

VITAE

**Larry Houston Ludlow**

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**Communications:**

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**Education:**

- 1979-1983 University of Chicago: The Department of Education  
Degree: Doctor of Philosophy, December 9, 1983  
Special Field: Measurement, Evaluation, and Statistical Analysis (MESA)  
Dissertation: The Analysis of Rasch Model Residuals. Chairman: Benjamin D. Wright, Ph.D.
- 1973-1976 California State University, Sacramento: The Department of Psychology  
Degree: Master of Arts, May 26, 1976  
Special Field: Statistical analysis  
Thesis: A Multidimensional Comparison of Short and Long-Term Shape Imagery  
Chairman: Bruce Behrman, Ph.D.
- 1968-1972 California State University, Sacramento: The Department of Psychology  
Degree: Bachelor of Arts, June 8, 1973  
Major: Clinical psychology
- 1967-1968 San Juan High School, Citrus Heights, CA
- 1964-1967 General H.H. Arnold High School, Weisbaden, Germany

**Employment History:**

- a) *Teaching*
- 1983- Boston College, Chestnut Hill, MA  
Lynch School of Education  
Chair, Department of Educational Research, Measurement, and Evaluation (2001-present)  
Rank: Professor 2003  
Associate Professor 1989-2003  
Assistant Professor 1984-1989  
Instructor 1983

Courses:

1. Child Development I and II - undergraduate
2. Introduction to Computer Science - undergraduate
3. Quantitative Data Collection Procedures: Theory and Practice - graduate
4. Achievement Test Construction - graduate
5. Interpretation and Evaluation of Research - graduate
6. Statistics for Behavioral Research - graduate
7. Statistics I - graduate
8. Intermediate Statistics - graduate
9. Design of Experiments - graduate
10. Psychometric Theory - graduate
11. Introduction to Multivariate Analysis – graduate
12. General Linear Models - graduate
13. Topics in Multivariate Analysis – graduate
14. Multivariate Analysis - graduate
15. Seminar in Educational Research and Measurement - graduate

16. Research Methods – undergraduate
17. Doctoral dissertation seminar – graduate
18. Visiting Professor: National Institute for Education-Singapore: “Rasch Models”, 2006.
19. Visiting Professor: St. Patrick’s College-Dublin, Ireland: “Research Methods (2)”, 2008, 2011.
20. Visiting Professor: University of Auckland, Auckland, New Zealand. “Statistics”, 2011.

b) *Other*

- 1981-1983 University of Chicago: The Department of Education  
 Title: Research Assistant  
 Project: 1. Taxonomic skills in understanding fiction  
 2. Meta-Analysis of composition literature  
 Supervisor: *George Hillocks, Jr.*, Ph.D.
- 1980-1983 United States Veterans Administration Hospital (Hines, IL)  
 Rehabilitation Research & Development Laboratory  
 Title: Psychology Technician  
 Project: Measurement of attitudes toward blindness. Supervisor: *Ross Lambert*, M.D.
- 1979-1983 University of Chicago: The Department of Education  
 Title: Research Assistant. Supervisor: *Benjamin D. Wright*, Ph.D.
- 1980 University of Chicago: The Department of Education  
 Title: Teaching Assistant. Supervisor: *David Rogosa*, Ph.D.
- 1980 University of Chicago: The Department of Education  
 Title: Teaching Assistant. Supervisor: *Benjamin D. Wright*, Ph.D.
- 1977-1979 Stat-Rats: Sacramento, CA  
 Proprietor of research design and data analysis company
- 1976-1979 California State University, Sacramento: Instructional Support Group (Computer Center)  
 Title: Statistical Consultant. Supervisor: *Linda Downing*, M.A.
- 1976 Research Consulting Service: Sacramento, CA  
 Title: Research Assistant. Supervisor: *Neal Grossen*, Ph.D.
- 1975-1976 California State University, Sacramento: The Department of Psychology  
 Title: Graduate Assistant. Supervisor: *John Doolittle*, Ph.D.
- 1973-1976 Stanford Lathrop Memorial Home: Sacramento, CA  
 Residential child-care counselor. Supervisor: *Vernon Rowe*, M.A.
- 1972 California Youth Authority (Eldorado Ward): Stockton, CA  
 Counselor in Transactional Analysis/Gestalt Therapy. Supervisor: *Lynn Fitzpatrick*, M.A.

**Publications:**

a) Articles

- Ell F, Cochran-Smith M, Grudnoff L, Ludlow L, Hill M, & Haigh M (**Under review**). Mapping a complex system: What influences teacher learning during initial teacher education. *Journal of Teacher Education*.
- Sinnema C, Robinson V, Ludlow LH, & Pope D. (**Under review**). How effective is the principal: Discrepancy between teachers’ and principals’ perceptions of principal effectiveness. *Educational Assessment, Evaluation and Accountability*.
- Brown G, Chan R, & Ludlow LH (**Under review**). A comparison of institutional and student perspectives on the goals and purposes of the bachelor’s degree in the 21<sup>st</sup> century. *The Journal of Higher Education*.
- Ludlow LH, & Klein, K (2014). Suppressor variables: The difference between “is” versus “acting as”. *Journal of Statistics Education*, 22(2), 1-28. <http://www.amstat.org/publications/jse/v22n2/ludlow.pdf>

