

Vita
R. Duncan Luce
1925-2012

Born: May 16, 1925.

Died: August 11, 2012.

Education:

BS (1945) Massachusetts Institute of Technology, Aeronautical Engineering.

PhD (1950) Massachusetts Institute of Technology, Mathematics.

Academic Positions Held:

M.I.T.: 1950-53 Co-director, Group Networks Laboratory, Research Laboratory of Electronics.

Columbia University: 1953-57 Managing Director, Behavioral Models Project; 1954-57 Assistant Professor of Mathematical Statistics and Sociology.

Harvard University: 1957-59 Lecturer on Social Relations.

University of Pennsylvania: 1959-68 Professor of Psychology; 1968-69 Benjamin Franklin Professor of Psychology.

Institute for Advanced Study: 1969-72 Visiting Professor.

University of California, Irvine: 1972-75 Professor of Social Science.

Harvard University: 1976-81 Alfred North Whitehead Professor of Psychology; 1981-84 Professor and Chairman, Department of Psychology and Social Relations; 1983-88 Victor S. Thomas Professor of Psychology; 1988- Victor S. Thomas Professor of Psychology, Emeritus.

University of California, Irvine: 1988-94 Distinguished Professor of Cognitive Sciences; 1988-92 Director, Irvine Research Unit in Mathematical Behavioral Science; 1992—1998 Director, Institute for Mathematical Behavioral Science; 1993-94 Professor of Economics; 1994—2012 Emeritus and Distinguished Research Professor of Cognitive Sciences and Research Professor of Economics.

Honors, Awards, Lectureships:

- 1945: Tau Beta Pi
- 1945: Sigma Xi
- 1954-55: Fellow, Center for Advanced Study in the Behavioral Sciences
- 1963: Society of Experimental Psychologists
- 1965: Lester R. Ford award for an expository paper in *The American Mathematical Monthly* in 1994
- 1966: American Academy of Arts and Sciences
- 1966-67: Fellow, Center for Advanced Study in the Behavioral Sciences
- 1966-67: Senior Post-doctoral Fellowship, National Science Foundation
- 1968-69: Visiting Professor, Organization of American States, Rio de Janeiro, Brazil
- 1970: Distinguished Scientific Contributions Award, American Psychological Association
- 1972: National Academy of Sciences
- 1975: Phi Beta Kappa
- 1976: MA (honorary) Harvard University
- 1980-81: Guggenheim Fellowship
- 1984-85: Visitor, AT&T Bell Laboratories, Murray Hill, NJ
- 1986-87: American Association for the Advancement of Science Prize for Behavioral Science Research
- 1987-88: Fellow, Center for Advanced Study in the Behavioral Sciences
- 1994: UCI Distinguished Faculty Lectureship Award for Research
- 1994: American Philosophical Society
- 1994: American Psychological Foundation, F.J. McGuigan Lecturer
- 1996: Man of the Year-1996, American Biographical Institute
- 1996-97: International Man of the Year, International Biographical Centre, Cambridge, England.
- 1999: International Man of the Millennium, International Biographical Centre, Cambridge, England.
- 2001: UCI Medal.
- 2001: Gold Medal Award for Life Achievement in the Science of Psychology, American Psychological Foundation.
- 2003: The Daniel G. Aldrich, Jr. Award for Distinguished University Service, UCI.
- 2003: Frank P. Ramsey Medal of the Decision Analysis Society.
- 2003: National Medal of Science (presented in 2005).
- 2004: Norman Anderson Award for Lifetime Contributions to Psychology, Society for Experimental Psychologists.
- 2007: ICI Alumni Association Extraordinarius Award.
- 2007: University of Waterloo, Honorary Doctorate of Mathematics
- 2008: Journal of Mathematical Psychology, Outstanding Paper Award for 2005-07, to Ragnar Steingrímsson and Luce, JMP, 51, 29-44.
- 2010: Fellow, Econometric Society.
- 2010: Fellow, Eastern Psychological Association.

