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EDUCATION:

Ph.D. 1971 Cornell University (Psychometrics & Research Design Methodology).

Dissertation: Canonical Analysis When Number of Variables is Large
Relative to Sample Size.

A.B. 1968 Cornell University (Mathematics).

PROFESSIONAL EXPERIENCE:

New York University:

Vice Provost for Faculty Affairs, 9/99 – present.

Steinhardt School of Education, Program of Quantitative Methods

Professor 9/81 - present
Associate Professor 9/74 - 9/81
Assistant Professor 9/71 - 9/74

Faculty of Arts and Science, affiliated member, Department of Psychology

Faculty Senators Council (University-wide faculty governance body)

Chairperson 1996-1997
Vice-Chairperson 1995-1996
Secretary 1994-1995

Other:

President's Council of Cornell Women, 9/96 - present., member Steering Committee, 9/98 – 8/03

Cornell University Council, 7/00 – present.

Jewish Foundation for the Education of Women, Board member, 3/02 – 10/04
Board Vice President, 10/04 - present

TEACHING EXPERIENCE:

Introductory Statistics, Multivariate Analysis, Factor Analysis, Multidimensional Scaling, Research Design, Computer Applications.

SELECTED FUNDED RESEARCH:

Capturing High-Risk Students in Classroom-Based Surveys. National Institute for Drug Abuse. Sally Guttmacher, principal investigator, Sharon L. Weinberg and Beth Weitzman, co-principal investigators. September 1, 1997-August 31, 1999. Total budget: \$850,000.

Reconceptualizing Mathematics Teaching and Learning Through Professional Development. National Science Foundation grant to Community School District #2. Frances R. Curcio and Sharon L. Weinberg, Principal Evaluators. September 1, 1998 - August 31, 2003. Total budget: \$562,500.

Problem-solving in persons with acquired brain injury. Department of Health and Services, National Institute of Child Health and Human Development. Statistician. Dr. Leonard Diller, Rusk Institute of Rehabilitation Medicine, Medical Center, principal investigator. Sharon L. Weinberg, statistician. May 1, 1996 – April 30, 2001; Total Direct Costs: \$975,893.

Referring At-Risk Pupils to Special Education. Jay Gottlieb and Sharon L. Weinberg, co-principal investigators. U.S. Department of Education, Office of Educational Research and Improvement. 1992-94. Total budget: \$68,783.

An Evaluation of the Fisher-Landau Program at The Dalton School. Sharon L. Weinberg, principal investigator, Fisher-Landau Foundation, 1991-93. Total budget: \$73,000.

PUBLICATIONS: JOURNAL ARTICLES AND REVIEWS

Curcio, F.R., Scher, D., & Weinberg, S.L. (2005). Using scenario tasks to elicit teachers' algebraic thinking: A recommendation for professional development. *NCSM Journal of Mathematics Education Leadership*, 7(2), 3-10.

Weinberg, S.L. (Fall, 2004). The higher education act: Possible implications for accountability and the assessment of student achievement. *Network: A journal of faculty development.*, on-line.

Weitzman, B.C., Guttmacher, S., Weinberg, S.L., & Kapadia, F. (2003). Low response rate schools in surveys of adolescent risk-taking behaviors: Possible biases, possible solutions. *Journal of Epidemiology & Community Health*. 57(1), 63-67.

Guttmacher, S., Weitzman, B.C., Kapadia, F., & Weinberg, S. L. (2002). Classroom based surveys of adolescent risk-taking behavior: Reducing the bias of absenteeism. *American Journal of Public Health*, 92:2, 235-237.

Weinberg, S.L. & Abramowitz, S. (July, 2000). Making general principles come alive in the classroom through an active case studies approach. *Journal of Statistics Education*, v. 8, n. 2, pp. 15, on-line.

Tomasi, S. & Weinberg, S. L. (1999). Classifying children as learning disabled: An analysis of current practice in an urban setting. *Learning Disability Quarterly*, 22, 31-42.