- Cochran-Smith M, Ell F, Grudnoff L, Ludlow LH, Haigh M, & Hill M. (2014). When complexity theory meets critical realism: A platform for research on initial teacher education. *Teacher Education Quarterly*, 41(1), 105-122.
- Cochran-Smith M, Ell F, Ludlow LH, Grudnoff L, & Aitken G (2014). The challenge and promise of complexity theory for teacher education research. *Teachers College Record*, 116(5), 1-38.
- Nezhnov P, Kardonova E, Vasilyeva M & Ludlow LH. (2014). Operationalizing level of academic mastery based on Vygotsky's theory: The study of mathematical knowledge. *Educational and Psychological Measurement*, <http://epm.sagepub.com/content/early/2014/05/22/0013164414534068>.
- Ludlow LH, Matz-Costa C, Johnson C, Brown M, Besen E, & James JB (2014). Measuring engagement in later life activities: Rasch-based scenario scales for work, caregiving, informal helping, and volunteering. *Measurement and Evaluation in Counseling and Development*. 47(2), 127-149.
- Matz-Costa, C., James, J.B., Ludlow, L., Brown, M., Besen, E., & Johnson, C. (2014). The meaning and measurement of productive engagement in later life. *Social Indicators Research*, 118(3), 1293-1314. doi: 10.1007/s11205-013-0469-6
- O'Leary M, Lysaught Z & Ludlow LH (2013). A measurement instrument to evaluate teachers' assessment for learning classroom practices. *International Journal of Educational and Psychological Assessment*. 14(2), 40-62.
- (90) Sinnema CEL & Ludlow LH (2013). The measurement of responsiveness in curriculum practice: A Rasch approach. *International Journal of Educational and Psychological Assessment*, 12(2), 33-56.
- Cochran-Smith M, Ludlow LH, Ell F, O'Leary M & Enterline S. (2012). Learning to teach for social justice as a cross-cultural concept: Findings from three countries. *European Journal of Educational Research*, 1(2), 171-198.
- Rollison JM, Ludlow LH & Wallingford T (2012). Assessing content knowledge and changes in confidence and anxiety related to economic literacy in a professional development program for history teachers. *Journal of Educational Research and Practice*, 2(1), 15-30. <http://www.publishing.waldenu.edu/jerap/vol2/iss1/2/>
- Dumas HM, Fragala-Pinkham MA, Haley SM, Ni P, Coster W, Kramer JM, Kao YC, Moed R, Ludlow LH. (2012). Computer adaptive test performance in children with and without disabilities: prospective field study of the PEDI-CAT. *Disability Rehabilitation*, 34(5), 393-401.
- Ludlow LH, Rollison J, Cronin J & Wallingford T (2012). Development of the Teaching Economic Literacy: Confidence and Anxiety (TELCA) instrument. *International Journal of Educational and Psychological Assessment*, 9(2), 82-103. <http://tijepa.books.officelive.com/main.aspx>
- Ludlow LH, Pedulla JJ, Reagan EM, Enterline S, Cannady M & Chappe S. (2011). Design and implementation issues in longitudinal research. *Educational Policy Analysis Archives*. North America, 19, apr. 2011. Available at: <http://epaa.asu.edu/ojs/article/view/802/906>
- Haley SM, Coster WJ, Dumas HM, Fragala-Pinkham MA, Kramer J, Ni P, Tian F, Kao Y, Moed R & Ludlow LH (2011). Accuracy and Precision of the Pediatric Evaluation of Disability Inventory Computer Adapted Tests (PEDI-CAT). *Developmental Medicine and Child Neurology*, 53(12), 1100-1106.
- Gable RK, Ludlow LH, McCoach DB & Kite SL (2011). Validation of the Survey of Knowledge of Internet Risk and Internet Behavior. *Educational and Psychological Measurement*. 71(1) 217-230. <http://dx.doi.org/10.1177/0013164410387389>
- Eris O, Chachra D, Chen H, Sheppard S, Ludlow L, Rosca C, Bailey T & Toye G (2010). Outcomes of a longitudinal administration of the Persistence in Engineering Survey. *Journal of Engineering Education*, 99(4), 371-395.
- Ludlow LH, Mitescu E, Pedulla J, Cochran-Smith M, Cannady M, Enterline S & Chappe S. (2010). An accountability model for initial teacher education. *Journal of Education for Teaching*, 36(4), 353-368.
- (80) Chapman L & Ludlow LH (2010). Can downsizing college class sizes augment student outcomes: An investigation of the effects of class size on student learning. *Journal of General Education*, 59(2), 105-123.
- Haley SM, Coster WJ, Kao YC, Dumas HM, Fragala-Pinkham MA, Kramer JM, Ludlow LH & Moed (2010). Lessons from the Pediatric Evaluation of Disability Inventory (PEDI): Where do we go from here? *Pediatric Physical Therapy*, 22, 69-75.
- Morgan M, Ludlow LH, Kitching K, O'Leary M & Clarke A. (2010). What makes teachers tick? Sustaining events in new teachers lives. *British Educational Research Journal*, 36 (2), 191-208. <http://dx.doi.org/10.1080/01411920902780972>
- Cochran-Smith M, Mitescu E, Shakman K and the Boston College TNE Evidence Team. (2009). Just measures: Social justice as a teacher education outcome. *Teacher Education and Practice*, 22(3), 237-263.
- Cochran-Smith M and the Boston College TNE Evidence Team. (2009). "Re-culturing" teacher education: Evidence, Inquiry and Action. *Journal of Teacher Education*, 5, 458-468.
- Haley SM, Ni PS, Jette AM, Tao W, Moed R, Meyers D & Ludlow LH (2009). Replenishing computer adaptive testing (CAT) of daily activities: Analyzing the impact of pre-test items. *Quality of Life Research*. 18: 461-471. <http://dx.doi.org/10.1007/s11136-009-9463-5>

