CURRICULUM VITAE

June 9, 2012

Name: **Stephen Edward Edgell**

Date of Birth: June 20, 1947

Place of Birth: Inglewood, California

Marital Status: Married (no children)

Business Address: Before the stroke that forced me to retire I was a professor
                    I'm now a professor emeritus
                     Department of Psychological and Brain Sciences
                    University of Louisville
                    Louisville, KY 40292
                    (502) 852-5948 (office)
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                    Louisville, KY 40241
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Educational Background

Undergraduate Training:

El Camino Junior College, Gardena, California (1965-1968)
A.A. in Mathematics, 1968

California State University, Long Beach, California (1968-1970)
B.A. Double major in Mathematics and Psychology, 1970

Graduate Training:

Indiana University, Bloomington, Indiana (1970-1974)
Ph.D. in Mathematical Psychology with a minor in Mathematics, 1974

University of Louisville, Louisville, Kentucky
M.A. in Mathematics, 1987

Employment, Assistantships and Fellowships

Professor and Vice Chair in Psychological and Brain Sciences at University of Louisville (2004-pres) (I had stroke 6/1/06 that left me a hemiplegic. I am now retired.)

Professor in Psychological and Brain Sciences at University of Louisville (1985-pres)

Professor and Director of the Program in Experimental Psychology at University of Louisville (1988-1991)

Associate Professor in Psychology at University of Louisville (1980-1985)

Associate Professor in Psychology Louisville and Director of the Experimental Psychology Program at University of Louisville (1983)

Manager of Software Development at Shelton Metrology Laboratory, Paducah, Kentucky (Summer, 1979)

Assistant Professor in Psychology at University of Louisville (1974-1980)

Associate Instructor at Indiana University (1973-1974)

Indiana University Fellowship (1972-1973)

Research Assistantship at Indiana University (Computer systems programmer) (Summer, 1972)

Departmental Teaching and Research Assistantship at Indiana University (1971-1972)

NIMH Mathematical Psychology Training Fellowship (1970-1971)

Consulting Activities

I provided consulting services in the areas of statistical analysis and experimental design. I have provided consulting services to business management in a variety of areas including product design, customer profile analysis, management decision making support, company acquisition, etc. My work has included verifying the work of other consultants. I have provided consulting to clients involved in legal actions and have testified on numerous occasions. I have provided consulting on numerous occasions on the issue of discrimination both in the business setting and in the legal setting.

Professional Organizations (that I used to be a member of)

Judgment and Decision Making Society (JDM)
  Secretary/Treasurer (1986-1989), Newsletter Editor (2000-2002)

Society for Mathematical Psychology

The American Statistical Association

The Psychometric Society

The Psychonomic Society

Cognitive Science Society

Medical Decision Making Society

The Society of the Sigma Xi

Biographical Listings

Who's Who in America

Who's Who in Science and Engineering

Who's Who in the South and Southwest

Who's Who in the World

Who's Who in Medicine and Healthcare

Who's Who in American Education

Publications

Edgell, S.E., Geisler, W.S., III, & Zinnes, J.L. (1973). A note on a paper by Rumelhart and Greeno. *Journal of Mathematical Psychology*, *10*, 86-90.

Castellan, N.J., Jr., & Edgell, S.E. (1973). An hypothesis generation model for judgment in nonmetric multiple-cue probability learning. *Journal of Mathematical Psychology*, *10*, 204-222.

Edgell, S.E., & Castellan, N.J., Jr. (1973). The configural effect in multiple-cue probability learning. *Journal of Experimental Psychology*, *100*, 310-314.

Edgell, S.E. (1974). Real time EXF for Single Use Basic, *Decus Program Library* #11-167.

Edgell, S.E. (1978). Configural information processing in two-cue probability learning. *Organizational Behavior and Human Performance*, *22*, 404-416.

Edgell, S.E. (1979). A statistical check of DEC system - 10 FORTRAN pseudorandom number generator. *Behavioral Research Methods and Instrumentation*, *11*, 529-530.

Edgell, S.E. (1980). Higher order configural information processing in non-metric multiple-cue probability learning. *Organizational Behavior and Human Performance*, *25*, 1-14.

Himmelfarb, S., & Edgell, S.E. (1980). The additive constants model: A randomized response technique for eliminating evasiveness to quantitative response questions. *Psychological Bulletin*, *87*, 525-530.

