. K., & Mandel, D. R. Expressions of rationality in defendants' choice of trial court.

Mandel, D. R., Vartanian, O., Adams, B. D., & Thomson, M. H. Performance of UN military observer teams: Does victim proximity escalate commitment to saving lives?

Books in Preparation

Vartanian, O., & Mandel, D. R. (Eds.) *Neuroscience of decision making* [in the "Contemporary Approaches in Cognitive Neuroscience" series]. New York: Psychology Press.

Research and Organizational Support

External funding

Principal Investigator, Social Sciences and Humanities Research Council of Canada Postdoctoral Research Grant (Grant supplement to SSHRC Postdoctoral Fellowship), \$5,000, 1996-1998.

Co-Investigator, Natural Sciences and Engineering Research Council of Canada Team Research Grant #95-3054 (Project: *Integration strategies in causal reasoning*), \$45,000, 1996-2001.

Applicant, British Academy, Visiting Professor Grant (Project: Funded the two-month visit of Dr. Ahogni N'gbala to collaborate on counterfactual thinking research), £3,000, 2000.

Principal Investigator, Economic and Social Research Council Research Grant (Project: *Contingency information integration in causal judgment*), £32,000. (Declined upon acceptance of position at University of Victoria), 2001.

Applicant, European Association of Experimental Social Psychology Conference Grant (Project: Small Group Meeting on Counterfactual Thinking, Aix-en-Provence, France), €3,000, 2001.

Principal Investigator, Canadian Institutes of Health Research Institutional Development Grant (Project: *Effects of message framing on health-promoting behavior*), \$4,900, 2001-2002.

Principal Investigator, The Queen Alexandra Foundation for Children Research Grant (Project: *Evaluation of post-adoption services and investigation into causes of youth risk behaviour*), \$8,400, 2002-2004.

Principal Investigator, Natural Sciences and Engineering Research Council of Canada Discovery Grant #249537-2002 (Project: *Information integration in causal judgment*), \$100,000, 2002-2007.

Principal Investigator, Natural Sciences and Engineering Research Council of Canada Discovery Grant #249537-2007 (Project: *Coherence of probability and contingency judgments*), \$91,000, 2007-2012.

Internal funding

- University of Victoria Research Startup Grant, \$30,000, 2001.
- University of Victoria Personal Computer Enhancement Fund (Project: Purchase of laptop computer for research purposes), \$1,300, 2001.
- University of Victoria Scholarly Conference and Artistic Performance Travel Grant Award (Project: Presentation at the 13th General Meeting of the European Association for Experimental Social Psychology, San Sebastian, Spain), \$1,350, 2002.
- Principal Investigator, University of Victoria Learning and Teaching Centre Development Grant (Project: Example-based Teaching in Research Methods and Reasoning Skill), \$4,500, 2002-2004.
- Principal Investigator, University of Victoria Internal Research Grant (Project: *Prediction of Risky Behaviour and Risk Taking Intentions in Young Adults*), \$4,000, 2003-2004.
- University of Victoria Scholarly Conference and Artistic Performance Travel Grant Award (Project: Presentation at the 19th Biannual Conference on Subjective Probability, Utility, and Decision Making, Zurich, Switzerland), \$1,350, 2003.
- University of Victoria Scholarly Conference and Artistic Performance Travel Grant Award (Project: Presentation at the 16th annual Convention of the American Psychological Society, Chicago, IL, USA), \$1,350, 2004.
- Principal Investigator, Department of National Defence Technology Investment Fund #15dz01 (Project: *Understanding and Prediction of Adversarial Intent*), \$750,000, 2007-2010 (3 fiscal years).
- Principal Investigator, Department of National Defence Applied Research Program #15dm (Project: *Understanding and Augmenting Human Analytic Capabilities*), \$950,000, 2008-2012 (4 fiscal years).