Professional Affiliations:

American Association for the Advancement of Science: Fellow; Chair of Psychology Section, 1999-2000.

American Mathematical Society: Member.

American Psychological Association: Fellow, Div. 1 (Executive Committee, 2000–), 3, and 5; Board of Scientific Affairs, 1993-96.

American Psychological Foundation: Committee on the F.J. McGuigan lecturer, 1996-98.

American Psychological Society: Fellow; Board of Directors, 1989-91.

Beckman Institute, University of Illinois: External Advisory Committee, 1990-94.

Federation of Behavioral, Psychological, and Cognitive Sciences: Vice President, 1984-87; President, 1988-91.

Mathematical Association of America: Member.

Mathematical Social Science Board: 1964-68, 1971-74; Chairman, 1966-68, 1972-74.

National Academy of Sciences: Member; Chairman, Psychology Section, 1980-83; Chairman, Class V: Behavioral and Social Sciences, 1983-86; Report Review Committee, 1982-1989; ByLaws Committee, 1982-3, 1984-85; Committee on Structure, 1985-87; Nominating Committee, 1986, 1987, 1988.

National Research Council: Assembly of Behavioral and Social Sciences, Member, 1973-76, Chairman, 1976-79; Committee on Risk Assessment in NRC Reports, 1981; Committee on Basic Research in the Behavioral and Social Sciences, Co-chairman, 1984-88; Committee on National Needs for Biomedical and Behavioral Research Personnel, 1993-1994; Board on Mathematical Sciences, 1994-97.

Psychometric Society: Member, President, 1976-77.

Psychonomic Society: Member; Representative to Federation of Behavioral, Psychological, and Cognitive Sciences, 1983-85.

Society for Judgment/Decision Making: Member; Executive Committee, 1987-90.

Society for Mathematical Psychology: Member; Executive Committee, 1978-80; President, 1979.

Current Journal Editorial Responsibilities:

International Society of Group-Theoretic Cognitive Science: Distinguished Honorary Member of the Editorial Board

Journal of Mathematical Psychology: Editorial Advisory Board

Journal of Risk and Uncertainty: Advisory Editors

Theory and Decision: Consulting Editor

Mathematical Social Sciences: Editorial Board

Measurement Science Review: Editorial Board

SCIENTIFIC PUBLICATIONS OF R. DUNCAN LUCE

Books

- (1957) (- - -, & Raiffa, H.) *Games and Decisions: Introduction and Critical Survey*. New York: Wiley. (Reprinted in 1989 by Dover Publications)
- (1959) *Individual Choice Behavior: A Theoretical Analysis*. New York: Wiley.
- (1971) (Krantz, D.H., - - -, Suppes, P., & Tversky, A.) *Foundations of Measurement, Vol. I*, Academic Press. Reprinted (2007) by Dover Publications.
- (1986) *Response Times*. New York: Oxford University Press.
- (1989) (Suppes, P., Krantz, D.H., - - -, & Tversky, A.) *Foundations of Measurement, Vol. II*, Academic Press. Reprinted (2007) by Dover Publications.
- (1990) (- - -, Krantz, D.H., Suppes, P., & Tversky, A.) *Foundations of Measurement, Vol. III*, Academic Press. Reprinted (2007) by Dover Publications.
- (1993) *Sound & Hearing*, Hillsdale, NJ: Erlbaum.
- (2000) *Utility of Gains and Losses: Measurement-Theoretical and Experimental Approaches*. Mahwah, NJ: Lawrence Erlbaum Associates. Errata: Luce web page at <http://www.socsci.uci.edu>