- Vasilyeva M, Ludlow LH, Casey B & St. Onge C (2009). Examination of the psychometric properties of the Measurement Skills Assessment (MeSA). *Educational and Psychological Measurement*, 69, 106-130.
- Dumas HM, Haley SM & Ludlow LH (2008). Achieving a minimally important difference in physical function during pediatric inpatient rehabilitation. *International Journal of Rehabilitation Research*, 31, 257-260.
- Enterline S, Cochran-Smith M, Ludlow LH & Mitescu E. (2008). Learning to teach for social justice: Measuring change in the beliefs of teacher candidates. *The New Educator*, 4, 267-290.
- Ludlow LH, Pedulla J, Enterline SE, Cochran-Smith M, Loftus F, Salomon-Fernandez Y & Mitescu E. (2008). From students to teachers: Using surveys to build a culture of evidence and inquiry. *European Journal of Teacher Education*, 31(4), 319-337.
- (70) Kharasch VS, Dumas HM, Haley SM, Wright EA, Ludlow LH, Jones DT & O'Brien JE. (2008) Bronchoscopy findings in children and young adults with tracheostomy due to congenital anomalies and neurological impairment. *Journal of Pediatric Rehabilitation Medicine: An Interdisciplinary Approach*. 1, 137-143.
- Ludlow, LH, Enterline, S & Cochran-Smith, M (2008) Learning to Teach for Social Justice—Beliefs scale: An application of Rasch measurement principles. *Measurement and Evaluation in Counseling and Development*, 20, 194-214.
- Haley SM, Pengsheng N, Ludlow LH & Fragala-Pinkham M. (2006) Measurement precision and efficiency of multidimensional computer adaptive testing of physical functioning using the Pediatric Evaluation of Disability Inventory. *Archives of Physical Medicine and Rehabilitation*, 87, 1223-1229.
- Burns S. & Ludlow LH. (2006). Understanding student evaluations of teaching quality: The unique contributions of class attendance. *Journal of Personnel Evaluation in Education*. <http://dx.doi.org/10.1007/s11092-006-9002-7>
- Maloy RW, Pine GJ, Seidman I & Ludlow LH. (2006). Arriving on a fast Track: Perceptions of teachers from alternative, campus-based and PDS teacher preparation programs about their first four years in the classroom. *The Teacher Educator*, 42, 106-121.
- Ludlow LH, Haley SM & Andres P. (2005). Measuring change: Functional activity item calibrations at admission vs. discharge. In Bezruczko, N. (ed.) *Rasch Measurement in Health Sciences*. Maple Grove, MN: JAM Press.
- Mahalik JR, Morray EB, Coonerty-Femiano A, Ludlow LH, Slattery S & Smiler A. (2005). Development of the Conformity to Feminine Norms Inventory. *Sex Roles*, 52(7/8), 417-435.
- Ludlow LH (2005). A longitudinal approach to understanding course evaluations. *Practical Assessment Research and Evaluation*, <http://pareonline.net/pdf/v10n1.pdf>.
- Coster WJ, Haley SM, Ludlow LH, Andres PL & Ni PS. (2004) Development of an applied cognition scale to measure rehabilitation outcomes. *Archives of Physical Medicine and Rehabilitation*, 85, 2030-2035.
- Dumas HM, Haley SM, Ludlow LH & Carey TM. (2004). Recovery of ambulation during inpatient rehabilitation: Physical therapist prognosis for children and adolescents with traumatic brain injury. *Physical Therapy* 84(3), 232-242.
- (60) Haley SM, Coster WJ, Andres PL, Ludlow LH, Ni P, Bond TLY, Sinclair SJ & Jette AM. (2004). Activity Outcome Measurement for Post-acute Care. *Medical Care*, 42, 49-61.
- Coster WJ, Haley SM, Andres PL, Ludlow LH, Bond TLY & Ni P. (2004). Refining the conceptual basis for rehabilitation outcome measurement: Personal Care and Instrumental items. *Medical Care*, 42, 62-72.
- Dumas HM, Haley SM, Carey TM, Ludlow LH, & Rabin JP. (2003). Lower extremity spasticity as an early marker of ambulatory recovery following traumatic brain injury. *Child's Nervous System*, 19, 114-118.
- Kharasch VS, Haley SM, Dumas HM, Ludlow LH & O'Brien JE. (2003). Oxygen and ventilator weaning during inpatient pediatric pulmonary rehabilitation. *Pediatric Pulmonology*, 35, 280-287.
- Mahalik JR, Locke B, Ludlow L, Diemer M, Scott PJ, Gottfried M, & Freitas G. (2003). Development of the Conformity to Masculine Norms Inventory. *Psychology of Men and Masculinity*, 4, 3-25.
- Ludlow LH, Shirley D & Rosca C. (2002). The case that won't go away: Besieged institutions and the Massachusetts teacher tests. *Educational Policy Analysis Archives*, 10(50). <http://epaa.asu.edu/epaa/v10n50.html>.
- Ludlow LH (2002). Rethinking practice: Using faculty evaluations to teach statistics. *Journal of Statistics Education*, 10(3). [www.amstat.org/publications/jse/v10n3/ludlow.html](http://www.amstat.org/publications/jse/v10n3/ludlow.html).
- Dumas HM, Haley SM, Ludlow LH, Rabin JP. (2002). Functional recovery in pediatric traumatic brain injury during inpatient rehabilitation. *American Journal of Physical Medicine and Rehabilitation*, 81(9), 661-669.
- Ludlow LH. (2002). Residuals: Trash or treasure? *Popular Measurement*, 4, 1-7. <http://www.rasch.org/publish.htm>.
- Haley SM, Ludlow LH, & Kooyoomjian JT. (2002). Extending the range of functional assessment in older adults: Development of the Late Life Function and Disability Instruments. *Journal of Aging and Physical Activity*, 10, 453-465.

