

## **BARUCH FISCHHOFF**

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Born: April 21, 1946, Detroit, Michigan

### **Education**

- 1967 B.Sc. (Mathematics, Psychology) *magna cum laude*, Wayne State University (Samuel Komorita, advisor)
- 1967-1970 Kibbutz Gal-On and Kibbutz Lahav, Israel
- 1972 M.A. (Psychology) with distinction, The Hebrew University of Jerusalem
- 1975 Ph.D. (Psychology), The Hebrew University of Jerusalem (Amos Tversky, Daniel Kahneman, advisors)

### **Positions**

- 1970-1974 Instructor, Department of Behavioral Sciences, University of the Negev
- 1971-1972 Research Assistant (to Daniel Kahneman), The Hebrew University of Jerusalem, Israel
- 1973-1974 Methodological Advisor and Instructor, Paul Baerwald School of Social Work, MSW Program in Social Work Research, The Hebrew University of Jerusalem
- 1974-1976 Research Associate, Oregon Research Institute, Eugene, Oregon
- 1975-1987 Visiting Assistant Professor, Dept. of Psychology, University of Oregon, 1975-1980; Visiting Associate Professor, 1980-1987
- 1976-1987 Research Associate, Decision Research, a branch of Perceptronics, Eugene, Oregon
- 1981-1982 Visiting Scientist, Medical Research Council/Applied Psychology Unit, Cambridge, England
- 1982-1983 Visiting Scientist, Department of Psychology, University of Stockholm
- 1984-1990 Research Associate, Eugene Research Institute, Eugene, Oregon
- 1987- Howard Heinz University Professor of Engineering and Public Policy and of Social and Decision Sciences (until 2016) and of Strategy and Politics (since 2016), Carnegie Mellon University

## **Selected Awards and Honors**

- 1964-1967 Wayne State University Undergraduate Scholarship
- 1966-1967 NSF Undergraduate Research Grant (under Samuel Komorita)
- 1967 Phi Beta Kappa
- 1969-1974 The Hebrew University of Jerusalem Lady Davis Graduate Fellowships
- 1980 American Psychological Association Distinguished Scientific Award for Early Career Contribution to Psychology
- 1985 Harold D. Lasswell Prize for paper of year in *Policy Sciences*. [For B. Fischhoff, S. Watson & C. Hope. (1984). Defining risk. *Policy Sciences*, 17, 123-139.]
- 1985 Ida Beam Honorary Professor, University of Iowa
- 1987 Alpha Kappa Psi - Spangler Award for literature contribution having a ten-year impact in the field of risk and insurance.
- 1989 *The Best of Psychology Today* [for B. Fischhoff (1975). Hindsight: Thinking Backwards? *Psychology Today*, 8, 4].
- 1990 American Psychological Association Award for Distinguished Early Career Contribution to Psychology in the Public Interest
- 1990 President, Society for Judgment and Decision Making [Member of Board 1989-1992]
- 1991 Society for Risk Analysis, Distinguished Achievement Award
- 1992 Citation Classic. Institute for Scientific Information [For Fischhoff, B. (1975). Hindsight ≠ foresight: The effect of outcome knowledge on judgment under uncertainty]
- 1992 Fellow, Society for Risk Analysis
- 1993 Member, National Academy of Medicine (formerly Institute of Medicine)
- 1994 Fellow, American Psychological Association, Division of Experiment Psychology
- 1998 University Professor
- 2001 Arnold M. Small Lecture in Safety, Human Factors and Ergonomics Society
- 2002 Howard Heinz University Professor of Humanities and Social Sciences
- 2003 Fellow, Association for Psychological Science (formerly American Psychological Society)
- 2003-2009 Member, Science Advisory Board, Environmental Protection Agency

2005-2009 Chair, Environmental Protection Agency Homeland Security Advisory Committee

2003 President, Society for Risk Analysis [Member of Council, 2003- 2006]

2004-2009 Member, Science and Technology Advisory Committee, Department of Homeland Security

2006 G. William Morgan Memorial Lecture, Health Physics Society.

2007 Godfrey Hochbaum Distinguished Lecture. University of North Carolina.

2007 Frank Parker Distinguished Lecture. Vanderbilt University

2007-2011 Chair, Food and Drug Administration Risk Communication Advisory Committee

2009-2011 Chair, National Research Council Committee on Social and Behavioral Science Research to Improve Intelligence Analysis for National Security

2010 George Sager Memorial Lecture. Maine Medical Center

2010 Fellow, Society of Experimental Psychologists

2011 George J. Mitchell Lecture on Sustainability, University of Maine

2011-2017 Co-Chair, National Academy of Sciences Colloquia, "The Science of Science Communication" I (2012), II (2014), and III (2017).

2012-2017 Co-Chair, National Research Council Committee on Future Research Goals and Directions for Foundational Science in Cybersecurity

2013 Teale Lecture. University of Connecticut

2013-2014 Co-Chair, Institute of Medicine Workshop on Characterizing and Communicating Uncertainty in the Assessment of Benefits and Risks of Pharmaceutical Products

2015 Osher Fellow. Exploratorium. San Francisco

2016 National Science Foundation. Distinguished Lecturer in the Social Behavioral and Economics Directorate.

2017 Member, National Academy of Sciences

2017 Lund University, Doctorate of Humanities, *honoris causa*

2017 American Psychological Association Award for Distinguished Service to Psychological Science

2018 Ryan Award for Meritorious Teaching, Carnegie Mellon University

2018 Andrew Carnegie Fellow, Carnegie Corporation of New York

2021 Sigma Xi William Procter Prize for Scientific Achievement

- 2022 Fellow, American Association for the Advancement of Science
- 2022 College of Engineering Outstanding Mentoring Award, Carnegie Mellon University
- 2023 Clarendon Lectures, University of Oxford Said Business School
- 2023 Anne Anatasi Lecture, Fordham University
- 2024 Rachel Carson Distinguished Lecture, Michigan State University