Edited Books

- (1959) (Tucker, A.W., & - - -, Eds.) *Contributions to the Theory of Games, IV*, Annals of Mathematics Study, 40. Princeton, NJ: Princeton University Press.
- (1960) (Ed) *Developments in Mathematical Psychology: Information, Learning, Tracking*. Glencoe: Free Press.
- (1963) (- - -, Bush, R.R., & Galanter, E., Eds.) *Handbook of Mathematical Psychology, Vols. 1 & 2*. New York: Wiley.
- (1963) (- - -, Bush, R.R., Galanter, E., Eds.) *Readings in Mathematical Psychology, Vol. 1*. New York: Wiley.
- (1965) (- - -, Bush, R.R., & Galanter, E. Eds.) *Handbook of Mathematical Psychology. Vol. 3*. New York: Wiley.
- (1965) (- - -, Bush, R.R., & Galanter, E., Eds.) *Readings in Mathematical Psychology, Vol. 2*. New York: Wiley.
- (1974) (Atkinson, R.C., Krantz, D.H., - - -, & Suppes, P., Eds.) *Contemporary Developments in Mathematical Psychology, Vols. 1 and 2*. San Francisco: Freeman.

- (1988) (Gerstein, D., - - -, Smelser, N.J., & Sperlich, S., Eds.) *The Behavioral and Social Sciences: Achievements and Opportunities*. Washington: National Academy Press.
- (1988) (Atkinson, R.C., Herrnstein, R.J., Lindzey, G., & - - -, Eds.) *Stevens' Handbook of Experimental Psychology. Vols. I and II*, New York: Wiley.
- (1989) (- - -, Smelser, N., & Gerstein, D., Eds.) *Leading Edges in the Behavioral and Social Sciences*. New York: The Russell Sage Foundation.
- (1995) (- - -, D'Zmura, M., Hoffman, D, Iverson, G., & Romney, A.K., Eds.) *Geometric representations of Perceptual Phenomena: Papers in honor of Tarow Indow on his 70th birthday*. Hillsdale, NJ: Lawrence Erlbaum Associates.

Scientific Papers

1949

- (a) (- - -, & Perry, A.D.) A method of matrix analysis of group structure. *Psychometrika*, 14, 95-116. Reprinted in P.F. Lazarsfeld & N.W. Henry (Eds.), *Readings in Mathematical Social Science*. Chicago: Science Research Association, 1966. Pp. 111-130.

1950

- (a) *On semigroups*. Doctoral dissertation, Massachusetts Institute of Technology.
- (b) Connectivity and generalized cliques in sociometric group structure. *Psychometrika*, 15, 169-190.

1952

- (a) A note on Boolean matrix theory. *Proceedings of the American Mathematical Society*, 3, 382-388.
- (b) Two decomposition theorems for a class of finite oriented graphs. *American Journal of Mathematics*, 74, 701-722.
- (c) (Christie, L.S., - - -, & Macy, J., Jr.) *Communication and learning in task-oriented groups*. Technical Report 231, Research Laboratory of Electronics, Massachusetts Institute of Technology.

1953

- (a) (Macy, J. Jr., Christie, L.S., & - - -) Coding noise in task-oriented groups. *Journal of Abnormal and Social Psychology*, 48, 401-409.

(b) Networks satisfying minimality conditions. *American Journal of Mathematics*, 75, 825-838.

(c) (- - -, Macy, J., Jr, Christie, L.S., & Hay, H.) *Information flow in task-oriented groups*. Technical Report 264, Research Laboratory of Electronics, MIT.

1954

(a) A definition of stability for n-person games. *Annals of Mathematics*, 59, 357-366.

1955

(a) k-Stability of symmetric and of quota games. *Annals of Mathematics*, 62, 517-527.

(b) (- - -, Macy, J., Jr., & Tagiuri, R.) A statistical model for relational analysis. *Psychometrika*, 20, 319-327. Reprinted in R.D. Luce, R.R. Bush, & E. Galanter (Eds.), *Readings in Mathematical Psychology, Vol. II*. New York: Wiley, 1965. Pp. 272-280.