Gottlieb, J. & Weinberg, S. L. (1999). Reasons for referral: A comparison of children referred and not referred for special education. *Elementary School Journal*, 99(3), 187-199.

Weinberg, S. L. (1998). [Review of the Stokes/Gordon Stress Scale.] In J.C. Impara & B.S. Plake (Eds.), *The thirteenth mental measurements yearbook* (pp. 958-959). Lincoln, NE: *Buros Institute of Mental Measurements*.

Weinberg, S. L. (1998). [Review of the Coping Resources Inventory for Stress.] In J.C. Impara & B. S. Plake (Eds.), *The thirteenth mental measurements yearbook* (pp. 318-319). Lincoln, NE: *Buros Institute of Mental Measurements*.

Keller, D., Galanter, M & Weinberg S. L. (1997). Validation of a Scale for Network Therapy: A Technique for Systematic Use Of Peer and Family Support in Addiction, Treatment. *The American Journal of Drug and Alcohol Abuse*, 23, 115-127.

Cosentino, C. E., Meyer-Bahlburg, H. F. L., Alpert, J. L., Weinberg, S. L. & Gaines, R. (1996). Sexual Behavior Problems and Psychopathology Symptoms in Sexually Abused Girls. *Journal of the American Academy of Child Adolescent Psychiatry*.

Tittle, C. K., Weinberg, S. L. & Hecht, D. (1996). Investigating the Construct Validity of Scores from a Measure of Student Perceptions About Mathematics Classroom Using a Multidimensional Scaling. *Educational and Psychological Measurement*, 56 (4), 701-709.

Weinberg, S. L. & Potter D. (1995). Are Girls Better Math Students Sans Boys, (Or Vice Versa)? *The Scarsdale Inquirer*, Volume 76, No. 8, p. 7.

Russek, B. E. & Weinberg, S. L. (1993). Mixed Methods of a Study of Implementation of Technology-Based Materials in The Elementary Classroom. *Evaluation and Program Planning*, 16, 131-142.

Weinberg, S. L. & Menil, V. (1993). The Recovery of Structure in Linear and Ordinal Data: INDSCAL Versus ALSCAL. *Multivariate Behavioral Research*, 28, 215-233.

Parsons, L. & Weinberg, S. L. (1993). The Sugar Scoring System for The Bender Gestalt Test: An Objective Approach that Reflects Clinical Judgment. *Perceptual and Motor Skills*, 77, 883-893.

Weinberg, S. L., Yacker, N., Orenstein, S. H. & DeSarbo, W. S. (1993). Care and Justice Moral Reasoning: A Multidimensional Scaling Approach. *Multivariate Behavioral Research*, 28, 435-465.

Weinberg, S. L. (1993). The Hedges and Friedman Index: Two-Tailed Significance. *Review of Educational Research*, 63, 527-529.

Weinberg, S. L. (1991). An Introduction to Multidimensional Scaling. *Measurement and Evaluation in Counseling and Development*, 24, 12-36.

Weinberg, S. L. (1991). Math Anxiety Rating Scale: A Review. In Jane Conoley & Jack J. Kramer (Eds.), *The Mental Measurements Yearbook*. Accession Number AN-11080864.

Weinberg, S. L. (April 1991). *Test of Word Finding: A Review*. In Jane Conoley & Jack J. Kramer (Eds.), *The Mental Measurements Yearbook*. Accession Number AN-11040865.

Yacker, N. & Weinberg, S. L. (1990). Care and Justice Moral Orientation: A Scale for its Assessment. *Journal of Personality Assessment*, 55, 18-27.

Weinberg, S. L. (1989). A Review of Multidimensional Scaling: Concepts and Applications by Green, Carmone, and Smith. *Journal of Classification*, 6, 279-284.

Weinberg, S. L. & Tittle, C. K. (1987). Congruence of Real and Ideal Job Characteristics: A Focus on Sex, Parenthood Status, and Extrinsic Characteristics. *Journal of Vocational Behavior*, 30, 227-239.