### Thesis and Dissertation

- 1972 Subjective probability: A judgment of coherence? Unpublished MA thesis (Advisor: Daniel Kahneman), The Hebrew University of Jerusalem
- 1975 Aspects of historical judgment: Effects of temporal setting and outcome knowledge on judgment under uncertainty. Unpublished PhD dissertation (Advisor: Amos Tversky), The Hebrew University of Jerusalem

### Books

- Fischhoff, B. (2011). *Judgment and decision making*. Oxford: Routledge/Earthscan.
- Fischhoff, B. (2011). *Risk analysis and behavioral research*. Oxford: Routledge/Earthscan.
- Fischhoff, B., Brewer, N., & Downs, J.S. (eds.). (2011). *Communicating risks and benefits: An evidence-based user's guide*. Washington, DC: Food and Drug Administration. In Japanese (Tokyo, Maruzen, 2015).  
<http://www.fda.gov/AboutFDA/ReportsManualsForms/Reports/ucm268078.htm>
- Fischhoff, B., & Chauvin, C. (eds.). (2011). *Intelligence analysis: Behavioral and social science foundations*. Washington, DC: National Academy Press. <http://www.nap.edu/catalog/13062/>.
- Fischhoff, B., & Kadvany, J. (2011). *Risk: A very short introduction*. Oxford: Oxford University Press. In Swedish as *Kort om risk* (Stockholm: Fri Tanke, 2012). In Spanish as *Riesgo. Una breve introducción*. (Madrid: Alianza, 2013). In Japanese as *Decision making in risk and uncertainty* (Tokyo: Maruzen, 2015). In Russian (Moscow: Delo, forthcoming).
- Fischhoff, B., Kotovsky, K., Tuma, H. & Bielak, J. (eds.) (1993). *A two-state solution in the Middle East: Prospects & possibilities*. Pittsburgh: Carnegie Mellon University Press.
- Fischhoff, B., Lichtenstein, S., Slovic, P., Derby, S. L. & Keeney, R. L. (1981). *Acceptable risk*. New York: Cambridge University Press. In Chinese, Peking University Press, 2009. Also appeared as *Approaches to acceptable risk*. NUREG/CR-1614. Washington, DC: Nuclear Regulatory Commission, 1980.
- Fischhoff, B., & Manski, C. (eds.). (1999). *The elicitation of preferences*. Boston: Kluwer. Also special (triple) issue of *Journal of Risk and Uncertainty*, 19(1-3).
- Fischhoff, B., & Scheufele, D. (eds.). (2013). *The Science of Science Communication. Proceedings of the National Academy of Sciences*, 110 (supplement 3).

[http://www.pnas.org/content/110/Supplement\\_3](http://www.pnas.org/content/110/Supplement_3)

Fischhoff, B., & Scheufele, D. (eds.) (2014). *The Science of Science Communication II. Proceedings of the National Academy of Sciences*, 111 (supplement 4).

[http://www.pnas.org/content/111/Supplement\\_4](http://www.pnas.org/content/111/Supplement_4)

Fischhoff, B., & Scheufele, D. (eds.). (2019). *The Science of Science Communication III. Proceedings of the National Academy of Sciences*, 116(16).

<https://www.pnas.org/content/116/16>

Fiske, S., Fischhoff, B., & Milburn, M. (eds.) (1983). *Images of nuclear war. Journal of Social Issues*, 39 (1), <https://spssi.onlinelibrary.wiley.com/toc/15404560/1983/39/1>

Millett, L.I., Fischhoff, B., & Weinberger, P.J. (eds.). (2017). *Foundational Cybersecurity Research: Improving Science, Engineering, and Institutions*. Washington, DC: National Academy Press. <http://nap.edu/24676>

Morgan, M.G., Fischhoff, B., Bostrom, A., & Atman, C. (2001). *Risk communication: A mental models approach*. New York: Cambridge University Press.

Seybolt, T., Aronson, J., & Fischhoff, B. (eds.). (2013). *Counting civilian casualties: An introduction to recording and estimating nonmilitary deaths in conflict*. Oxford: Oxford University Press.

## Articles

### 1974

Fischhoff, B. & Beyth, R. (1974). Failure has many fathers. Review of I. Janis, *Victims of Groupthink*. *Megamot* 28, 325-328 (in Hebrew). Reprinted in *Policy Sciences*, 1976, 7, 388-393. <https://doi.org/10.1007/BF00137631>

Koriat, A. & Fischhoff, B. (1974). What day is today? An inquiry into the process of time orientation. *Memory and Cognition*, 2, 201-205. <https://doi.org/10.3758/BF03208982>

### 1975

Fischhoff, B. (1975). Hindsight ≠ foresight: The effect of outcome knowledge on judgment under uncertainty. *Journal of Experimental Psychology: Human Perception and Performance*, 1(3), 288-299. <https://doi.org/10.1037/0096-1523.1.3.288> Reprinted in T.O. Nelson (ed.), *Metacognition: Core readings*. Needham Heights, MA: Allyn & Bacon, 1992; in E. Aronson & A.R. Pratkanis (eds.). *Social psychology*. Cheltenham, England: Edward Elgar; in R. Beyth-Marom (ed.), *Heuristics and biases: The psychology of intuitive judgment*. Tel Aviv: Open University Press; *Quality and Safety in Healthcare*, 2003, 12, 304-312. *BMJ Quality and Safety* (classic paper), 2003, 13(4), 304-310.

Fischhoff, B. (1975). Hindsight: Thinking backwards? *Psychology Today*, 8(11), 70-76. Reprinted in *The Best of Psychology Today*. New York: McGraw-Hill, 1990; in György Hunyady (Ed.), *Történeti és politikai pszichológia* (pp 234-251). Budapest: Osiris Kiadó (in Hungarian).

Fischhoff, B. & Beyth, R. (1975). "I knew it would happen"--Remembered probabilities of once-future things. *Organizational Behavior and Human Performance*, 13, 1-16.  
[https://doi.org/10.1016/0030-5073\(75\)90002-1](https://doi.org/10.1016/0030-5073(75)90002-1)

## 1976

Fischhoff, B. (1976). Attribution, theory and judgment under uncertainty. In J.H. Harvey, W.J. Ickes & R.F. Kidd (eds.), *New directions in attribution research* (pp. 419-450). Hillsdale, NJ: Erlbaum.