(c) Ψ -Stability: A new equilibrium concept for n-person game theory. In *Mathematical Models of Human Behavior*. Proceedings of a symposium (1954: Rye, New York). Dunlap and Associates. Pp. 32-44.

1956

(a) (Christie, L.S., & - - -) Decision structure and time relations in simple choice behavior. *Bulletin of Mathematical Biophysics*, 18, 89-112. Reprinted in R.D. Luce, R.R. Bush, & E. Galanter (Eds.), *Readings in Mathematical Psychology, Vol. I*. New York: Wiley, 1963. Pp. 17-40.

(b) (- - -, & Adams, E.W.) The determination of subjective payoff functions. *Econometrica*, 24, 158-171.

(c) Semiordeers and a theory of utility discrimination. *Econometrica*, 24, 178-191.

(d) Information handling in organized groups, IV. Some aspects of time and decisions. In J.R. McCloskey & J.M. Copping (Eds.) *Operations Research for Management, Vol. II*. Baltimore: Johns Hopkins Press. Pp. 489-508.

(e) (- - -, & Rogow, A.A.) A game theoretic analysis of congressional power distribution for a stable two party system. *Behavioral Science*, 1, 83-95.

1958

(a) A probabilistic theory of utility. *Econometrica*, 26, 193-224.

- (b) (- - -, & Edwards, W.) The derivation of subjective scales from just noticeable differences. *Psychological Review*, 65, 222-237.

1959

- (a) A note on the article "Some experimental n-person games". In A.W. Tucker & R.D. Luce (Eds.), *Contributions to the Theory of Games, Vol. IV*. (Annals of Mathematics Study 40) Princeton: Princeton University Press. Pp. 279-285.
- (b) Analyzing the social process underlying group voting patterns. In E. Burdick & A.J. Brodbeck (Eds.) *American Voting Behavior*. Glencoe: Free Press. Pp. 320-332.
- (c) A probabilistic theory of utility and its relationship to Fechnerian scaling. In C.W. Churchman & P. Ratoosh (Eds.) *Measurement: Definitions and Theories*. New York: Wiley. Pp. 144-159.
- (d) (Bush, R.R., Galanter, E., & - - -) Empirical tests of the beta model. In R.R. Bush & W.K. Estes (Eds.) *Studies in Mathematical Learning Theory*. Stanford: Stanford University Press. Pp. 382-399.
- (e) On the possible psychophysical laws. *Psychological Review*, 66, 81-95. Reprinted in R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Readings in Mathematical Psychology, Vol. I*. New York: Wiley 1963. Pp. 69-83. Also in Bobbs-Merril Reprint Series.
- (f) Response latencies and probabilities. In K.J. Arrow, S. Karlin, & P. Suppes (Eds.) *Mathematical Methods in the Social Sciences*. Stanford: Stanford University Press. Pp. 298-311.

1960

- (a) A survey of the theory of selective information and some of its behavioral applications. In R.D. Luce (Ed.) *Developments in Mathematical Psychology*. Glencoe: Free Press. Pp. 1-119.

1961

- (a) A choice theory analysis of similarity judgments. *Psychometrika*, 26, 151-163.
- (b) (Finnie, B., & - - -). *Magnitude-Estimation, Pair-Comparison, and Successive-Intervals Scales of Attitude Items*. University of Pennsylvania, Memorandum MP-9.

1962

- (a) (Griswold, B.J., & - - -) Choices among uncertain outcomes: A test of a decomposition and two assumptions of transitivity. *American Journal of Psychology*, 75, 35-44.