- (50) Haley SM, Ludlow LH, Coster WJ, Langmuir L. (2002). Self-reporting of capable versus typical functional activity performance in community-dwelling older adults: Is there a difference? *Journal of Geriatric Physical Therapy*, 25; 1:02, 3-10.
- Ludlow LH & Mahalik JR. (2001). Congruence between a Theoretical Continuum of Masculinity and the Rasch Model: Examining the Conformity to Masculine Norms Inventory. *Journal of Applied Measurement*, 2, 205-221.
- Haley SM, Dumas HM & Ludlow LH. (2001). Variation by diagnostic and practice pattern groups in the mobility outcomes of inpatient rehabilitation program for children and adolescents. *Physical Therapy*, 81, 1425-1436.
- Ludlow LH & Alvarez-Salvat R. (2001). Spillover in the academy: Marriage stability and faculty evaluations. *Journal of Personnel Evaluation in Education*, 15:2, 111-119.
- Ludlow LH (2001). Teacher test accountability: From Alabama to Massachusetts. *Education Policy Analysis Archives*, 9 (6). <http://epaa.asu.edu/epaa/v9n6.html>.
- Ludlow LH & Alvarez-Salvat R. (2000). Fechner: The man in the mask. *Popular Measurement*, 3, 5-6.
- Ludlow LH & Haley SM. (2000). New directions in pediatric rehabilitation measurement: The growing challenge. *Journal of Outcome Measurement*, 4, 482-490.
- Ludlow LH. (1999). The structure of the Job Responsibilities Scale: A multi-method analysis. *Educational and Psychological Measurement*, 59, 962-975.
- Coster WJ, Mancini MC & Ludlow LH. (1999). Factor structure of the School Function Assessment. *Educational and Psychological Measurement*, 59, 665-677.
- Ludlow LH & O'Leary M. (1999). Omitted and not reached items: Practical data analysis implications. *Educational and Psychological Measurement*, 59, 615-630.
- (40) Ludlow LH & Haley KC. (1999). Newton: The pinball wizard?. *Popular Measurement*, 2, 5-7.
- Coster W, Ludlow LH & Mancini M. (1999). Using IRT variable maps to enrich understanding of rehabilitation data. *Journal of Outcome Measurement*, 3, 123-133.
- Ludlow LH. (1999). Putting the psych in psychometrics. *Popular Measurement*, 2, 50-51.
- Ludlow LH & Lunz M. (1998). The Job Responsibilities Scale: Invariance in a longitudinal prospective study. *Journal of Outcome Measurement*, 2, 326-337.
- Ludlow LH. (1998). Galton: The first psychometrician?. *Popular Measurement*, 1, 13-14.
- Ludlow LH. (1998). Scale invariance from a three-dimensional graphical perspective: Visualizing an eigenvector. *Educational and Psychological Measurement*, 58, 166-178.
- Gonzalez EJ, Adams RJ, Wu M & Ludlow LH. (1997). Item response theory in the Third International Mathematics and Science Study. In: Wilson M, Engelhard Jr. G & Draney K. (eds.). *Objective Measurement: Theory into Practice*. Volume 4. Norwood, NJ., Ablex Publishing.
- Ludlow, L.H. & Bell, K.N. (1996). Psychometric characteristics of the Attitudes Towards Mathematics and its Teaching (ATMAT) Scale. *Educational and Psychological Measurement*, 56, 864-880.
- Ludlow, L.H. (1996). Instructor evaluation ratings: A longitudinal analysis. *Journal of Personnel Evaluation in Education*, 10, 83-92.
- Ludlow, L.H. & Haley, S.M. (1996). Effect of context in rating of mobility activities in children with disabilities. *Educational and Psychological Measurement*, 56, 122-129.
- (30) Ludlow, L.H. & Haley, S.M. (1995). Rasch model logits: Interpretation, use, and transformation. *Educational and Psychological Measurement*, 55, 967-975.
- Ludlow, L.H. & Haley, S.M. (1995). Displaying change in functional performance. In: Engelhard, G. & Wilson, M. (eds.). *Objective Measurement: Theory into Practice*. Volume 3. Norwood, NJ., Ablex Publishing.
- Fisher, A.G., Bryze, K.A., Granger, C.V. Haley, S.M., Hamilton, B.B., Heineman, A.W., Puderbaugh, J.K., Linacre, J.M., Ludlow, L.H., McCabe, M.A. & Wright, B.D. (1994). Applications of conjoint measurement to the development of functional assessment. *International Journal of Educational Research*, 21, 579-593.
- Ludlow, L.H. (1994). An empirical cross-validation of alternative classification strategies applied to harness racing data for win bets. In: Hausch, D.B., LO, V.S.Y. & Ziemba, W.T. (eds). *Efficiency of Racetrack Betting Markets*. Academic Press.
- Haley, S.M., Ludlow, L.H. & Coster, W.J. (1993). Pediatric Evaluation of Disability Inventory: Clinical interpretation of summary scores using Rasch rating scale methodology. In Gresham, G.E. & Granger, C.V. (eds). *New Developments in Functional Assessment (Physical Medicine and Pediatric Clinics of North America)*. Philadelphia, W.B. Saunders, 529-540.
- Haley, S.M. & Ludlow, L.H. (1992). Applicability of the hierarchical scales of the Tufts Assessment of Motor Performance for school-aged children and adults with disabilities (with Commentary and Author Response). *Physical Therapy*, 72, 191-202.
- Ludlow, L.H., Haley, S.M. & Gans, B.M. (1992). A hierarchical model for functional performance in rehabilitation medicine: The Tufts Assessment of Motor Performance. *Evaluation and the Health Professions*, 15, 59-74.