Fischhoff, B. (1976). The effect of temporal setting on likelihood estimates. *Organizational Behavior and Human Performance*, 15, 180-194. [https://doi.org/10.1016/0030-5073\(76\)90036-2](https://doi.org/10.1016/0030-5073(76)90036-2)

Fulero, S. & Fischhoff, B. (1976). Differential media evaluations and satisfaction with election results: The bearer of good and bad tidings. *Communications Research*, 3, 22-36.  
<https://doi.org/10.1177/0093650276003001>

Koriat, A., Fischhoff, B. & Razel, O. (1976). Is today...? A further investigation of temporal orientation. *Acta Psychologica*, 40, 57-63. [https://doi.org/10.1016/0001-6918\(76\)90044-5](https://doi.org/10.1016/0001-6918(76)90044-5)

Slovic, P., Fischhoff, B. & Lichtenstein, S. (1976). Cognitive processes and societal risk taking. In J.S. Carroll and J.W. Payne (eds.), *Cognition and social behavior* (pp. 165-184). Potomac, MD: Erlbaum. Reprinted in H. Jungermann and G. deZeeuw (eds.), *Decision making and change in human affairs*. Dordrecht, The Netherlands: D. Reidel, 1977. P. Slovic (ed.), *The perception of risk*. London: Earthscan, 2001

## 1977

Beyth-Marom, R. & Fischhoff, B. (1977). Direct measures of availability and judgments of category frequency. *Bulletin of the Psychonomic Society*, 9, 236-238.  
<https://doi.org/10.3758/BF03336986>

Fischhoff, B. (1977). Cognitive liabilities and product liability. *Journal of Products Liability*, 1, 207-220.

Fischhoff, B. (1977). Cost-benefit analysis and the art of motorcycle maintenance. *Policy Sciences*, 8, 177-202. <https://doi.org/10.1007/BF01712294>

Fischhoff, B. (1977). Perceived informativeness of facts. *Journal of Experimental Psychology: Human Perception and Performance*, 3, 349-358. <https://doi.org/10.1037/0096-1523.3.2.349>

Fischhoff, B., Slovic, P. & Lichtenstein, S. (1977). Knowing with certainty: The appropriateness of extreme confidence. *Journal of Experimental Psychology: Human Perception and Performance*, 3, 552-564. <https://doi.org/10.1037/0096-1523.3.4.552>

Lichtenstein, S. & Fischhoff, B. (1977). Do those who know more also know more about how much they know? The calibration of probability judgments. *Organizational Behavior and Human Performance*, 20, 159-183. [https://doi.org/10.1016/0030-5073\(77\)90001-0](https://doi.org/10.1016/0030-5073(77)90001-0)

Lichtenstein, S., Fischhoff, B., & Phillips, L.D. (1977). Calibration of probabilities: The state of the art. In H. Jungermann & G. deZeeuw (eds.), *Decision making and change in human affairs*

(pp. 275-324). Dordrecht, The Netherlands: D. Reidel. Reprinted in R. Beyth-Marom (ed.), *Evaluation and judgment under uncertain conditions*. Ramat Aviv, Israel: Open University Press.

Slovic, P. & Fischhoff, B. (1977). On the psychology of experimental surprises. *Journal of Experimental Psychology: Human Perception and Performance*, 3, 544-551. <https://doi.org/10.1037/0096-1523.3.4.544>

Slovic, P., Fischhoff, B. & Lichtenstein, S. (1977). Behavioral decision theory. *Annual Review of Psychology*, 28, 1-39. <http://dx.doi.org/10.1146/annurev.ps.28.020177.000245>

Slovic, P., Fischhoff, B., Lichtenstein, S., Corrigan, B. & Combs, B. (1977). Preference for insuring against probable small losses: Implications for the theory and practice of insurance. *Journal of Risk and Insurance*, 44, 237-258. <https://doi.org/10.2307/252136> Also appeared as Laboratory studies of insurance behavior. In H. Kunreuther, R. Ginsburg, L. Miller, P. Sagi, P. Slovic, B. Borkan, & N. Katz, *Disaster Insurance Protection: Public Policy Lessons*. New York: Wiley. Reprinted in P. Slovic (ed.), *The perception of risk*. London: Earthscan, 2001.

## 1978

Fischhoff, B. (1978). Intuitive use of formal models. A comment on Morrison's "Quantitative Models in History." *History and Theory*, 17, 207-210. <https://doi.org/10.2307/2504845>

Fischhoff, B., Hohenemser, C., Kasperson, R. E. & Kates, R. W. (1978). Can hazard management be improved? *Environment*, 20(7), 16-20 & 32-37. <https://doi.org/10.1080/00139157.1978.9928700>

Fischhoff, B. & Lichtenstein, S. (1978). Don't attribute this to Reverend Bayes. *Psychological Bulletin*, 85(2), 239-243. <https://doi.org/10.1037/0033-2909.85.2.239>

Fischhoff, B. & Slovic, P. (1978). Comment on "Safety at any price?" by Walter Oh. *Regulation*, May/June.

Fischhoff, B., Slovic, P. & Lichtenstein, S. (1978). Fault trees: Sensitivity of assessed failure probabilities to problem representation. *Journal of Experimental Psychology: Human Perception and Performance*, 4, 330-344. <https://doi.org/10.1037/0096-1523.4.2.330>

Fischhoff, B., Slovic, P., Lichtenstein, S., Read, S. & Combs, B. (1978). How safe is safe enough? A study of attitudes towards technological risks and benefits. *Policy Sciences*, 9, 127-152. <https://www.jstor.org/stable/4531720>. Reprinted in P. Slovic (ed.), *The perception of risk*. London: Earthscan, 2001; R. Löfstedt & Åsa Boholm (eds.), *The Earthscan reader on risk*. London: Earthscan, 2008; A. Burgess (ed.), *Risk*. Los Angeles: Sage, 2016.