Weinberg, S. L. (1985). The ACER Higher Tests: A Review. In James V. Mitchell, Jr. (Ed.), *The Ninth Mental Measurements Yearbook*, 12-14.

Weinberg, S. L. (1985). The Three R's Test: A Review. In James V. Mitchell, Jr. (Ed.), *The Ninth Mental Measurements Yearbook*, 1623-1628.

Weinberg, S. L. (1984). M. L. Davison's Multidimensional Scaling: A Critical Review. *Journal of Mathematical Psychology*, 289, 351-356.

Weinberg, S. L., Carroll, J. D. & Cohen, H. S. (1984). Confidence Regions for INDSCAL Using The Jackknife and Bootstrap Techniques. *Psychometrika*, 49, 475-491.

Weinberg, S. L. & Richardson, M. S. (1981). Dimensions of Stress in Early Parenting. *Journal of Consulting and Clinical Psychology*, 49, 686-693.

Leeb, S. L. & Weinberg, S. L. (1977). The Unreliability of Difference Scores: A Clarification of the Issues. *Psychological Reports*, 40, 931-935.

Weinberg, S. L. & Darlington, R. B. (1976). Canonical Analysis When Number of Variables Is Large Relative to Sample Size. *Journal of Educational Statistics*, 1, 313-332.

Chasen, B. & Weinberg, S. L. (1975). Diagnostic Sex-Role Bias: How Can We Measure It? *Journal of Personality Assessment*, 39, 620-629. Abstracted in *Measures of Educational Equity for Women: A Research Monograph*. WEEAP. U. S. Department of Health, Education and Welfare, Office of Education, American Institute for Research, 1977, 75-77.

Darlington, R. B., Weinberg, S. L. & Walberg, H. L. (1973). Canonical Variate Analysis and Related Techniques. *Review of Educational Research*, 43, 433-454.

PUBLICATIONS: BOOKS AND BOOK CHAPTERS

Weinberg, S.L. (in press). Grade inflation: An examination at the institutional level. In Sawilowsky, S. (Ed.) *Real data analysis*. Washington, DC: American Educational Research Association: SIG/Educational Statisticians.

Weinberg, S.L. & Abramowitz, S. (2002). *Data Analysis for the Behavioral Sciences Using SPSS*. London: Cambridge University Press, 752 pp.

Weinberg, S. L. & Carroll, J. D. (1994). Variable Importance in Multidimensional Scaling. In Bruce Thompson (Ed.), *Advances in Social Sciences Methodology*, Volume 3, pp. 159-183. Greenwich, CT: JAI Press, Inc.

Weinberg, S. L. & Carroll, J.D. (1992). Multidimensional Scaling: An Overview with Applications in Educational Research. In Bruce Thompson (Ed.), *Advances in Social Sciences Methodology*, Volume 2, pp. 99-135. Greenwich, CT: JAI Press, Inc.

Weinberg, S. L. & Goldberg, K. P. (1990). *Statistics for the Behavioral Sciences*. Second edition of *Basic Statistics for Education and the Behavioral Sciences*. London: Cambridge University Press.

Weinberg, S. L. & Goldberg, K. P. (1990). *Estadística Basica Para Las Ciencias Sociales*. Mexico City: Nueva Editorial Interamericana, 524 pp.

Weinberg, S. L. (1981). Path Analysis. In Harold E. Mitzel (Ed.), *Encyclopedia of Educational Research*. Sponsored by the American Educational Research Association, Fifth

Edition.

Weinberg, S. L. & Goldberg, K. P. (1979). *Instructor's Manual to accompany Basic Statistics for Education and the Behavioral Sciences*. Boston, MA: Houghton Mifflin Company, 81 pp.

Weinberg, S. L. & Goldberg, K. P. (1979). *Basic Statistics for Education and the Behavioral Sciences*. Boston, MA: Houghton Mifflin Company, 546 pp.