- Ludlow, L.H. & Haley, S.M. (1992). Polytomous Rasch models for behavioral assessment: The Tufts Assessment of Motor Performance. In Wilson, M. (ed). *Objective Measurement: Theory into Practice*. Volume 1. Norwood, NJ:, Ablex Publishing.
- Ludlow, L.H. & Guida, F.V. (1991) The Test Anxiety Scale for Children as a generalized measure of academic anxiety. *Educational and Psychological Measurement*, 51, 1013-1022.
- Haley, S.M., Costner, W.J. & Ludlow, L.H. (1991). Pediatric functional outcome measures. In Jaffe, K.M. (ed). *Pediatric Rehabilitation (Physical Medicine and Rehabilitation Clinics of North America)*. Philadelphia, W.B. Saunders, 689-723.
- (20) Haley, S.M., Ludlow, L.H., Gans, B.M., Faas, R.M. & Inacio, C.A. (1991). Tufts Assessment of Motor Performance: An empirical approach towards identifying motor performance categories. *Archives of Physical Medicine and Rehabilitation*, 72, 359-366.
- Theall, M., Franklin, J., & Ludlow, L.H. (1990). Attributions and retributions: Student ratings and the perceived causes of performance. *Instructional Evaluation*, 11, 12-17.
- Ludlow, L.H. & Hwang, R. (1990). Evaluating district-level performance relative to the system. *Educational Research Quarterly*, 14, 29-37.
- Gable, R.K., Ludlow, L.H. & Wolf, M.B. (1990). The use of Classical and Rasch latent trait models to enhance the validity of affective measures. *Educational and Psychological Measurement*, 50, 869-878.
- Ludlow, L.H. & Howard, E.P. (1990). The family map: A graphical representation of family systems theory. *Educational and Psychological Measurement*, 50, 245-254.
- Guida, F. & Ludlow, L. (1989). A cross-cultural study of test anxiety. *Journal of Cross-Cultural Psychology*, 20, 178-190.
- Ludlow, L.H. (1987). The graphical representation of quantitative research synthesis residual variation. *Educational and Psychological Measurement*, 47, 941-952.
- Ludlow, L.H. & Levy, S. (1987). Personal space as a function of infant illness: An application of multidimensional scaling. In Hair, J., Anderson, R. & Tatham, R. (eds). *Multivariate Data Analysis: With Readings*. Macmillan.
- Ludlow, L.H. (1986). Graphical analysis of item response theory residuals. *Applied Psychological Measurement*, 10, 217-229.
- Casey, M.B., Brabeck, M.M. & Ludlow, L.H. (1986). Familial handedness and its relation to spatial ability following strategy instruction. *Intelligence*, 10, 389-406.
- (10) Ludlow, L.H. (1985). A strategy for the graphical representation of Rasch model residuals. *Educational and Psychological Measurement*, 45, 851-859.
- Ludlow, L.H. & Hillocks, Jr., G. (1985). Psychometric considerations in the analysis of reading skill hierarchies. *Journal of Experimental Education*, 54, 15-21.
- Guida, F., Ludlow, L.H., & Wilson, M. (1985). The mediating effect of time-on-task on the academic anxiety/achievement interaction: A structural model. *Journal of Research and Development in Education*, 19, 21-26.
- Hillocks, G. & Ludlow, L.H. (1984). A taxonomy of skills in reading and interpreting fiction. *American Educational Research Journal*, 21, 7-24.
- Ludlow, L.H. & Levy, S. (1984). Personal space as a function of infant illness: An application of multidimensional scaling. *Journal of Pediatric Psychology*, 9, 331-347.
- Courington, S.M., Lambert, R.W., Ludlow, L.H., Wright, B.D. & Becker, S.W. (1983). The measurement of attitudes toward blindness and its importance for rehabilitation. *International Journal of Rehabilitation Research*, 6, 67-72.
- Hovsepian, B.A., Bond, N.A. & Ludlow, L.H. (1982). Multiattribute evaluation in baseball All-Star predictions. *Behavioral Science*, 27, 273-280.
- Faria, I., Ludlow, L.H. & Frankel, M. (1981). An alternative scaling model for the prediction of body density in female athletes. *Journal of Sports Medicine and Physical Fitness*, 21, 336-341.
- Bezruczko, N. & Ludlow, L.H. (1981). The alterability and measurement of learning rate. *Studies in Educational Evaluation*, 7, 97-104.
- Bezruczko, N. & Ludlow, L.H. (1980). The alterability and measurement of learning rate. In B.S. Bloom (ed). *The state of research on selected alterable variables in education*. Chicago: The University of Chicago, Department of Education.

#### b) Books

- Ludlow, L.H. (unpublished manuscript). *Multivariate Statistics: Creative Design and Analysis*.
- Gans, B.M., Nanna, M., Maiers, B., Trumbo, L., Dijkers, M., Haley, S.M., Ludlow, L.H. (1996). *Michigan Motor Performance Assessment*. Rehabilitation Institute of Michigan.
- Haley, S.M., Coster, W.J., Ludlow, L.H., Haltiwanger, J.T. & Andrellos, P.J. (1992). *Pediatric Evaluation of Disability Inventory (PEDI): Development, Standardization and Administration Manual*. Boston, MA: New England Medical Center/PEDI Research Group.