Lichtenstein, S., Slovic, P., Fischhoff, B., Layman, M. & Combs, B. (1978). Judged frequency of lethal events. *Journal of Experimental Psychology: Human Learning and Memory*, 4, 551-578. Reprinted in W.K. Viscusi & T. Gayer (eds.), *Classics in Risk Management*. London: Edward Elgar. <https://doi.org/10.1037/0278-7393.4.6.551>

Slovic, P., Fischhoff, B. & Lichtenstein, S. (1978). Accident probabilities and seat-belt usage: A psychological perspective. *Accident Analysis and Prevention*, 10, 281-285. [https://doi.org/10.1016/0001-4575\(78\)90030-1](https://doi.org/10.1016/0001-4575(78)90030-1) Reprinted in P. Slovic (ed.), *The perception of risk*. London: Earthscan, 2001.

Slovic, P., Fischhoff, B. & Lichtenstein, S. (1978). Risk assessment: Basic issues. In R. W. Kates (ed.), *Managing technological hazards: Research needs and opportunities* (pp. 81-108). University of Colorado, Institute of Behavioral Science, Monograph Series on Technology, Government and Man.

## 1979

Fischhoff, B. (1979). Behavioral aspects of cost-benefit analysis. In G. Goodman and W. Rowe (eds.), *Energy risk assessment* (pp. 269-283). London: Academic. Reprint appeared in *Congressional Record*, Hearings of House Commerce Committee: "Uses and Abuses of Cost-Benefit Analysis"; in S. Fiddle (ed.), *Uncertainty: Social and behavioral dimensions*. New York: Praeger, 1980; and in R. Nicholson (ed.), *Management of assessed risk for carcinogens*. New York: New York Academy of Sciences, 1981.

Fischhoff, B. (1979). Comment on "Hazards in the Chemical Industry" by R. D. Zentner. *Chemical and Engineering News*, 57(51), 3 & 34.

Fischhoff, B. (1979). Diagnosing clinical diagnosis. Review of *Medical problem solving* by A. Elstein, L. Shulman & S. Sprafka. *Contemporary Psychology*, 24, 48-49.  
<https://doi.org/10.1037/017924>

Fischhoff, B. (1979). Informed consent in societal risk-benefit decisions. *Technological Forecasting and Social Change*, 13, 347-358. [https://doi.org/10.1016/0040-1625\(79\)90089-1](https://doi.org/10.1016/0040-1625(79)90089-1)  
Also appeared in *Proceedings of the Society for General Systems Research, 22nd Annual Meeting*, 1978.

Fischhoff, B., Slovic, P. & Lichtenstein, S. (1979). Subjective sensitivity analysis. *Organizational Behavior and Human Performance*, 23, 339-359. [https://doi.org/10.1016/0030-5073\(79\)90002-3](https://doi.org/10.1016/0030-5073(79)90002-3)

Fischhoff, B., Slovic, P. & Lichtenstein, S. (1979). Weighing the risks. *Environment*, 21(5), 17-20, 32-38. <https://doi.org/10.1080/00139157.1979.9929722> Reprinted in P. Slovic (ed.). (2000). *The perception of risk*. London: Earthscan; R. Zerbe (ed.). *Benefit-cost analysis*. Cheltenham: Elgar, 2008.

Slovic, P., Fischhoff, B. & Lichtenstein, S. (1979). Rating the risks. *Environment*, 21(4), 14-20, 36-39. <https://doi.org/10.1080/00139157.1979.9933091> Reprinted in *Chemtek*, 9, 738-744; *Electrical Perspectives*, 1979; Y. Haiman (ed.), *Risk-benefit analysis in water resources planning and management*. New York: Plenum, 1981; C. Hohenemser & J.X. Kasperson (eds.), *Risk in the technological society*. Boulder, CO: Westview, 1982; T.S. Glickman & M. Gough (eds.), *Readings in risk*. Washington, DC: Resources for the Future, 1990; P. Slovic (ed.), *The perception of risk*. London: Earthscan, 2000.

Slovic, P., Fischhoff, B. & Lichtenstein, S. (1979). Images of disaster: Perception and acceptance of risks from nuclear power. In G. Goodman & W. Rowe (eds.), *Energy risk management* (pp. 223-245). London: Academic Press. Reprinted in: *Proceedings of the 15<sup>th</sup> Annual Meeting of the National Conference on Radiation Protection and Clinical Radiology*, 1983; V.T. Covello, J.L. Mumpower, P.J.M. Stallen & V.R.R. Uppuluri (eds.), *Environmental impact assessment, technology assessment and risk analysis*. Berlin: Springer-Verlag, 1985.



**1980**

Fischhoff, B. (1980). Clinical decision analysis. *Operations Research*, 28, 28-43. <https://doi.org/10.1287/opre.28.1.28> Reprinted in J. A. Dowie & A. S. Elstein (eds.), *The clinical decision: An interdisciplinary reader*. Cambridge, UK: Cambridge University Press, 1986. Reprinted as Decision analysis: Clinical art or clinical science? In L. Sjöberg, T. Tyszka & J. A. Wise (eds.), *Decision analysis and decision processes*. Lund, Sweden: Doxa, 1982. Reprinted as Clinical policy analysis. In W. N. Dunn (ed.), *Policy analysis: Concepts and methods*. Greenwich, CT: JAI Press, 1986.

Fischhoff, B. (1980). For those condemned to study the past: Reflections on historical judgment. In R.A. Shweder and D.W. Fiske (eds.), *New directions for methodology of behavioral science: Fallible judgment in behavioral research* (pp. 79-93). San Francisco: Jossey-Bass. <https://doi.org/10.21236/ADA088699> Reprinted in D. Kahneman, P. Slovic and A. Tversky (eds.), *Judgment under uncertainty: Heuristics and biases*. New York: Cambridge University Press, 1982. In D. Levitin (ed.). (2002). *Foundations of cognitive psychology: A reader*. Cambridge, MA: MIT Press.