Edgell, S.E., & Geisler, W.S. (1980). A set-theoretic random utility model of choice behavior. *Journal of Mathematical Psychology*, *21*, 265-278.

Edgell, S.E., & Hennessey, J.E. (1980). Irrelevant information and event base rates in nonmetric multiple-cue probability learning. *Organizational Behavior and Human Performance*, *26*, 1-6.

Himmelfarb, S., & Edgell, S.E. (1982). Note on the randomized response approach: Addendum to Fox and Tracy. *Evaluation Review*, *6*, 279-284.

Publications (cont.)

Edgell, S.E., Himmelfarb, S., & Duchan, K.L. (1982). Validity of forced responses in a randomized response model. *Sociological Methods & Research*, *11*, 89-100.

Edgell, S.E., Himmelfarb, S., & Cira, D.J. (1982). The efficiency of estimating correlation with two forms of the randomized response technique. *Survey Research Methods Section Proceedings of the American Statistical Association*, 511-515.

Edgell, S.E. (1983). Delayed exposure to configural information in nonmetric multiple-cue probability learning. *Organizational Behavior and Human Performance*, *32*, 55-65.

Edgell, S.E., & Noon, S.M. (1984). Effect of violation of normality on the t test of the correlation coefficient. *Psychological Bulletin*, *95*, 576-583.

Edgell, S.E. (1986). Mathematical psychology today. *Contemporary Psychology*, *31*, 48-49.

Edgell, S.E., Himmelfarb, S., & Cira, D.J. (1986). The statistical efficiency of using two quantitative randomized response techniques to estimate correlation. *Psychological Bulletin*, *100*, 251-256.

Edgell, S.E., & Morrissey, J.M. (1987). Delayed exposure to additional relevant information in nonmetric multiple-cue probability learning. *Organizational Behavior and Human Decision Processes*, *40*, 22-38.

Edgell, S.E., & Hertel, S.A. (1989). Running laboratory experiments using the RSX operating system and FORTRAN on the PDP-11. *Behavior Research Methods, Instruments, & Computers*, *21*, 303-306.

Hertel, S.A., & Edgell, S.E. (1991). Input protection for the laboratory computer. *Behavior Research Methods, Instruments, and Computers in Psychology*, *23*, 387-394.

Hennessey, J.E., & Edgell, S.E. (1991). Hindsight bias in a very sparse environment. *Bulletin of the Psychonomic Society*, *29*, 433-436.

Publications (cont.)

Edgell, S.E., & Morrissey, J.M. (1992). Separable and unitary stimuli in nonmetric multiple-cue probability learning. *Organizational Behavior and Human Decision Processes*, *51*, 118-132.

Edgell, S.E., Duchan, K.L., & Himmelfarb, S. (1992). An empirical test of the unrelated question randomized response technique. *Bulletin of the Psychonomic Society*, *30*, 153-156.

Edgell, S.E., Bright, R.D., Ng, P.C., Noonan, T.K., & Ford, L.A. (1992). The effect of representation on the processing of probabilistic information. In B. Burns (Ed.), *Percepts, concepts, and categories: The representation and processing of information* (pp. 569-601). New York: Elsevier.

Edgell, S.E. (1993). Using configural and dimensional information. In N.J. Castellan, Jr. (Ed.), *Current issues in individual and group decision making* (pp. 43-64). Hillsdale, New Jersey: Erlbaum.

Edgell, S.E., & Roe, R.M. (1995). Dimensional information facilitates the utilization of configural information: A test of the Castellan-Edgell and the Gluck-Bower models. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 21,* 1495-1508.

Edgell, S.E. (1995). Commentary on "accepting the null hypothesis." *Memory and Cognition, 23,* 525.

Edgell, S.E., Crawford, R.L., Heffelfinger, C., & Kowalski, K.L. (1995). Textual changes in the pre-revision Hardy Boys. *Yellowback Library, (129),* 5-8.

Edgell, S.E., Roe, R.M., & Dodd, C.H. (1996). Base rates, experience, and the big picture. *Behavioral and Brain Sciences, 19,* 21.

Edgell, S.E., Castellan, N.J., Jr., Roe, R.M., Barnes, J.M., Ng, P.C., Bright, R.D., & Ford, L.A. (1996). Irrelevant information in probabilistic categorization. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 22,* 1463-1481.