c) Evaluation and Project Reports

- Ludlow, L. H., Reeves, T. D., & Gomolka, J. A. (2013). *Pathways over Time: A Research Project for the Introductory Biology Laboratory, Evaluation Report I*. Chestnut Hill, MA: Department of Educational Research, Measurement, and Evaluation, Boston College. PI: Clare O'Connor, Ph.D.
- National Center for Education Statistics (2012). *National Indian Education Study 2011* (NCES 2012-466). Institute of Education Sciences, U.S. Department of Education, Washington, D.C.
- Hudson Public Schools, Hudson, MA. (2011). "*Teaching American History: Final Report*". PI: Todd Wallingford.
- Universidad Diego Portales, Santiago, Chile. (2010). "*Design of a mentoring and evaluation system for learning methods of undergraduate students of the Faculty of Education, University of Diego Portales: Evaluation Report*". PI: Horacio Walker, Ph.D.
- Hudson Public Schools, Hudson, MA (2010). "*Teaching American History: Year Three Annual Report*". PI: Todd Wallingford.
- National Center for Education Statistics (2010). *National Indian Education Study 2009 Part I: Performance of American Indian and Alaska Native Students at Grades 4 and 8 on NAEP 2007 Reading and Mathematics Assessments* (NCES 2010-462). Institute of Education Sciences, U.S. Department of Education, Washington, D.C.
- National Center for Education Statistics (2010). *National Indian Education Study 2009 Part II: The Educational Experiences of American Indian and Alaska Native Students in Grades 4 and 8* (NCES 2010-463). Institute of Education Sciences, U.S. Department of Education, Washington, D.C.
- Hudson Public Schools, Hudson, MA. (2009). *Teaching American History: Second Year Report*. PI: Todd Wallingford.
- National Center for Education Statistics (2008). *National Indian Education Study 2007 Part I: Performance of American Indian and Alaska Native Students at Grades 4 and 8 on NAEP 2007 Reading and Mathematics Assessments* (NCES 2008-457). Institute of Education Sciences, U.S. Department of Education, Washington, D.C.
- National Center for Education Statistics (2008). *National Indian Education Study 2007 Part II: The Educational Experiences of American Indian and Alaska Native Students in Grades 4 and 8* (NCES 2008-458). Institute of Education Sciences, U.S. Department of Education, Washington, D.C.
- Chachra D, Eris O, Chen H, Donaldson K, Rosca C, Ludlow L, Sheppard S. (2008). Gender and academic self-confidence: results from the Persistence in Engineering survey. Center for the Advancement of Engineering Education, Academic Pathways Study. Technical Report CAEE-TR-08-07.
- Chachra D, Eris O, Chen H, Donaldson K, Rosca C, Ludlow L, Sheppard S. (2008). Gender and academic disengagement: results from the Persistence in Engineering survey. Center for the Advancement of Engineering Education, Academic Pathways Study. Technical Report CAEE-TR-08-06.
- National Center for Education Statistics (2006). *Part I: The Performance of American Indian and Alaska Native Fourth- and Eight-Grade Students on NAEP 2005 Reading and Mathematics Assessment* (NCES 2006-463). Institute of Education Sciences, U.S. Department of Education, Washington, D.C.
- National Center for Education Statistics (2006). *Part II: The Educational Experiences of Fourth- and Eighth-Grade American Indian and Alaska Native Students* (NCES 2007-454). Institute of Education Sciences, U.S. Department of Education, Washington, D.C.
- Bauer, S., Ludlow, L.H. & Stage, F. (2005). University of Massachusetts, Amherst; School of Education; Education Policy, Research and Administration Department: *Academic Quality Assessment and Development External Review*. Chair: Joseph Berger. September 26-27, 2005.
- Maloy, R.W., Pine, G., Seidman, I. & Ludlow, L.H. (2004). *Massachusetts Teacher Preparation and Induction Study Report on Third Year Findings*. Coordinator: Karen O'Connor, University of Massachusetts, Dartmouth.
- Maloy, R.W., Pine, G., Seidman, I. & Ludlow, L.H. (2003). *Massachusetts Teacher Preparation and Induction Study Report on Second Year Findings*. Coordinator: Karen O'Connor, University of Massachusetts, Dartmouth.
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d) Abstracts

Ludlow, L.H. & Guida, F.V. (1990). The Test Anxiety Scale for Children: A measure of academic anxiety? Program Abstracts. New England Educational Research Organization.

Ludlow, L.H. & Haley, S.M. (1989). The Tufts Assessment of Motor Performance: An application of the Rasch rating scale model. Program Abstracts. New England Educational Research Organization.

Ludlow, L.H. & Howard, E. (1988). The family map: A graphical representation of family systems theory. Program Abstracts, New England Educational Research Organization.

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e) Book Reviews

Baker, F. The Basics of Item Response Theory. [Heineman Press, 1985.] *Educational Measurement*, Fall 1986.

f) Other

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**Academic Activities/Presentations:**

Reeves, T. D., Ludlow, L. H., Warner, D. M., & O'Connor, C. M. Changes in undergraduate student content knowledge and research methods skills during a research course in molecular cellular biology. Poster presented at the Annual Meeting of the Society for the Advancement of Biology Education Research, Twin Cities, MN. July 20, 2014.

Organizer, Sixteenth New England Objective Measurement Workshop. Two sessions of Rasch model applications by Boston College students. In conjunction with New England Educational Research Organization annual meeting. Mt Snow, VT. May 2, 2014.

Ludlow L, Newton A, Klein K, Trefcer K, & Cochran-Smith M. Mapping the complex system of teacher education: An application of multidimensional scaling and cluster analysis. Paper presented at the New England Educational Research Organization annual meeting. Mt Snow, VT. May 1, 2014.

Cochran-Smith M, Grudnoff L, Ell F, Haigh M, Hill M, & Ludlow LH. The problem of linear thinking in research on teacher learning: Can complexity theories help? Paper presented at the American Educational Research Association annual meeting. Philadelphia, PA. April 7, 2014.

Cochran-Smith M, Ell F, Grudnoff L, Ludlow LH, Haigh M, & Hill M. Redrawing the map: Toward a complex theory of initial teacher education. Paper presented at the American Educational Research Association annual meeting. Philadelphia, PA. April 6, 2014.

Leibowitz S, Ludlow LH, & Winkler T. Expeditionary Learning implementation review: Instrument development. Paper presented at the American Educational Research Association annual meeting. Philadelphia, PA. April 4, 2014.