- (b) (- - -, & Shipley, E.F.) Preference probability between gambles as a step function of event probability. *Journal of Experimental Psychology*, 63, 42-49.
- (c) An observable property equivalent to a choice model for discrimination experiments. *Psychometrika*, 27, 163-167.
- (d) Psychological studies of risky decision making. In G.B. Strother (Ed.) *Social Sciences Approaches to Business Behavior*. Homewood, Ill: Dorsey Press and Richard D. Irwin. Pp. 141-161. Reprinted in W. Edwards & A. Tversky (Eds.) *Decision Making*. Baltimore: Penguin Books, 1967. Pp. 334-352.
- (e) Comments on Rozeboom's criticisms of "On possible psychophysical laws." *Psychological Review*, 69, 548-551.

1963

- (a) A threshold theory for simple detection experiments. *Psychological Review*, 70, 61-79.
- (b) (Bush, R.R., Galanter, E., & - - -) Characterization and classification of choice experiments. In R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Handbook of Mathematical Psychology, Vol. 1*. New York: Wiley. Pp. 77-102.
- (c) (- - -, & Galanter, E.) Discrimination. In R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Handbook of Mathematical Psychology, Vol. 1*. New York: Wiley. Pp. 191-243.
- (d) Detection and recognition. In R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Handbook of Mathematical Psychology, Vol. 1*. New York: Wiley. Pp. 103-189.
- (e) (- - -, & Galanter, E.) Psychophysical scaling. In R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Handbook of Mathematical Psychology, Vol. 1*. New York: Wiley. Pp. 245-307.

1964

- (a) (Bush, R.R., - - -, & Rose, R.M.) Learning models for psychophysics. In R.C. Atkinson (Ed.) *Studies in Mathematical Psychology*. Stanford University Press. Pp. 201-217.
- (b) (Shipley, E.F., & - - -) Discrimination among two- and three-element sets of weights. In R.C. Atkinson (Ed.) *Studies in Mathematical Psychology*. Stanford University Press. Pp. 218-232.
- (c) Some one-parameter families of commutative learning operators. In R.C. Atkinson (Ed.) *Studies in Mathematical Psychology*. Stanford: Stanford University Press. Pp. 380-398.

- (d) Learning and optimal judgments. In M.W. Shelly & G.I. Bryan (Eds.) *Human Judgments and Optimality*.
- (e) (- - -, & Tukey, J.) Simultaneous conjoint measurement: A new type of fundamental measurement. *Journal of Mathematical Psychology*, 1, 1-27.
- (f) A generalization of a theorem of dimensional analysis. *Journal of Mathematical Psychology*, 1, 278-284.
- (g) Asymptotic learning in psychophysical theories. *British Journal of Statistical Psychology*, 17, 1-13.
- (h) The mathematics used in mathematical psychology. *American Mathematical Monthly*, 71, 364-378.
- (i) Discussion. In R.W. Gerard & J.W. Dwyff (Eds.) *Information processing in the Nervous System*. Amsterdam: Excerpta Medica Foundation. Pp. 419-429.

1965

- (a) (- - -, & Suppes, P.) Preference, utility, and subjective probability. In R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Handbook of Mathematical Psychology*, Vol. 3. New York: Wiley. Pp. 249-410.
- (b) A “fundamental” axiomatization of multiplicative power relations among three variables. *Philosophy of Science*, 32, 301-309.
- (c) (McLaughlin, D.H., & - - -) Stochastic transitivity and cancellation of preferences between bitter-sweet solutions. *Psychonomic Science*, 2, 89-90.
- (d) (- - -, & Mo, S.S.) Magnitude estimation of heaviness and loudness by individual subjects. *British Journal of Mathematical and Statistical Psychology*, 18, 159-174.
- (e) Utility theory. In S. Sternberg, V. Capocchi, T. Kloek, & C.T. Leenders (Eds.) *Mathematics and Social Sciences*. Paris: Mouton. Pp. 55-71.
- (f) Eine theoretische Analyse der Detektion in zeitlich nichtstrukturierten Experimenten. *Zeitschrift für Psychologie*, 171, 57-68.

1966

- (a) A model for detection in temporally unstructured experiments with a Poisson distribution of stimulus presentations. *Journal of Mathematical Psychology*, 3, 48-64.
- (b) Two extensions of conjoint measurement. *Journal of Mathematical Psychology*, 3, 348-370.