Edgell, S.E., McCabe, S.J., Breidenbach, W.C., Neace, W.P., LaJoie, A.S., & Abell, T.D. (2001). Different reference frames can lead to different hand transplantation decisions by patients and physicians. *Journal of Hand Surgery, 26A,* 196-200.

Publications (cont.)

Edgell, S.E., McCabe, S.J., Breidenbach, W.C., LaJoie, A.S., & Abell, T.D. (2003). Predicting the Outcome of Carpal Tunnel Release, *Journal of Hand Surgery, 28A*, 255-261.

Nahinsky, I.D., Lucas, B.A., Edgell, S.E., Overfelt, J., and Loeb, R. (2004). How learning one category influences the learning of another: Intercategory generalization based on analogy and specific stimulus information, *American Journal of Psychology, 117,* 317-340*.

Edgell, S.E., Harbison, J.I., Neace, W.P., Nahinsky, I.D., & LaJoie, A.S. (2004). What is learned from experience in a probabilistic environment. *Journal of Behavioral Decision Making, 17,* 213-229.

LaJoie, AS, McCabe, SJ, Thomas, B, & Edgell, SE (2005). Determining the Sensitivity and Specificity of Common Diagnostic Tests for Carpal Tunnel Syndrome Using Latent Class Analysis. *Plastic & Reconstructive Surgery. 116*, 502-507.

Edgell, S.E. (2007) Decision analysis in hand transplantation. In V.S. Gorantla & W.C. Breidenbach (Eds.), *Hand Transplantation.* Austin, Texas: Landes Bioscience.

Papers Read at Meetings

Castellan, N.J., Jr., & Edgell, S.E. Hypothesis generation models of judgment in multiple-cue probability learning. Read at 5th Mathematical Psychology Meetings, LaJolla, California, 1972.

Edgell, S.E. Generalization of the configural effect in multiple-cue probability learning. Read at Midwestern Psychology Association Meeting, 1975.

Edgell, S.E., Himmelfarb, S., & Cira, D.J. The efficiency of estimating correlation with two forms of the randomized response technique. Read at the Joint Statistical Meeting, Cincinnati, 1982.

Edgell, S.E. Massed vs. spaced information in nonmetric multiple-cue probability learning. Read at the Psychonomics Society Meeting, Minneapolis, 1982.

Edgell, S.E. Delayed exposure to additional relevant information in nonmetric multiple-cue probability learning. Presented at the Psychonomics Society Meeting, San Antonio, 1984.

Castellan, N.J., Bedard, A.T., & Edgell, S.E. Sensitivity to configural information in multiple-cue decision tasks. Presented at Midwestern Psychological Association Meeting, Chicago, 1985.

Invited discussant at Organizational Policy and Development Conference, Louisville, 1986.

Edgell, S.E., & Castellan, N.J. Relevant information is worse than irrelevant information. Presented at the Psychonomics Society Meeting, New Orleans, 1986.

Noonan, T.K., & Edgell, S.E. The effect of cue saliency in probability learning paradigms. Presented at the Psychonomics Society Meeting, Seattle, 1987.

Invited Panelist at Anthropologists and Sociologists of Kentucky Annual Meeting, Louisville, 1987.

Papers Read (cont.)

Edgell, S.E., & Hertel, S.A. Running laboratory experiments using the RSX operating system and FORTRAN on the PDP-11. Presented at the Society for Computers in Psychology Meeting, Chicago, 1988.

Invited facilitator minicomputers and mainframes users group at the Society for Computers in Psychology Meeting, Chicago, 1988.

Edgell, S.E., Ng, P.C., Bright, R.D., & Ford, L.A. The effect of irrelevant information on utilization of configural information. Presented at the Psychonomic Society Meeting, Chicago, 1988.

Edgell, S.E., Campbell, M.R., & Davitt, R.M. Choosing between choice models. Presented at the Psychometric Society Meeting, Los Angeles, 1988.

Edgell, S.E., & Bright, R.D. What's new in nonmetric multiple-cue probability learning. Presented at the Society for Judgment and Decision Making Meeting, Atlanta, 1989.

Edgell, S.E. Using configural and dimensional information. Invited presentation at the 98th annual convention of the American Psychological Association, Boston, 1990.

Invited organizer and chair of the symposium: Science Weekend--Decision-Making Track: Decision-Making: Processing probabilistic information at the 98th annual convention of the American Psychological Association, Boston, 1990.