Chasen, B. & Weinberg, S. L. (1976). The Diagnostic Sex-Role Bias Scale. In Orval Johnson (Ed.), *Tests and Measurements in Child Development: A Handbook*. New York: Jossey-Bass Publishers. Also in *Headstart Test Collection*, Princeton, NJ: Educational Testing Service (1976).

Hummel-Rossi, B. & Weinberg, S. L. (1975). Practical Guidelines in Applying Current Theories to the Measurement of Change. *JSAS Catalog of Selected Documents in Psychology*, American Psychological Association.

Darlington, R. B., Weinberg, S. L. & Walberg, H. L. (1975). Canonical Variate Analysis and Related Techniques. In Daniel J. Amick and Herbert J. Walberg (Eds.). *Introductory Multivariate Analysis for Educational, Psychological and Social Research*. Chicago: McCutchan Publishing Corp.

SELECTED REPORTS

Scher, D., Curcio, F.R., & Weinberg, S.L. (2004). *The Development of Prototypical Scenario Tasks to Assess Teachers' Mathematical and Pedagogical Content Knowledge: LSC Project 56*. Report presented to Horizon Research, Chapel Hill, NC., 41 pp.

Weinberg, S. L., Luisi, D. & Shuchman, L. (1993). *The Impact of The Fisher-Landau Program on Dalton School Children: An evaluation at the fourth and seventh grades, 1992-1993*. Report presented to the Headmaster of The Dalton School, 41 pp.

Weinberg, S. L. & Vardi, D. (1992). *An Evaluation of The Fisher-Landau Program at The Dalton School: A focus on the kindergarten level*. Report presented to the Fisher-Landau Foundation Board of Advisors, 185 pp.

Weinberg, S. L., Carroll, J. D. & Cohen, H. S. (1981). *Estimating Confidence Regions for INDESCAL-Derived Group Stimulus Points Using Jackknifing*. Bell Laboratories Technical Memorandum, 46 pp.

SELECTED PAPER PRESENTATIONS

Weinberg, S. L. (1997, April). The null hypothesis testing procedure: Some significant issues. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Weinberg, S. L. (1993, April). *Two-Tailed Significance: The Hedges and Friedman Index*. Discussion presented at the annual meeting of the American Educational Research Association, Atlanta, GA.

Weinberg, S. L. (1992, August). *Conceptualizing Applied Statistics: A current need*. Paper presented at the annual meeting of the American Statistical Association, Boston, MA.

Weinberg, S. L. (1992, April). *A Discussion of Modified Post-Hoc and Other Current Procedures for Data Analysis*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

PROFESSIONAL ACTIVITIES AND HONORS:

Invited chairperson of the External Review Committee for the Department of Measurement, Statistics and Evaluation (EDMS), University of Maryland, March, 1997.

External reviewer, PSC-CUNY Research Award Program, 1996, 1997.

Elected member, President's Council of Cornell Women, 5/96 - present.

Daniel Griffiths Award for Distinguished Research, New York University, School of Education, 1994.

PROFESSIONAL ASSOCIATIONS:

American Educational Research Association (AERA)

Member, Nominations Committee for SIG/ES President, 3/97

Program Chair of SIG/ES for Annual Meeting, 3/90-4/91

President, SIG/ES, 4/91-4/92

American Statistical Association, member

Classification Society of North America (CSNA)

Elected member, Board of Directors, 6/89 - 1/92

Co-Chairman of CSNA Annual Meeting held in NYC, 6/88

Elected member, Board of Directors, 6/85 - 6/88

National Council on Measurement in Education (NCME)

Chairperson, Training and Professional Development Committee, 4/81 – 4/82.

Chairperson, Membership Committee, 9/78 - 4/81

Psychometric Society, member.

Society of Multivariate Experimental Psychology, elected member, 2/84.

EDITORIAL EXPERIENCE:

Ad Hoc Advisory Editor:

Journal of Classification

Journal of Educational Measurement

Journal of Educational Psychology

Journal of Statistics Education

Multivariate Behavioral Research