Organizational Positions

- Member, Organizing Committee, Community of Interest on the Practice and Organization of Intelligence (COI POI) Ottawa (Meech Lake) Roundtable on "*What Can the Cognitive and Behavioral Sciences Contribute to Intelligence Analysis? Towards a Collaborative Agenda for the Future*," Meech Lake, Quebec, February 2009.
- Member, NATO Human Factors and Medicine Panel Technical Team (HFM-140) on *Psychosocial, Organizational, and Cultural Aspects of Terrorism*, 2006-2009.
- Member, Organizing Committee, Canada-Netherlands-Sweden Trilateral Meeting on Risk Assessment, 2006.
- Member, Organizing Committee, Risk Assessment Methodology Study Workshop, Public Security Technical Program (Systems Integration, Standards, and Analysis Area), 2006.
- Member, NATO Human Factors and Medicine Panel Exploratory Team (ET-061) on *Psychosocial, Organizational, and Cultural Aspects of Terrorism*, 2005-2006.
- Co-chair, Counterfactual Thinking and Causal Attribution Symposium, The 14th General Meeting of the European Association for Experimental Social Psychology, Würzburg, Germany, July, 2005.
- Review Committee Member, Biobehavioral and Biobehavioral Processes 4 Study Section (Cognition & Perception), Center for Scientific Review, National Institutes of Health, Washington, D.C., U.S.A., June, 2003.
- Review Committee Member, Biobehavioral and Biobehavioral Processes 4 Study Section (Cognition & Perception), Center for Scientific Review, National Institutes of Health, Washington, D.C., U.S.A., June, 2003.

Health, Washington, D.C., U.S.A., October, 2002.
 Director, Colloquium Series, Department of Psychology, University of Victoria, July 2002-
 August 2004.
 Member, Graduate Executive Committee, Department of Psychology, University of
 Victoria, August 2001-August 2004.
 Director, Colloquium Series, Department of Psychology, University of Hertfordshire,
 August 2000-June 2001.
 Principal Organizer, European Association of Experimental Social Psychology Small Group
 Meeting on Counterfactual Thinking, Aix-en-Provence, France, May, 2001.

Editorial and Reviewer Positions

Editorial

Consulting Editor, *Analyses of Social Issues and Public Policy*, 2003-2007.
 Lead Editor (with M.K. Dhimi), Special Issue of *Analyses of Social Issues and Public Policy*
 on "Psychological Perspectives on Threats to Democracy," 2005.

Reviewing for funding agencies

Department of National Defence, Academic Research Programme (Canada), 2005.
 Economic and Social Research Council (U.K.), 2000, 2001.
 Israel Science Foundation, 2004, 2005, 2006.
 Natural Sciences and Engineering Research Council of Canada, 2003, 2004, 2005, 2007,
 2008.
 National Science Foundation (U.S.A.), 2004, 2005.
 South African National Research Foundation, 2003.

Reviewing for journals

Acta Psychologica
Aggressive Behavior
Aging, Neuropsychology, and Cognition
Analyses of Social Issues and Public Policy
Applied Cognitive Psychology
Basic and Applied Social Psychology
British Journal of Social Psychology
Canadian Journal of Experimental Psychology
Cognitive Psychology
Cognitive Science
Current Psychology Letters: Behaviour, Brain, & Cognition
European Journal of Social Psychology
Experimental Psychology
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Learning, Memory, and Cognition
Journal of Experimental Social Psychology
Journal of Memory and Language
Journal of Peace Research
Journal of Personality and Social Psychology

Judgment and Decision Making
Memory & Cognition
Organizational Behavior and Human Decision Processes
Personality and Social Psychology Bulletin
Personality and Social Psychology Review
Philosophical Psychology
Philosophy of the Social Sciences
Psychological Science
Quarterly Journal of Experimental Psychology
Social Behavior and Personality
Social Cognition
Thinking & Reasoning
Trends in Cognitive Sciences

Reviewing for book publishers

Thompson Learning, July, 2000 (draft of text on judgment and decision making).
 Prentice-Hall, January, 2002 (Aronson et al., *Social Psychology*, Canadian Edition, 2nd ed.).
 Prentice-Hall, January, 2003. (Aronson et al., *Social Psychology*, Canadian Edition, 3rd ed.).

Scientific authority on contractor reports

1. Humansystems Inc. [Dr. Barb Adams, PI], *Moral and Ethical Decision Making in United Nations Military Observer Operations Field Experiment*, January 2007, DRDC Toronto Contractor Report CR-2007-012.
2. NTT Systems Inc. [Mr. Marc Gruscow, PI], *Gambling Task – fMRI Version - Users' Manual*, March 2007, DRDC Toronto Contractor Report CR-2007-122.
3. Humansystems Inc. [Dr. Barb Adams, PI], *Interoperable Risk Management in a Joint Interagency Multinational Environment*, September 2007, DRDC Toronto Contractor Report CR-2007-068.
4. Carnegie Mellon University [Prof. Baruch Fischhoff, PI], *Understanding Public Responses to Domestic Threats*, September 2007, DRDC Toronto Contractor Report CR-2007-111.
5. Humansystems Inc. [Dr. Barb Adams, PI], *Tactical Effects of Crowd Confrontation Systems: Literature Review*, November, 2008, DRDC Toronto Contractor Report CR-2008-225.
6. Humansystems Inc. [Dr. Barb Adams, PI], *Tactical Effects of Crowd Confrontation Systems: Research Agenda*, November, 2008, DRDC Toronto Contractor Report CR2008-226.