Edgell, S.E. Relevant dimensional information facilitates the utilization of configural information. Presented at the Society for Judgment and Decision Making Meeting, New Orleans, 1990.

Barnes, J.M., & Edgell, S.E. Salience of irrelevant information in a probabilistic environment. Presented at the Psychonomic Society Meeting, San Francisco, 1991.

Barnes, J.M., & Edgell, S.E. Salience of irrelevant information in a probabilistic environment. Presented at the Society of Judgment and Decision Making Meeting, San Francisco, 1991.

Papers Read (cont.)

Edgell, S.E. Relevant dimensional information facilitates the utilization of configural information II. Presented at the Psychonomic Society Meeting, St. Louis, 1992.

Edgell, S.E. Relevant dimensional information facilitates the utilization of configural information II. Presented at the Society for Judgment and Decision Making Meeting, St. Louis, 1992.

Edgell, S.E., Roe, R.M., & Zurada, J.M. Connectionist modeling of learning in a probabilistic (decision making) environment. Presented at the Psychonomic Society Meeting, Washington, D.C., 1993.

Edgell, S.E., Roe, R.M., & Zurada, J.M. Connectionist modeling of learning in a probabilistic (decision making) environment. Presented at the Society for Judgment and Decision Making Meeting, Washington, D.C., 1993.

Edgell, S.E., Roe, R.M., & Dodd, C.H. Modeling the learning of probabilistic categories. Presented at the Psychonomic Society Meeting, Los Angeles, 1995.

Edgell, S.E., Roe, R.M., & Dodd, C.H. Modeling performance in a probabilistic (decision making) environment. Presented at the Society for Judgment and Decision Making Meeting, Los Angeles, 1995.

Edgell, S.E., Roe, R.M., Ahn, W., Graham, L.M., & Neace, W.P. A failure to support support theory. Presented at the Psychonomic Society Meeting, Chicago, 1996.

Edgell, S.E., Roe, R.M., Ahn, W., Graham, L.M., & Neace, W.P. A failure to support support theory. Presented at the Society for Judgment and Decision Making Meeting, Chicago, 1996.

Roe, R.M., Edgell, S.E., & Neace, W.P. Sequential versus simultaneous presentation in probabilistic categorization learning. Presented at the Psychonomic Society Meeting, Philadelphia, 1997.

Papers Read (cont.)

Roe, R.M., Edgell, S.E., & Neace, W.P. Sequential versus simultaneous presentation of information in a probabilistic, decision-making-like environment. Presented at the Society for Judgment and Decision Making Meeting, Philadelphia, 1997.

Edgell, S.E., & Neace, W.P. Cue competition and salience in probabilistic categorization learning. Presented at the Psychonomic Society Meeting, Dallas, 1998.

Neace, W.P., & Edgell, S.E. Failure to prime configural information processing. Presented at the Society for Judgment and Decision Making Meeting, Dallas, 1998.

Edgell, S.E., Neace, W.P., & LaJoie, A.S. Cue competition and salience in probabilistic categorization learning II. Presented at the Psychonomic Society Meeting, Los Angeles 1999.

Edgell, S.E., Nahinsky, I.D., Neace, W.P., LaJoie, A.S., Dodd, C.H., & Barnes, J.M. What is learned from experience in a probabilistic environment. Presented at the Psychonomic Society Meeting, New Orleans, 2000.

Edgell, S.E., Neace, W.P., LaJoie, A.S., & McCabe, S.J. Utilization of configural signs. Presented at the Society for Judgment and Decision Making Meeting, New Orleans, 2000.

LaJoie, A.S., McCabe, S.J., & Edgell, S.E. A comprehensive approach to the management of carpal tunnel syndrome. Presented at the American Society for Peripheral Nerve Meeting, San Diego, 2001.

McCabe, S.J., Edgell, S.E., LaJoie, A.S., & Harter, T. The relationship between probability and electrical testing in carpal tunnel syndrome. Presented at the American Society for Peripheral Nerve Meeting, San Diego, 2001.