- Chan R, Gavin B, & Ludlow LH. A concerning misalignment?: Comparing institutional and student perspectives on the purposes and goals of completing a U.S. bachelor's degree. Paper presented at the American Educational Research Association annual meeting. Philadelphia, PA. April 7, 2014.
- Ludlow LH, & Klein K. Suppressor variables versus suppression effects. Paper presented at the American Educational Research Association annual meeting. Philadelphia, PA. April 5, 2014.
- Hake L, Reeves TD, Chen X, Frederick J, Ludlow LH, Miyazaki J, O'Neal M, Spikes D, & O'Connor C. (2013, July). *The Scientific Teaching Alliance for Future Faculty (STAFF): a regional collaboration to improve graduate teaching assistant training*. Poster presented at the National Meeting of the Society for the Advancement of Biology Education Research, University of Minnesota—Twin Cities, Minneapolis, MN.
- Cochran-Smith M, Ell FR, Ludlow LH, Grudnoff LB, & Aitken G. The challenge and promise of complexity theory for teacher education research. Paper presented at the American Educational Research Association annual meeting. San Francisco, CA. April 30, 2013.
- Ell FR, Cochran-Smith M, Grudnoff LB, Ludlow LH, & Aitken G. Charting relationships between teacher education and student learning: Maps of a complex system. Paper presented at the American Educational Research Association annual meeting. San Francisco, CA. April 30, 2013.
- Johnson C, Ludlow LH, Matz-Costa C, Brown M, Besen E & James J. Development of a work engagement scale: Examining the utility of scenario-style items. Paper presented at the American Educational Research Association annual meeting. San Francisco, CA. April 28, 2013.
- Ludlow LH, Johnson C, Matz-Costa C, Brown M, Besen E & James J. The measurement of adult productive activity Engagement with Rasch-based scenarios. Educational Research, Measurement and Evaluation Department Brown Bag Seminar Series. April 23, 2013.
- Ludlow LH, Johnson C, Matz-Costa C, Brown M, Besen E & James J. The construction of Rasch-based scenarios. Paper presented at the New England Educational Research Organization annual meeting. Portsmouth, NH. April 19, 2013.
- Organizer, Fifteenth New England Objective Measurement Workshop. One session of Rasch model applications by Boston College students. In conjunction with New England Educational Research Organization annual meeting. Portsmouth, NH. April 19, 2013.
- Organizer, Fourteenth New England Objective Measurement Workshop. Two sessions of Rasch model applications by Boston College students.. In conjunction with New England Educational Research Organization annual meeting. Portsmouth, NH. May 4, 2012.
- Holder A, Pedulla J & Ludlow L. Factors of teacher preparation that predict teaching after graduation. Paper presented at the New England Educational Research Organization annual meeting. Portsmouth, NH. May 3, 2012.
- Cochran-Smith M, Ell F, Grudnoff L, Aitken G & Ludlow LH. Project RITE: Rethinking initial teacher education. Paper presented at the American Educational Research Association annual meeting. Vancouver, Canada. April 17, 2012.
- Cochran-Smith M, Ludlow LH, Ell F, O'Leary M & Enterline S. Learning to teach for social justice as a cross-cultural concept: Findings from three countries. Paper presented at the American Educational Research Association annual meeting. Vancouver, Canada. April 16, 2012.
- Rollison J & Ludlow, LH. The development of TELCA (Teaching Economic Literacy: Confidence and Anxiety) Scale. Paper presented at the American Educational Research Association annual meeting. Vancouver, Canada. April 14, 2012.
- O'Leary M, Lysaght Z, & Ludlow, LH. The development of an instrument to measure teachers' assessment for learning classroom practices. Paper presented at the American Educational Research Association annual meeting. Vancouver, Canada. April 13, 2012.
- Ludlow LH, Pedulla JJ, Chappe S, Holder A, Enterline S, Cannady MA, Cantor D & McMahon T. Statistical modeling of duration of time in teaching. Paper presented at the New England Educational Research Organization annual meeting. New Bedford, MA. April 28, 2011.
- Pedulla JJ, Cochran-Smith M, Ludlow LH, McQuillan PJ, Gleeson AM, Holder A, Reagan EM, Terrell, DL. Teaching Practice and teacher retention: Policy implications of mixed-methods research. Paper presented at the American Educational Research Association annual meeting. New Orleans, LA. April 9, 2011.
- Ludlow LH, Pedulla JJ, Chappe S, Holder A, Enterline S, Cannady MA, Cantor D & McMahon T. Statistical modeling of duration of time in teaching. Paper presented at the American Educational Research Association annual meeting. New Orleans, LA. April 9, 2011.
- Lysaght Z, O'Leary M & Ludlow, LH. The development of a psychometric instrument to evaluate teachers' use of formative assessment in elementary schools. Paper presented at the American Educational Research Association annual meeting. New Orleans, LA. April 9, 2011.
- Ludlow LH, Enterline E, O'Leary M, Ell FR, Bonilla V & Cochran-Smith M. Learning to teach for social justice: An international construct invariance study. Teacher Education Forum of Aotearoa New Zealand, October 26, 2010.