Fischhoff, B. & Slovic, P. (1980). A little learning...: Confidence in multicue judgment. In R. Nickerson (ed.), *Attention and performance, VIII* (pp. 779-800). Hillsdale, NJ: Erlbaum.

Fischhoff, B., Slovic, P. & Lichtenstein, S. (1980). Knowing what you want: Measuring labile values. In T. Wallsten (ed.), *Cognitive processes in choice and decision behavior* (pp. 117-141). Hillsdale, NJ: Erlbaum. Reprinted in D. Bell, H. Raiffa, & A. Tversky (eds.), *Decision making*. New York: Cambridge University Press, 1989. Abbreviated versions appear as: Labile values: A challenge for risk assessment. In J. Conrad (ed.), *Society, technology and risk*. London: Academic Press, 1980; Poorly thought-out values: Problems of measurement. In W. D. Conn (ed.), *Energy and material resources: Attitudes, values and public policy*. Boulder, CO: Westview, 1983.

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Lichtenstein, S. & Fischhoff, B. (1980). Training for calibration. *Organizational Behavior and Human Performance*, 26, 149-171. [https://doi.org/10.1016/0030-5073\(80\)90052-5](https://doi.org/10.1016/0030-5073(80)90052-5)

Murphy, A.H., Lichtenstein, S., Fischhoff, B., & Winkler, R.L. (1980). Misinterpretations of precipitation probability forecasts. *Bulletin of the American Meteorological Society*, 61, 695-701. <https://www.jstor.org/stable/26221118> Also NOAA Technical Memorandum, NWS-WR-149. 1980.

Slovic, P., Fischhoff, B. & Lichtenstein, S. (1980). Facts and fears: Understanding perceived risk. In R. Schwing & W.A. Albers, Jr. (eds.), *Societal risk assessment: How safe is safe enough?* (pp. 181-214). New York: Plenum Press. Revision in D. Kahneman, P. Slovic, & A. Tversky (eds.), *Judgment under uncertainty: Heuristics and biases*. New York: Cambridge University Press, 1982. Reprinted in K.B. Monroe (ed.). (198i). *Advances in Consumer Research*, 8, 479-502; K.G. Willis, K.J. Button, & P. Nijkamp (eds.), *Environmental valuation*. Cheltenham, UK: Edward Elgar; P. Slovic (ed.), *The perception of risk*. London: Earthscan, 2001; in *Antologia di studi sul rischio*. Milan: Italian Institute for Research and Development of Insurance. 2004; *Policy and Practice in Health and Safety*, 2005, 3 (Supp. 1), pp 65-102; Daniele Pace (ed), *Economica del rischio*, Milan: Giuffrè Editore, 2008.

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Slovic, P., Fischhoff, B. & Lichtenstein, S. (1980). Risk assessment: Technical and behavioral issues. In *Risk/benefit in the legislative process* (pp. 133-188). Joint Hearings before the Committee on Science and Technology, U.S. House of Representatives, and the Committee on Commerce, Science and Transportation, U.S. Senate; July 1979. Washington, DC: Government Printing Office.

Slovic, P., Fischhoff, B. & Lichtenstein, S. (1980). Risky assumptions. *Psychology Today*, 14(1), 44-48.

## **1981**

Bar-Hillel, M & Fischhoff, B. (1981). When do base rates affect predictions? *Journal of Personality and Social Psychology*, 41, 671-680. <https://doi.org/10.1037/0022-3514.41.4.671>

Distinguished Scientific Awards for Early Career Contribution to Psychology: 1980. (1981). Baruch Fischhoff. *American Psychologist*, 36, 74-78. <https://doi.org/10.1037/h0092951>

Fischhoff, B. (1981). Can any assertions about behavior be empirically demonstrated? Response to J. Cohen, "Can human irrationality be empirically demonstrated?" *Behavioral and Brain Sciences*, 4, 336-337.

Fischhoff, B. (1981). Hot air: The psychology of CO<sub>2</sub>-induced climatic change. In J. Harvey (ed.), *Cognition, social behavior and the environment* (pp. 163-184). Hillsdale, NJ: Erlbaum.

Fischhoff, B. (1981). Inferential interference. Review of *Human inference: Strategies and shortcomings of social judgment*, by R. Nisbett & L. Ross. *Contemporary Psychology*, 26, 901-903. <https://www.jstor.org/stable/1448807>

Fischhoff, B. (1981). No man is a discipline. In J. Harvey (ed.), *Cognition, social behavior and the environment* (pp. 579-583). Hillsdale, NJ: Erlbaum.

Fischhoff, B., Slovic, P. & Lichtenstein, S. (1981). Lay foibles and expert fables in judgments about risk. In T. O'Riordan & R.K. Turner (eds.), *Progress in resource management and environmental planning*, Vol. 3, (pp. 161-202). Chichester, UK: Wiley. Reprinted in *American Statistician*, 1982, 36, 240-255; <https://doi.org/10.2307/2683835>. *Report of Scandinavian Cooperative Risk Analysis Project*. Stockholm, Sweden: Nordforsk, 1983; E.J. Balleisen (ed.), *Business Regulation*. Edward Elgar: London, 2015.

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Steinberg, A., & Fischhoff, B. (2023). Cognitive biases and shared decision making in acute brain injury. *Seminars in Neurology*. <https://doi.org/10.1055/s-0043-1775596>

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Yang, Y., Wong-Parodi, G., & Fischhoff, B. (2023). Visual Displays for Communicating Scientific Uncertainty in Influenza Forecasts. *Frontiers in Communication*. <https://www.frontiersin.org/articles/10.3389/fcomm.2023.1232156>

## ***In Press***

Dunning, R., Fischhoff, B., & Davis, A.L. (in press). When do humans heed AI agents' advice? When should they? *Human Factors*. <https://doi.org/10.1177/00187208231190459>

Furby, L., & Fischhoff, B. (in press). Rape self-defense strategies: A review of their effectiveness. *Victimology*.