LaJoie, A.S., McCabe, S.J., & Edgell, S.E. The use of decision analysis to aid in the management of carpal tunnel syndrome. Presented at the American Association of Hand Surgery Meeting, Cancun, 2002

Edgell, S.E., McCabe, S.J., Breidenbach, W.C., & LaJoie, A.S. Deciding about a hand transplant. Presented at the Society for Judgment and Decision Making meeting, Kansas City, 2002

LaJoie, A.S., Edgell, S.E., Lorenz, D.J., & McCabe, S.J. A study of the influence of affect on utility assessment and decision making. Presented at the Society for Medical Decision Making meeting, Chicago, 2003

Papers Read (cont.)

McCabe, S., LaJoie, A.S., Hussein, M., & Edgell, S. Circumventing the need for a gold standard in diagnostic test research by using the expaded form of Bayes' theorem. Presented at the Society for Medical Decision Making meeting, Chicago, 2003

Neace, W.P. & Edgell, S.E. Reasoning mode and conjunction errors: A dual-reasoning mode perspective. Presented at the Society for Judgment and Decision Making Meeting, Vancouver, 2003

Harbision, J.I., & Edgell, S.E. Probability learning in language and judgment. Presented at the Psychonomics Society Meeting, Vancouver, 2003

LaJoie, A.S., McCabe, S.J., & Edgell, S.E. A threshold approach to the management of carpal tunnel syndrome. Presented at the 9th congress of the International Federation of Societies for Surgery of the Hand meeting, Budapest, 2004.

Lajoie, A.S., McCabe, S.J., Harter, B.T., & Edgell, S.E. Quality of life in patients with carpal tunnel syndrome. Presented at the 9th congress of the International Federation of Societies for Surgery of the Hand meeting, Budapest, 2004.

LaJoie, A.S., McCabe, S.J., & Edgell, S.E. Using latent class analysis to estimate test accuracy for common measures of carpal tunnel syndrome, Presented at the Society for Medical Decision Making Meeting, Atlanta, 2004.

Harbison, J.I. & Edgell, S.E. Visual and auditory sequential pattern learning. Presented at the annual meeting of the Object Perception, Atention, and Memory Society, Minnesota, 2004.

Edgell, S.E., Harbison, J.I., & Brian, E.S. Salience effects in learning in a probabilistic environment. Presented at the annual meeting of the Society for Judgment and Decision Making, Toronto, 2005

Harbison, J.I. & Edgell, S.E. Natural frequencies and evolution. Presented at the annual meeting of the Society for Judgment and Decision Making, Toronto, 2005

Dissertation Title

Configural Information Processing in Decision Making

Research Interests

Judgment, decision making, and choice with an emphasis on using mathematical models. While the main interest is theoretical there is also a strong interest in the applied aspects of this area. Related to this is an interest in connectionist modeling, artificial intelligence, and computer simulation of decision making, including the Bayesian methods. I am currently working on a large multifaceted research project on diagnosing carpal tunnel syndrom and prescribing treatments.   Further interest lies in the investigation and development of statistical techniques.

Teaching Interests

Mathematical and cognitive psychology in general at the undergraduate level and specifically in the various areas of judgment, decision making, choice, and mathematical models at the graduate level.

Statistical theory and applications in psychology, including most areas at both the undergraduate level and the graduate level as well as more advanced graduate level courses (including multivariate and Bayesian).

Applied decision making

Computerized applications in psychology including behavior simulation, laboratory control, and data analysis at both the undergraduate and graduate levels with both introductory courses and more advanced courses in specific areas.

General undergraduate courses in introductory psychology, introductory experimental methods, and more advanced laboratory or lecture courses in the general areas of human learning and cognitive processes.

Courses Taught

Undergraduate

      Introductory Psychology
      Experimental Methods
      Statistics
      A combined course of Experimental Methods and Statistics
      Tests and Measurements
      Cognitive Processes

Graduate (In Psychology)

      Advanced Statistics I (general first semester graduate statistics)
      Advanced Statistics II (ANOVA)
      Advanced Statistics III (Multivariate)
      Computer Applications I (A tool skill course in FORTRAN programming and canned programs)
      Computer Applications II (Advanced techniques, e.g., simulation and artificial intelligence)
      Advanced Seminars in Decision Making
      First Year Graduate Research Practicum
      Seminar on the Use of Fuzzy Set Theory in Psychology
      Research in Cognition Seminar
      Seminar in Applied Decision Analysis

Graduate (in School of Public Health)

      Decision Analysis

Continuing Studies Adult Education

      Basic Programming I
      Basic Programming II