- (c) (Lowenton, E., & - - -) Measuring equal increments of utility for money without measuring utility itself. *Psychonomic Science*, 6, 75-76.
- (d) Theories of conjoint measurement. In *Proceedings of the XVIII International Congress of Psychology*. Moscow, USSR. Pp. 62-67.

1967

- (a) Sufficient conditions for the existence of a finitely additive probability measure. *Annals of Mathematical Statistics*, 38, 780-786.
- (b) Remarks on the theory of measurement and its relation to psychology. In *Les Modèles et la Formalisations du Comportement*. Edition du Centre National de la Recherche Scientifique. Pp. 27-42.
- (c) (Green, D.M., & - - -) Detection of auditory signals presented at random times. *Perception & Psychophysics*, 2, 441-450.
- (d) (Snodgrass, J.G., - - -, & Galanter, E.) Some experiments on simple and choice reaction times. *Journal of Experimental Psychology*, 75, 1-17.

1968

- (a) (Bush, R.R., - - -, & Suppes, P.) Models, mathematical. In D. Sills (Ed.) *International Encyclopedia of the Social Sciences*, Vol. 10. Pp. 378-386. Reprinted in W.H. Kruskal & J.M. Tamur (Eds.) *International Encyclopedia of Statistics*. New York: MacMillan & Free Press. Pp. 592-601.
- (b) (- - -, & Suppes, P.). Mathematics. In D. Sills (Ed.) *International Encyclopedia of the Social Sciences*, Vol. 10. Pp. 65-76. Reprinted in W.H. Kruskal & J.M. Tamur (Eds.) *International Encyclopedia of Statistics*. New York: MacMillan & Free Press. Pp. 580-592.
- (c) On the numerical representation of qualitative conditional probability. *Annals of Mathematical Statistics*, 39, 481-491.
- (d) (Roberts, F.S., & - - -) Axiomatic thermodynamics and extensive measurement. *Synthese*, 18, 311-326.
- (e) Algebraic systems of measurement. In C.A.J. Vlek (Ed.) *Algebraic Models in Psychology. Proceedings NUFFIC International Summer Session*, The Hague. Pp. 265-298.

1969

- (a) Subjective expected utility. *Proceedings of the 7th Colloquia Brasileiro de Matematica*, Pocos Caldos, Brasil, 5-15.

- (b) (- - -, & Marley, A.A.J.) Extensive measurement when concatenation is restricted and maximal elements may exist. In S. Morgenbesser, P. Suppes, & M.G. White (Eds.) *Philosophy, Science, and Method: Essays in Honor of Ernest Nagel*. New York: St. Martin's Press. Pp. 235-249.

1970

- (a) What are the mathematical models of behavior models of? In R.M. Stogdill (Ed.) *The Process of Model Building*. Columbus: Ohio State University Press. Pp. 115-132.
- (b) (- - -, & Green, D.M.) Detection of auditory signals presented at random times, II. *Perception & Psychophysics*, 7, 1-14.

1971

- (a) (Green, D.M., & - - -) Detection of auditory signals presented at random times, III. *Perception & Psychophysics*, 9, 257-268.
- (b) Periodic extensive measurement. *Composito Mathematica*, 23, 189-198.
- (c) (- - -, & Krantz, D.H.) Conditional expected utility. *Econometrica*, 39, 253-271.
- (d) Similar systems and dimensionally invariant laws. *Philosophy of Science*, 38, 157-169.

1972

- (a) (- - -, & Green, D.M.) A neural timing theory for response times and the psychophysics of intensity. *Psychological Review*, 79, 14-57.
- (b) What sort of measurement is psychophysical measurement? *American Psychologist*, 27, 96-106.
- (c) Conditional expected, extensive utility. *Theory and Decision*, 3, 101-106.