Consultancy

Ethics Advisor and Monitor, Granada Television (Program Series: "The Human Zoo"), London, U.K., 1999.
 Consultant, BBC Television (Program: Human Rights, Human Wrongs), London, U.K. 2000.

Professional Affiliations

Member, Association for Psychological Science, 2003-present.

Associate, Behavioral and Brain Sciences, 2000-present.
 Member, Canadian Association of Professional Intelligence Analysts (CAPIA), 2008-present.
 Member, European Association for Decision Making, 2000-present.
 Affiliate, European Association for Experimental Social Psychology, 1999-2008.
 Member, International Society for Political Psychology, 2005-present.
 Member, Just War Theory Project, Academic Council of the United Nations System (ACUNS), 2008-present.
 Inductee, Psi Chi Honor Society for Psychology, 2002.
 Member, Society for Judgment and Decision Making, 2002-present.
 Member, Society for Personality and Social Psychology (APA Division 8), 1993-present.
 Member, Society for the Psychological Study of Social Issues (APA Division 9), 1993-present.

Courses Taught

Defence and Security

Judgment and Decision Making for the Intelligence Community, Intelligence Assessment Learning Program, Privy Council Office, 2008.
 Risk Management in Operational Planning, Advanced Military Studies Program, Canadian Forces College, 2007.

Undergraduate

Judgment and Decision Making
 Research Methods in Psychology
 Survey of Social Psychology

Graduate

Topics in Judgment and Decision Making Research
 Methods in Judgment and Decision Making Research
 Social Cognition

Supervision

Undergraduate honours theses

Joseph Williams, University of Toronto, 2007.
 From 1998-2004, I have supervised the thesis research of 14 Honours students.

Graduate and post-doctoral supervision

Natalia Derbentseva, NSERC VF Postdoctoral Research Fellow, DRDC Toronto, April 2008-present.
 Jamie Marcus, Federal Student Work Experience Program, DRDC Toronto, May 2008 – September 2008.
 Oshin Vartanian, NSERC VF Postdoctoral Research Fellow, DRDC Toronto, August 2005-

April 2007.

Sharon Livingstone, M.A. candidate in Experimental Neuropsychology program, University of Victoria, September 2003-August 2004.

Russell Ball, M.A. candidate in Social Psychology Program, University of Victoria, September 2002-August 2004.

Shurin Hase, M.A. candidate in Cognitive Psychology Program, University of Victoria, September 2002- August 2004.

Helen Fagerholm, M.A. student on exchange program, University of Victoria, September 2001-June, 2002

Gaelle Villejoubert, Ph.D. candidate in Psychology, University of Hertfordshire, December 1998-June 2001.

Graduate committees

Karen Souza (Member, Thesis Committee), 2003-04.

Leora Dahl (Member, Thesis Committee), 2002-03.

Matthew Bera (Chair, M.A. Examination Committee, Dept. of History), 2002.

Iris van Rooij (Member, Comprehensive Examination Committee), 2001-02.

Yuko Heath (Member, Comprehensive Examination Committee), 2001-02.

Yuko Heath (Member, Dissertation Committee), 2001-03.

References

Professor Baruch Fischhoff
 Howard Heinz University Professor
 Department of Social & Decision Sciences
 Carnegie Mellon University
 208 Porter Hall
 Pittsburgh, PA 15213, U.S.A.
 Phone: (412) 268-3246; Fax: (412) 268-6938; E-mail: baruch@cmu.edu

Professor Peter Suedfeld
 Dean Emeritus of Graduate Studies and Professor Emeritus of Psychology
 Department of Psychology
 The University of British Columbia
 2136 West Mall
 Vancouver, BC, V6T 1Z4, Canada
 Phone: (604) 822-5713; Fax: (604) 822-6923; E-mail: psuedfeld@psych.ubc.ca

Professor Philip E. Tetlock
 Lorraine Tyson Mitchell Chair II in Leadership and Communication and Professor of Leadership
 Haas School of Business
 University of California--Berkeley
 1885 Neil Avenue
 Berkeley, California 94720-1900, U.S.A.
 Phone: (510) 642-2571; Fax: (510) 643-1412; Email: Tetlock@haas.berkeley.edu