Kenny, R., Fischhoff, Davis, A.L., and Canfield, C. (in press). Improving social bot detection through aid and training. *Human Factors*. <https://doi.org/10.1177/00187208231210145>

Kenny, R., Fischhoff, B., Davis, A.L., Carley, K.M., & Canfield, C. (in press). Duped by bots: Why some are better than others at detecting fake social media. *Human Factors*. <https://doi.org/10.1177/00187208211072642>

## **Editorial Board Memberships**

Consulting Editor. *Environment*, 1978 - 1984.

Consulting Editor. *Journal of Personality and Social Psychology*, 1978 - 1990.

Consulting Editor. *Organizational Behavior and Human Decision Processes*, 1980 - 2007.

Associate Editor. *Journal of Forecasting*, 1980 - 1985; *International Journal of Forecasting*, 1985 - 1998.

Consulting Editor. *Social Behavior: International Journal of Applied Social Psychology*, 1985 - 1991.

Consulting Editor. *Accident Analysis and Prevention*, 1986 - 1997.

Member, International Advisory Board. *Policy Sciences*, 1986 - 1995.

Associate Editor. *Journal of Risk and Uncertainty*, 1986 - present.

Associate Editor. *Cognitive Psychology*, 1987 - 1995.

Member, Editorial Advisory Board. *Risk: Health, Safety, & Environment*, 1991 - 2003.

Consulting Editor. *Journal of Experimental Psychology: Applied*, 1993 - 2000.

Associate Editor. *Journal of Behavioral Decision Making*, 1994 - present.

Member, Editorial Board, *Current Psychology of Cognition*, 1994 - 2000.

Associate Editor, *Risk, Decision & Policy*, 1995 - 2003.

Review Coordinator, National Research Council Committee on Risk Characterization (*Understanding risk*), 1996.

Member, Editorial Board. *Risk Analysis*, 1997 - present.

Member, Editorial Board, *Journal of Risk Research*, 1999 - present.

Member, Editorial Board, *Decision Analysis*, 1999 - present.

Member, Advisory Board, *Behavioral and Experimental Finance*, 2004 - present.

Member, Editorial Board, *Behavioral Science and Policy*, 2010 - present.

Member, Editorial Board, *Jàmbá: Journal of Disaster Risk Studies*, 2011 - present.

Member, Editorial Board, *Journal of Applied Research in Memory and Cognition*, 2011-2015.

Co-Editor, Special issues of the *Proceedings of the National Academy of Sciences*, on "The Science of Science Communication," 2012-2019.

Associate Principal Investigator, TESS (Time-Sharing Experiments for the Social Sciences), 2013 – present

Advisor, *Management and Business Review*, 2019-present.

Member, Advisory Board, *Science, Values, and the Public*, University of Pittsburgh Press, 2019-present.

## **Committees of the National Academies of Science Engineering and Medicine (NASEM)**

National Research Council Panel on Survey Measurement of Subjective Phenomena, 1979-1981.

National Research Council Committee on Human Factors, 1980-1987.

National Research Council Committee on Priority Mechanisms for the National Toxicology Program, 1980-1984.

National Research Council Committee on Research Needs in Space Station Design, 1986-1987.

National Research Council Panel on the Use of Pilot Performance Models in Computer-Aided Design Facility, 1986-1988.

National Research Council Committee on Risk Perception and Communication, 1987 - 1989.

National Research Council Ad Hoc Panel on Behavioral Science Contributions to AIDS, 1987.

National Research Council Committee on Human Dimensions of Global Environmental Change, 1989-1995.

Institute of Medicine Committee on Substance Abuse & Mental Health Issues in AIDS Research, 1993-1995.

National Research Council Commission on Behavioral and Social Science and Education, 1994-2000.

National Research Council Committee on Criteria for Federal Support of R&D, 1994-1996.

Institute of Medicine Committee on Environmental Justice, 1996-1999.

National Research Council/Institute of Medicine Forum on Adolescence, 1997-2000 (liaison).

Institute of Medicine Committee on the National Institutes of Health Research Prioritization Process, 1998.

Institute of Medicine Board on Health Promotion and Disease Prevention, 1998-2001.

National Research Council Committee on Grand Challenges in Environmental Sciences, 1998-2000.

National Research Council Steering Committee for the Workshop on Work-Related Musculoskeletal Disorders, 1998.

Institute of Medicine Roundtable on Environmental Health Science and Research, 1998-2006.

National Research Council Panel on Musculoskeletal Disorders in the Workplace, 1999-2001.

National Research Council Committee on Future Directions for Social and Behavioral Sciences Research at the National Institutes of Health, 1999-2001.

Institute of Medicine Committee on Adolescent Risk and Vulnerability, Co-Chair, 2000-2001.

Institute of Medicine Committee on Adolescent Health and Development, 2001-2003 (liaison).

National Research Council Roundtable Social and Behavioral Sciences on Terrorism, 2002-2004.

National Academy of Sciences Committee on Public Understanding of Science, 2002-2003. Communications Advisory Committee, 2003-2005.

National Research Council Committee to Review the Office of Management and Budget Risk Assessment Bulletin, 2006-2007.

National Research Council Committee on Behavioral and Social Science Research to Improve Intelligence Analysis for National Security, 2009-2011 (chair).

National Academies of Science Colloquia "The Science of Science Communication I, II, III," 2011-2014, 2016-2019 (co-chair).

National Research Council Committee on Ethical and Societal Implications of Advances in Militarily Significant Technologies that are Rapidly Changing and Increasingly Globally Accessible, 2011-2014.

National Research Council Committee on Future Research Goals and Directions for Foundational Science in Cybersecurity, 2012-2017 (co-chair).

IOM Workshop on Characterizing and Communicating Uncertainty in the Assessment of Benefits and Risks of Pharmaceutical Products, 2013-2014 (co-chair)

National Research Council Advisory Committee to the US Global Change Research Program, 2014-2021.

National Research Council Committee on the Risks and Benefits of Gain of Function Research, 2014-2016.