1973

- (a) (Green, D.M., & - - -) Speed-accuracy tradeoff in auditory detection. In S. Kornblum (Ed.) *Attention and Performance, IV*. New York: Academic Press. Pp. 547-569.
- (b) Three axiom systems for additive semi-ordered structures. *SIAM Journal of Applied Mathematics*, 25, 41-53.
- (c) Renewal process models for psychophysics. In P.J. Kropp & H. Meyer (Eds.) *Proceedings of a Conference on the Application of Undergraduate Mathematics in the Engineering, Life, Managerial, and Social Sciences*. Atlanta, GA: Georgia Institute of Technology. Pp. 103-137.

- (d) Measurement and psychophysics. In H.A. Selby (Ed.) *Notes of Lectures on Mathematics in the Behavioral Sciences*. Mathematical Association of America. Pp. 197-267.

1974

- (a) (- - -, & Green, D.M.) The response ratio hypothesis for magnitude estimation. *Journal of Mathematical Psychology*, 11, 1-14.
- (b) (Green, D.M., & - - -) Variability of magnitude estimates: a timing theory analysis. *Perception & Psychophysics*, 15, 291-300.
- (c) (Green, D.M., & - - -) Counting and timing mechanisms in auditory discrimination and reaction time. In D.H. Krantz, R.C. Atkinson, R.D. Luce, & P. Suppes (Eds.) *Contemporary Developments in Mathematical Psychology, Vol. II*. San Francisco: Freeman. Pp. 372-415.
- (d) (- - -, & Green, D.M.) Ratios of magnitude estimates. In H.R. Moskowitz, B. Scharf, & J.C. Stevens (Eds.) *Sensation and Measurement*. Dordrecht, Holland: D. Reidel Pp. 99-111.
- (e) (- - -, & Green, D.M.) Detection, discrimination, and recognition. In E.C. Carterette & M.P. Friedman (Eds.) *Handbook of Perception, Vol. II*. New York: Academic Press. Pp. 299-342.
- (f) (- - -, & Green, D.M.) Neural coding and psychophysical discrimination data. *Journal of the Acoustical Society of America*, 56, 1554-1564. (1975) Erratum: Neural coding and psychophysical discrimination. *Journal of the Acoustical Society of America*, 57, 1552.
- (g) (Galanter, E., & - - -) Robert R. Bush, Later Career. *Journal of Mathematical Psychology*, 11, 179-189.
- (h) (- - -, & Suppes, P.) Measurement, theory of. *Encyclopedia Britannica, 15th Edition*, 11, 739-745.

1975

- (a) (Green, D.M., & - - -) Parallel psychometric functions from a set of independent detectors. *Psychological Review*, 82, 483-486. (1976) Correction to "Parallel psychometric functions from a set of independent detectors." *Psychological Review*, 83, 172.
- (b) (Batchelder, W.H., & - - -) Editorial. *Journal of Mathematical Psychology*, 12, 1-3.

1976

- (a) (- - -, Green, D.M. & Weber, D.L.) Attention bands in absolute identification. *Perception & Psychophysics*, 20, 49-54.

- (b) (Narens, L., & - - -) The algebra of measurement. *Journal of Pure and Applied Algebra*, 8, 197-233.
- (c) (- - -, & Narens, L.) A qualitative equivalent to the relativistic additive law for velocities. *Synthese*, 33, 483-487.
- (d) (Jesteadt, W., Green, D.M., & - - -) Sources of variability in magnitude estimation. In H.-G. Geissler & Yu. M. Zabrodin (Eds.) *Advances in Psychophysics*. Berlin: VEB Deutscher Verlag der Wissenschaften. Pp. 239-251.

