

**JANET K. HOLT**  
(previous names: Sheehan, Sheehan-Holt)

CURRICULUM VITAE

February, 2002

**Address:**

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DeKalb, IL 60115

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Educational Technology, Research  
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Northern Illinois University  
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**Graduate Faculty Status:** Senior

**EDUCATION**

- Ph.D. Educational Psychology; Statistics and Measurement  
December, 1994. Southern Illinois University-Carbondale  
Dissertation: MANOVA simultaneous test procedures: A comparative  
study of power and robustness.
- M.S. Educational Psychology; Human Learning and Development  
December, 1990. Southern Illinois University-Carbondale  
Thesis: Developmental patterns in probability reasoning
- B.S. Zoology/pre-med, August 1981. Southern Illinois University-Carbondale

**POSITIONS HELD**

- 8/2000 – present Associate Professor  
Department of Educational Technology, Research and Assessment
- 7/1999 –  
8/15/1999 Interim Department Chair  
Department of Educational Technology, Research and Assessment
- 7/1999 – 7/2001 Assistant Department Chair  
Department of Educational Technology, Research and Assessment

1994 – 1999            Assistant Professor  
Department of Educational Psychology, Counseling, and Special  
Education  
Northern Illinois University

**HONORS AND AWARDS**

2001                    Social Science Research Institute Research Fellowship for  
2001-2002

1994                    1994 Outstanding Research Award  
Department of Educational Psychology and Special Education  
Southern Illinois University

1981-present    Phi Kappa Phi Honorary Society

**REFEREED PUBLICATIONS**

**Holt, J.K.,** & Collins, V.L. (2001). Dynamic accountability systems: Multilevel modeling of educational growth. *Multiple Linear Regression Viewpoints*, 27,46 – 52.

**Sheehan-Holt, J. K.** & Smith, M C. (2000). Does basic skills education affect adults' literacy proficiencies and reading practices? *Reading Research Quarterly*,35, 226-243.

*Featured Article:*

**Sheehan-Holt, J. K.** (1998). MANOVA simultaneous test procedures: The power and robustness of restricted multivariate contrasts. *Educational and Psychological Measurement*, 58, 861-881.

Smith, M C., & **Sheehan, J. K.** (1998). Adults' reading practices and their associations with literacy proficiencies. In M C. Smith (Ed.), *Literacy for the 21st century: Research, policy, practices, and the National Adult Literacy Survey*. Westport, CT: Praeger.

Kish, C. K., **Sheehan, J. K.**, Cole, K. B., Struyk, L. R., & Kinder, D. (1997). Portfolios in the classroom: A vehicle for developing reflective thinking. *High School Journal*, 80, 261-272.

Cole, K. B., Struyk, L. R., Kinder, D., **Sheehan, J. K.**, & Kish, C. K. (1997). Portfolio assessment: Challenges in secondary education. *High School Journal*, 80, 254-260.

**Sheehan, J. K.** & Han, T. (1996). Hierarchical modeling techniques to analyze contextual effects: What happened to the aptitude by treatment design?. *Mid-Western Educational Researcher*, 9, 4-7.

### REFEREED PROCEEDINGS

Smith, M C., & Sheehan-Holt, J. K. (1999). Does basic skills education work? Some evidence from the National Adult Literacy Survey. *Proceedings of the 40<sup>th</sup> Annual Adult Education Research Conference*, 303-306.

McDowell, J. H., Smyk-Randall, E. M., Sheehan, J., Szary, A., Jackson, R. W., Adamus, G., & Hargrave, P. A. (1987). Use of monoclonal antibodies to study rhodopsin's topography and function. In S. C. Goheen (Ed.), *Membrane Proteins: Proceedings of the Membrane Protein Symposium* (pp. 71-79). United States: Bio-Rad Laboratories.

### NON-REFEREED PUBLICATIONS

Holt, J.K. (2001). Guest Editor's Introduction. *Multiple Linear Regression Viewpoints*, 27, 1- 2.

### GOVERNMENT REPORT

Smith, MC., & Sheehan-Holt, J.K. (2000). *Evaluation of the 1992 Background Questionnaire: An analysis of uses with recommendations for revisions*. (NCES Working Paper No. 2000-08). Washington, DC: U.S. Department of Education.

### PRESENTATIONS

Holt, J.K., & Campbell, C.S. (accepted for 2002, March) *A statistical methodology for modeling change in mathematics achievement: Examining the influence of school context*. Paper to be presented at the annual meeting of the Eastern Educational Research Association, Sarasota, FL.

Collins, V.L., & Holt, J.K. (2001, October). *Dynamic Accountability Systems to Measure Educational Growth*. Paper presented at the annual meeting of the Mid-Western Educational Research Association, Chicago, IL.

Holt, J.K., Barcikowski, R., Huck, S., Rogers, B., Smith, T.J., Dretzke, B., Leitner, D., & Newman, I. (2001, October). *Teaching an Introductory Statistics Course: Can We Reach Consensus?* Paper presented at the annual meeting of the Mid-Western Educational Research Association, Chicago, IL.