National Academies Communication Awards Selection Committee, 2014-2019.

National Research Council Planning Committee on Methods for Characterizing Risk in Climate Change Assessments, 2015-2016.

National Research Council Planning Committee for Workshop on Building Communication Capacity to Counter Infectious Disease Threats, 2016-2017.

National Research Council Planning Committee for a Workshop on Governance of Dual Use Research in the Life Sciences, 2017-2018.

National Academies Standing Committee on Emerging Infectious Diseases and 21<sup>st</sup> Century Health Threats, 2020-present.

National Academies Committee on Equitable Allocation of Vaccine for the Novel Coronavirus, 2020.

National Academies Committee on Reviewing the Public Health Emergency Medical Countermeasures Enterprise, 2021.

National Academies Rapid Response Report Committee on Understanding and communicating about COVID-19 vaccine efficacy, effectiveness, and equity, 2021

National Academies Rapid Response Report Committee on Supporting Personal Risk Assessment for COVID-19 Decisions, 2022

National Academies Rapid Expert Consultation on Over-the-Counter (OTC) Tests for COVID-19, Seasonal Illness, and Future Pandemics, 2022

### **Selected Other Activities**

Eugene, OR, Commission on the Rights of Women, Founding Member, 1976-1981.

Eugene, OR, Human Rights Commission, 1978-81, President, 1979-81.

Cooperative research group in decision making. US-Hungarian Academies of Sciences, 1979-1985.

Visiting Member. Senior Combination Room. Churchill College, Cambridge University, 1981-1982.

Task Force for the Prevention of Nuclear War. American Psychological Association, 1984.

President. Eugene Research Institute, 1984-1987.

Advisory Panel. National Science Foundation Division of Information Science and Technology, 1985-1987.

International Joint Commission on the Great Lakes Advisory Panel on Man-Machine Interactions in Pollution Control, 1985-1987.

Committee on Research Support. American Psychological Association, 1986-1988; Chair, 1987-1988.

Advisory Committee on the Resolution of Ethical & Legal Conflicts to the ATSDR/NIOSH/MIT Project on Community Monitoring for Exposure to Toxic Substances & Associated Risks to Health, 1989-1991.

Carnegie Council on Adolescent Development Working Group on the Role of Voluntary Organizations in Serving Disadvantaged Youth, 1989-1990.

Advisory Board. Policy Research & Intervention for Development in Early Adolescence. Pennsylvania State University, 1990-1993.

Advisory Panel, Office of Technology Assessment. Systems at risk from climate change, 1991-1993.

Advisory Board. Georgetown University Project on Student Values. 1991-1993.

Advisory Board. Resources for the Future. Study on cost-effectiveness of federal programs to save lives. 1991 - 1993.

Review Panel. National Science Foundation Program on Decision Risk and Management Science, 1992-1994.

External Review Committee. Centers for Disease Control HIV/AIDS Public Information and Education Program, 1993.

Scientific Advisory Committee. Electric Power Research Institute. Risk Assessment & Management Program. 1995.

Advisory Committee. National Science Foundation Study on "The role of insurance and regulations in dealing with natural hazards." Wharton School, University of Pennsylvania. 1995-1998.

Review Panel & Lecturer. USAID Workshop for Central Asia Environmental Officials. 1995

Scientific Advisory Committee, Advanced Driver Educational Products and Training, 1995-2000.

APA Presidential Task Force on Adolescent Girls: Strengths and Stresses, 1997-2001.

Director, Center for the Integrated Study of Human Dimensions of Global Change, 2000-2006.

Head, Decision Sciences Major, Department of Social and Decision Sciences, 2000-2017.

Chair, Environmental Protection Agency Scientific Advisory Board, Workshop on Understanding Public Values and Attitudes Related to Ecological Risk Management, 2000-2001.

Chair, Scientific Advisory Committee, King's College Centre for Risk Management, 2002-2007.

Member, Advisory Committee, Henley Institute of Management, 2002-2005.

Member, Scientific Advisory Board, Environmental Protection Agency, 2003-2009.

Chair, Homeland Security Advisory Committee, Environmental Protection Agency, 2004-2009.

Member, Department of Homeland Security Science and Technology Advisory Committee, 2004-2009.

Member, World Federation of Scientists, Permanent Monitoring Panel on Terrorism, 2004-2009.

Member, European Food Safety Agency, Risk Communication Advisory Committee, 2004-2008.

Member, Department of Homeland Security Partners Program. 2005-2007.

Member, Social Responses to Avian Flu Planning Group (PanDefense), 2005-2006.

Member. Israel Environmental Health Fund Advisory Committee, 2006-2008.

Member. Heritage Foundation, Science and Engineering for National Security Advisory Board, 2006-2008.

Associate, National Intelligence Council Global Expertise Reserve Program, 2006-2008;  
Department of State Bureau of Intelligence and Research Global Expertise Program, 2008-2010.

Member, Pittsburgh Mind Body Center, 2006-present.

Co-Chair, Centers for Disease Control and Prevention, Expert Panel on Decision Making and Risk Perception in Diabetes Prevention, 2007.

Member, Decision Education Foundation Advisory Council, 2007-present.

Member, Intangible Asset Finance Society, Council, 2007-2011

Chair, Food and Drug Administration Risk Communication Advisory Committee, 2007-2011.

Member, Scientific Advisory Committee, Great Lakes Integrated Sciences and Assessments Center, 2011-2014.

Member, Advisory Committee, Gordon and Betty Moore Foundation Environmental Conservation Program, 2011-2013.

Affiliate, Ideas42, 2011-present.

Informulary, Scientific Advisory Committee, 2013-2017.

Senior Advisor, International Consortium on Civilian Casualties, 2014-2017.

Advisory Committee, Skoll Global Threats Fund Climate Advocacy Lab, 2015-2017.

Research Affiliate, Health Risk Communication Center, University of Haifa, 2016-present

Member, Evaluation Committee, Building Interdisciplinary Research Careers in Women's Health Research, Magee Womens Research Institute, 2016-present.