1977

- (a) The choice axiom after twenty years. *Journal of Mathematical Psychology*, 15, 215-233. Reprinted in R.K. Merton, J.S. Coleman, & P.H. Rossi (Eds.) (1979) *Qualitative and Quantitative Social Research*. New York: The Free Press, Pp. 138-157.
- (b) A note on sums of power functions. *Journal of Mathematical Psychology*, 16, 91-93.
- (c) (Weber, D.L., Green, D.M., & - - -) Effects of practice and distribution of auditory signals on absolute identification. *Perception & Psychophysics*, 22, 223-231.
- (d) (Jesteadt, W., - - -, & Green, D.M.) Sequential effects in judgments of loudness. *Journal of Experimental Psychology: Human Perception and Performance*, 3, 92-104.
- (e) (Green, D.M., - - -, & Duncan, J.E.) Variability and sequential effects in magnitude production and estimation of auditory intensity. *Perception & Psychophysics*, 22, 450-456.
- (f) Thurstone's discriminial processes fifty years later. *Psychometrika*, 42, 461-489.

1978

- (a) (- - -, & Green, D.M.) Two tests of a neural attention hypothesis for auditory psychophysics. *Perception & Psychophysics*, 23, 363-391.
- (b) (- - -, & Narens, L.) Qualitative independence in probability theory. *Theory and Decision*, 9, 225-239.
- (c) Lexicographic tradeoff structures. *Theory and Decision*, 9, 187-193.
- (d) (Wandell, B., & - - -) Pooling peripheral information: averages versus extreme values. *Journal of Mathematical Psychology*, 17, 220-235.
- (e) Dimensionally invariant numerical laws correspond to meaningful qualitative relations. *Philosophy of Science*, 45, 1-16.

- (f) Conjoint measurement: a brief survey. In D.E. Bell, R.L. Keeney, & H. Raiffa (Eds.) *Conflicting Objectives*. New York: Wiley. Pp. 148-171. Also in C.A. Hooker et al. (Eds.) *Foundations and Applications of Decision Theory, Vol. I*. Dordrecht: D. Reidel. Pp. 311-336.
- (g) A mathematician as psychologist. In T.W. Krawiec (Ed.) *The Psychologists, Vol. 3*, Brandon, VT: Clinical Psychology Publishing Company. Pp. 125-165.
- (h) Giving advice on social dynamics. *The National Research Council in 1978*. Washington: The National Academy of Sciences. Pp. 33-44.

1979

- (a) Suppes' contributions to the theory of measurement. In R.J. Bogden (Ed.) *Patrick Suppes*. Dordrecht: D. Reidel. Pp. 83-110.
- (b) (Heyman, G.M., & - - -) Operant matching does not result from maximizing reinforcement rate. *Animal Learning and Behavior*, 7, 133-140.
- (c) (Heyman, G.M., & - - -) Reply to Rachlin's comment. *Animal Learning and Behavior*, 7, 269-270.

1980

- (a) (Baird, J.C., Green, D.M., & - - -) Variability of sequential effects in cross-modality matching of areas and loudness. *Journal of Experimental Psychology: Human Perception and Performance*, 6, 227-289.
- (b) (Green, D.M., - - -, & Smith, A.F.) Individual magnitude estimates for various distributions of signal intensity. *Perception & Psychophysics*, 27, 483-488.
- (c) Several possible measures of risk. *Theory and Decision*, 12, 217-228. (1981) Correction to "Several possible measures of risk." *Theory and Decision*, 13, 381.
- (d) (- - -, Baird, J.C., Green, D.M., & Smith, A.F.) Two classes of models for magnitude estimation. *Journal of Mathematical Psychology*, 22, 121-148.
- (e) Comments on Chapters by MacCrimmon, Stanbury, and Wehrung; and Schum. In T.S. Wallsten (Ed.) *Cognitive Processes in Choice and Decision Behavior*. Hillsdale, NJ: Erlbaum, 1980. Pp. 155-177.

1981

- (a) Axioms for the averaging and adding representations of functional measurement. *Mathematical Social Sciences*, 1, 139-144.

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