Rogers, B.G., Barcikowski, R., Holt, J., Huck, S., Leitner, D., & Newman, I. (2000, October). *Teaching statistics in the beginning course: A debate of issues*. Paper presented at the annual meeting of the Mid-Western Educational Research Association, Chicago, IL.

Sheehan-Holt, J.K., & Smith, M C. (2000, April) *A review of statistical analyses of the*

*National Adult Literacy Survey: Implications for policy recommendations.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Smith, M C. & **Sheehan-Holt, J.K.** (2000, April) *The relationship of income and other environmental factors to minority adults' literacy.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

**Sheehan-Holt, J.K.** (2000, February). *Statistical Power and Robustness Estimates.* Discussant for session at Eastern Educational Research Association, Clearwater, Florida.

**Sheehan-Holt, J.K.** (1999, October). *Adult literacy: Will it continue to be a problem in the 21st century?* Presented at the 1999 annual meeting of the Mid-Western Educational Research Association, Chicago, IL.

Smith, M C. & **Sheehan-Holt, J. K.** (1999, May). *Does basic skills education work? Some evidence from the National Adult Literacy Survey.* Paper presented at the annual meeting of the Adult Education Research Conference.

**Sheehan-Holt, J. K.** Smith, M C. (1999, April). *The Use of Multilevel Modeling to Uncover Relationships from the National Adult Literacy Survey.* Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.

**Sheehan-Holt, J. K.** (1998, October). *Accountability and responsibility in evaluation and assessment.* Discussant for session at Mid-Western Educational Research Association, Chicago, IL.

**Sheehan, J. K.**, Smith, M C. (1998, April). *Does basic skills education have an effect on adults' literacy proficiencies?* Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.

Shumow, L., Kish, C., **Sheehan, J.K.**, and Peressini, D. (1998, April). *Now that you're finished: Getting that first job.* Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.

**Sheehan, J. K.** (1997, October). *Factor analysis and related studies in Education.* Discussant for the annual meeting of the Mid-Western Educational Research Association, Chicago, IL.

**Sheehan, J. K.**, & Han, T. (1997, March). *Detecting and modeling outliers in 3-level hierarchical model: An examination of growth rates from LSAY.* Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

**Sheehan, J. K.**, Smith, M C., & E, N. (1997, March). *Hierarchical modeling of contextual effects on literacy proficiencies: An analysis of NALS*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

**Sheehan, J. K.** (1996, October). *Program and/or instrument evaluation*. Discussant for session at the Mid-Western Educational Research Association, Chicago, IL.

**Sheehan, J. K.** & Han, T. (1996, April). *How do extreme schools change the interpretation of results in school-effectiveness research?: Effects of outlying second-level variables in HLM*. Paper presented at the American Educational Research Association, New York, NY.

Smith, M. C. & **Sheehan, J. K.** (1996, April). *Racial and ethnic group differences in adults' reading practices*. Paper presented at the American Educational Research Association, New York, NY.

**Sheehan, J. K.** (1995, October). *MANOVA simultaneous test procedures: A comparison of the robustness properties of selected contrasts*. Paper presented at the Mid-Western Educational Research Association, Chicago, IL.

**Sheehan, J. K.** (1995, April). *A comparison of the type I error and power of selected MANOVA simultaneous test procedures*. Paper presented at the American Educational Research Association, San Francisco, CA.

Beasley, T. M., & **Sheehan, J. K.** (1994, October). *Choosing a test statistic based on simultaneous test procedures: A Monte Carlo study of MANOVA with covariance inequalities*. Paper presented at the Mid-Western Educational Research Association, Chicago, IL.

**Sheehan, J. K.**, & Khanna, R. (1993, October). *Effects of unreliability of the concomitant variable on the power of four between-subjects designs*. Paper presented at the Mid-Western Educational Research Association, Chicago, IL.

**Sheehan, J. K.**, & Mouw, J. T. (1992, October). *The development of probabilistic reasoning in children*. Paper presented at the Mid-Western Educational Research Association, Chicago, IL.

Khanna, R., & **Sheehan, J. K.** (1992, October). *Construct validity of the DCAT*. Paper presented at the Mid-Western Educational Research Association, Chicago, IL.

### **FUNDED RESEARCH GRANTS, EXTERNAL**

**Sheehan, J. K.** & Smith, M. C. (1996, September). *Factors affecting adult literacy: A model testing approach for investigating associations among variables in the NALS*. American Educational Research Association Grants Program. Amount: \$24,9991.00.

**FUNDED GRANTS, INTERNAL**

Smith, M C., & **Holt, J.K.** (2001). *Literacy acquisition among low education adults*. NIU Research and Artistry Grants Program. \$2,100 plus summer salary.

**Sheehan, J.K.**, Faculty Development Grant (1996, March). *Updating knowledge of current technology for teaching and conducting research in statistics*. Faculty Career Enhancement Grant Program. Amount: \$1474.00.

**FUNDED PARTICIPATION GRANTS, EXTERNAL**

**Sheehan-Holt, J.K.**, AERA Participant Grant for the Institute of Statistical Research, April 17, 1999-April 19, 1999. Amount: \$500.00.