Scientific Advisor, "Hacking Your Mind," a Frontline series, 2016-2019.

Member, External Advisory Committee, Magee Summit on Women's Health, 2017-2018.

Member, Review Committee, American Psychological Foundation Visionary Awards, 2018-2021

Member, Chief of Naval Operations Risk Assessment Research Effort, 2019-2020.  
Member, Pandefense Advisory, 2020-present.  
Advisor, International Best Practices Advisory Group (COVID-19), UK Cabinet Office, 2020.  
Member, American Psychological Association Advisory Committee to World Health Organization Technical Advisory Group on Reducing COVID-19 Risks to Young People, 2021.  
Senior Adviser, COVID-19 Commission Planning Group, 2021-2023.  
Advisory Council, Alliance for Decision Education, 2022-present.  
Member, Centers for Disease Control and Prevention (CDC) Office of Readiness and Response (ORR) Board of Scientific Counselors (BSC) Polio Containment Working Group (PCWG), 2023-present.  
Member, Organizing Committee, Antarctic Ice Preservation Working Group, 2023-present.

### **Doctoral Students (Chair)**

Harriet Shaklee. *Discounting in causal attribution*, 1979. University of Idaho (retired).

Cynthia J. Atman. *Network structures as a foundation for risk communication: An investigation of structure and format differences*, 1990. University of Washington.

Ann H. Bostrom. *A mental models approach to exploring perceptions of hazardous processes*, 1990. University of Washington.

Marilyn J. Quadrel. *Elicitation of adolescents' risk perceptions: Qualitative and quantitative dimensions*, 1990. Battelle Pacific Northwest Laboratories (retired).

Jon Merz. *Toward a standard of disclosure for medical informed consent: Development and demonstration of a decision-analytic methodology*, 1991. University of Pennsylvania.

Marek J. Druzdzel. *Probabilistic reasoning in decision support systems: From computation to common sense*, 1992. University of Pittsburgh (emeritus).

Michael Maharik. *Public perceptions of the risks of an unfamiliar technology: The case of using nuclear energy sources for space missions*, 1992. Israel Atomic Energy Commission.

Laurel Austin. *Consumer insurance decisions: Empirical analysis of four real-world decisions*, 1996. Western University Ivey School of Business (London, Ontario).

Sharon A. Jones. *A methodology for evaluating the usefulness of global-change information for long-term decision making: A case study of fisheries management in the Pacific Northwest*, 1996. Vice-President for Research, University of Washington-Bothell.

Karen Jenni. *Attributes for risk evaluation*, 1997. US Geological Survey.

Wändi Bruine de Bruin. *People's understanding of probability: "It's a fifty-fifty chance,"* 1998. University of Southern California.

Stephanie Byram. *Breast cancer and mammogram screening: Mental models and quantitative assessments of belief*, 1998. Deceased.

Donna Riley. *Human factors in exposure analysis for consumer paint-stripper use*, 1998. Dean of Engineering, University of New Mexico.

Shane Frederick. *Discounting, time preference, and identify*, 1999. Yale University School of Management.

Hiroshi Hayakawa. *Insurance buying behavior and risk management: A cross-national perspective*, 2000. FMI Corporation; Advantage Partners, Tokyo.

Andrew Parker. *An individual-differences measure of decision-making competence*, 2000. RAND Corporation.

Ned Welch. *The role of immediate affect in risky decision making*, 2001. McKinsey & Co.

Dan Kovacs. *Risk communication, for individuals and communities*, 2003. Decision Partners.

Matthew Dombroski. *A framework for risk assessment of radiological dispersion device (RDD) events Integrating physical dispersion and behavioral response models*, 2005. Lawrence Livermore National Laboratory.

Sara Eggers. *Behaviorally realistic standards for the adequacy of product communications*, 2005. US Food and Drug Administration.

Umit Güvenç. *A scenario-based integrated risk assessment and risk communication methodology for a new biomedical technology: A case study in xenotransplantation*, 2005. Sanofi.

Alex Davis. *The file-drawer problem*, 2012. Independent.

Daniel Schwarz Perloth. *The Hawthorne (study participation) effect in consumer energy behavior*, 2013. University of Chile.

Michael Yu. *Trust and outcome knowledge*, 2014. Centre hospitalier de l'Université de Montréal.

Alycia Chin. *Addressing Consumers' Information Needs: An Investigation of Credit Card Disclosures*, 2015. Security and Exchange Commission Office of the Investor Advocate.

Nathaniel Peterson. *A behavioral decision research approach to college completion risk*, 2015. Consultative Group on International Agriculture Research (CGIAR), Nairobi, Kenya.

Casey Canfield. *Using Vigilance to Quantify Human Behavior for Phishing Risk*, 2016. Missouri University of Science and Technology.

Caitlin Drummond. *How do nonscientists reason about scientific evidence? Development, validation, and application of the Scientific Reasoning Scale*, 2017. Arizona State University.

Barry Dewitt. *Measurement of Health-Related Quality of Life: Preference Aggregation, Exclusion, and Public Policy*, 2017. Carnegie Mellon University.

Kelly Matula. *Information Relevance for Informed Consent to Clinical Trials: Patients, Advisors, and Clinicians*. 2018. University of Pennsylvania Medical School.

Julia Chelen. *Electric utility discourse and decisions: Processing natural language in security and Exchange Commission filings*. 2019. NIST.

Nicole Racine. *Predicting STEM employability*. 2020. Strategic Analysis.

Yanran Yang. *Graphic communication about scientific uncertainties: Examples from influenza and COVID-19*. 2021. Duke Kanshun University.

Ryan Kenny. *Why Some Are Better Than Others at Detecting Social Bots: Comparing Baseline Performance to Performance with Aids and Training*. 2022. US Army 112<sup>th</sup> Signal Battalion.

Emily Grayek. *A decision science approach to improving the study of adherence information*. 2022. Colorado Department of Labor.

Victor Rodriguez. *A Benefit-Risk Framework for Brain Computer Interfaces: A user-centric communication method for informed decision making*. 2023. Deceased.

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