**Sheehan, J.K.**, AERA Participant Grant for the Institute of Statistical Research, April 22, 1995-April 25, 1995. Amount: \$500.00.

**CONTRACTS AWARDED**

**Holt, J. K.**, & Clemens, A. (2001, December) External Research Partner for *Evaluation of the K-12 School-Based Learn and Serve Program*. Illinois State Board of Education/Lee/Ogle Regional Office of Education.

**Holt, J. K.**, Wallace, S., & Campbell, C. (2000, August) *Understanding Assessment in the Field*. Kane County Schools.

Smith, M C., & **Sheehan-Holt, J. K.** (1999, January). *Evaluation of the National Adult Literacy Background Questionnaire*. Educational Statistics Services Institute for the National Center for Education Statistics.

Daniels, D., & **Sheehan-Holt, J.K.** (1997, August). Mid-Continent Regional Educational Laboratory. Subcontracted for statistical analyses.

Cummings, C., Tollerud, T., **Sheehan, J. K.**, & Meyers, R. (1997, January). *Evaluation of Rockford's secondary schools' counseling programs*. College of Education, Office of Research, Evaluation and Policy Studies.

**DISSERTATIONS DIRECTED**

Li, S. (1999, August). *The relationships between adolescent drug use and family structure and relations: A meta-analysis*. Department of Educational Psychology, Counseling, and Special Education. Co-directed with T. Roberts.

Additionally, I am directing/co-directing 3 dissertations and have sat on over 20 doctoral dissertation committees.

### **MASTERS' THESES DIRECTED**

Kemper, K. (1998, May) *Public middle school teachers' attitudes toward forgiveness education.*

Meeker, M. (1998, May) *Extracurricular participation and self-perceptions in middle school students.*

E, N. (1998, August) *Testing a model of achievement motivation.* Co-directed with J. D'Agostino

### **MASTERS' PROJECTS DIRECTED**

Gieseke, T. (2000, August) *Examination of a project-based educational technology program.*

Johnson, D. (1997, December) *Performance assessment in high school mathematics classes.*

Additionally, I have sat on 3 master's committees.

### **COURSES TAUGHT**

#### **Credit**

#### Northern Illinois University

##### Undergraduate

EPSY 330 Tests and Measurement (secondary) – 6 sections

##### Graduate

ETR 520 Introduction to Educational Research – 4 sections

ETR 521 Educational Statistics I – 14 sections

ETR 522 Educational Statistics II – 3 sections

ETR 530 Test Construction and Evaluation – 3 sections

ETR 560 Computer Data Analysis – 1 section

EPS 608 Advanced Research Seminar in Adolescent Development – 1 section

ETR 620 Educational Research Planning and Interpretation – 2 sections

ETR 622 Methods of Multivariate Analysis – 4 sections

#### Southern Illinois University

EPSY 402 Basic Statistics – 1 section

EDUC 317 Evaluation of Learning and Teaching – 12 sections (lab assistant)

Southeast Missouri State University

MG 352        Quantitative Methods in Business– 1 section

**Non-Credit**

Northern Illinois University

Introduction to Hierarchical Linear Modeling – Social Science Research Institute Summer Seminar, 2001

Intermediate Hierarchical Linear Modeling – Social Science Research Institute Summer Seminar, 2001

Design and Analysis Issues Particular to the Analysis of Educational Surveys – Social Science Research Institute Summer Seminar, 1999

Hierarchical Linear Modeling in the Analysis of Educational Surveys - Social Science Research Institute Summer Seminar, 1999

Design and Statistical Issues particular to the Analysis of Large-Scale Surveys – Social Science Research Institute Summer Seminar, 1998

**PROFESSIONAL ACTIVITIES**

Offices Held

Vice-President Elect (2001-2002), Mid-Western Educational Research Association.

Secretary/Treasurer, (2000-2002) Educational Statisticians SIG of AERA

Chair, (1999-2000) Measurement and Research Methodology Division,  
Mid-Western Educational Research Association.

Editorial Boards

*Measurement and Evaluation in Counseling and Development*, 2000-2003.

*Multiple Linear Regression Viewpoints*, 1999-2001.

Guest Editor

*Multiple Linear Regression Viewpoints* (2001), special issue on Hierarchical Linear Modeling.

Manuscript Reviewer

*Journal of Applied Measurement*, 2000

*Psychological Methods*, 2000 - 2001

*Measurement and Evaluation in Counseling and Development*, 1999 - 2001

*Mid-Western Educational Researcher*, 1997-1998.

Program Proposal Reviewer

American Educational Research Association (1997-1999), Divisions C and D,  
Educational Statisticians SIG, and Multiple Regression/General Linear Model SIG  
Mid-Western Educational Research Association (1997-1998). Divisions C, D, and H

Professional Membership

American Counseling Association --  
Assessment Division  
American Educational Research Association –  
Measurement and Research Methodology Division  
Educational Statisticians SIG  
Multiple Linear Regression SIG  
Structural Equation Modeling SIG  
Mid-Western Educational Research Association  
National Council on Measurement in Education  
American Psychological Association Evaluation, Measurement, and Statistics Division