- Gable RK, Ludlow LH, Kite SL & McCoach DB. Construct invariance of the *Survey of Knowledge of Internet Risk and Internet Behavior*. Paper presented at the Northeastern Educational Research Association annual conference. Rocky Hill, CT. October 21, 2010.
- Cochran-Smith M & Ludlow LH. Creating a culture of evidence in teacher education: A workshop. 35<sup>th</sup> Annual Conference of the Association for Teacher Education in Europe. Budapest, Hungary. August 26, 2010.
- Ludlow LH, Pedulla J, Cannady M, Mitescu E, Chappe S, Enterline S, Loftus F, Cantor D & McMahon T. Methodological challenges in conducting longitudinal multi-cohort teacher retention analyses. Paper presented at the American Educational Research Association annual meeting. Denver, CO. April 30, 2010.
- Ludlow LH, Enterline S, O'Leary M, Ell F, Bonilla V & Cochran-Smith M. Learning to teach for social justice-beliefs (LTSJ-B): An international construct invariance study. Paper presented at the American Educational Research Association annual meeting. Denver, CO. May 3, 2010.
- Braun H, Ludlow LH & Freund D. Methodological issues in analyzing data from the National Indian Education Study (NIES). Paper presented at the American Educational Research Association annual meeting. Denver, CO. May 1, 2010.
- Morgan M, Ludlow LH, Kitching K, O'Leary M & Clarke A. What makes teachers tick? Paper presented at the American Educational Research Association annual meeting. Denver, CO. May 1, 2010.
- Ludlow LH, Enterline S, O'Leary M, Ell F, Bonilla V & Cochran-Smith M. Learning to teach for social justice-beliefs (LTSJ-B): An international construct invariance study. Paper presented at the American Educational Research Association annual meeting. Denver, CO. May 3, 2010.
- Organizer, Thirteenth New England Objective Measurement Workshop. Topics in Item Response Theory and Educational Measurement I and II. In conjunction with New England Educational Research Organization annual meeting. Portsmouth, NH. April 9, 2010.
- Chappe S, Holder A, Ludlow L & Pedulla J. Methodological challenges in conducting longitudinal multi-cohort teacher retention analyses. Paper presented at the New England Educational Research Organization annual meeting. Portsmouth, NH. April 9, 2010.
- Organizer, Twelfth New England Objective Measurement Workshop. Topics in Item Response Theory and Educational Measurement I and II. In conjunction with New England Educational Research Organization annual meeting. Portsmouth, NH. May 8, 2009.
- Gable RK, Ludlow LH, Kite SL, McCoach DB & Filippelli LP. Development and validation of the *Survey of Knowledge of Internet Risk and Behavior*. Paper presented at the American Educational Research Association annual meeting. San Diego, CA. April 16, 2009.
- Cannady M, Pedulla J, Ludlow LH & Chappe S. Does a stand-alone classroom assessment course make a difference? Paper presented at the American Educational Research Association annual meeting. San Diego, CA. April 15, 2009.
- Ludlow LH, Pedulla J, Mitescu E, Cannady M, Chappe S, Hu J & Enterline S. Measuring the "effect" of a culture of evidence. Paper presented at the American Educational Research Association annual meeting. San Diego, CA. April 14, 2009.
- O'Leary M & Ludlow LH. Learning to teach for social justice: Comparative data from Ireland, New Zealand, Puerto Rico and US. Paper presented at the Development and InterCultural Education Conference. Froebel College of Education. Sion Hill, Blackrock, Co. Dublin, Ireland. February 27-28, 2009.
- Visiting Professor, "Research Methods (2): Building a powerful design". Course co-taught with Marilyn Cochran-Smith, St Patrick's College, Dublin, Ireland. June 30-July 4, 2008.
- Organizer, Eleventh New England Objective Measurement Workshop. Two sessions of Rasch model applications by Boston College students. In conjunction with New England Educational Research Organization annual meeting. Hyannis, MA. April 11, 2008.
- Enterline S, Ludlow LH, Mitescu E & Cochran-Smith M. Learning to Teach for Social Justice: Measuring changes in beliefs. Paper presented at the American Educational Research Association annual meeting. New York, NY. March 26, 2008.
- Cochran-Smith M & Ludlow LH. A series of workshops on quantitative and qualitative procedures for program improvement and accountability. The University of Auckland, New Zealand. March 10-13, 2008.
- Eris O, Chachra D, Chen H, Ludlow LH, Rosca C, Sheppard S & Donaldson K. A preliminary analysis of correlates of engineering persistence. In: *Proceedings of the American Society for Engineering Education Annual Conference*. Honolulu, HI. June 24-27, 2007.
- Cochran-Smith, M. & Ludlow, L.H. (Symposium co-chairs). The Role of Research in Teaching and Teacher Education in Ireland. Colleges of Education Research Consortium (CERC) Annual Meeting. Marino Institute of Education, Dublin, Ireland. June 20, 2007.
- Cochran-Smith, M. & Ludlow, L.H. Transforming a teacher education program: Teachers for a New Era (TNE) at

- Boston College. Professional Development Workshop. Church of Ireland College of Education and Froebel College, Dublin Ireland. June 18, 2007.
- Cochran-Smith, M. & Ludlow, L.H. Using evidence to improve teacher education: A workshop. University of Glasgow and University of Strathclyde, Glasgow, Scotland. June 15, 2007.
- Cochran-Smith, M. & Ludlow, L.H. Boston College Teachers for a New Era (BC-TNE) and Scottish Teachers for a New Era (S-TNE): A workshop. University of Aberdeen, Aberdeen, Scotland. June 13, 2007.
- Organizer, Tenth New England Objective Measurement Workshop. One session of Rasch model applications by Boston College students. In conjunction with New England Educational Research Organization annual meeting. Portsmouth, NH. April 27, 2007.
- Ludlow LH, Enterline S, Pedulla J, Kafka A, Solomon-Fernandez Y & Mitescu E. Survey development and utility of teacher candidates'/graduates' perceptions. Paper presented at the New England Educational Research Organization annual meeting. Portsmouth, NH. April 26, 2007.
- Ludlow LH, Pedulla J, Enterline S, Loftus F, Kafka A, Salomon-Fernandez Y, Mitescu E & Gilligan, J. From students to teachers: Teacher candidates'/graduates' perceptions and experiences. Paper presented at the American Educational Research Association annual meeting. Chicago, IL. April 12, 2007.
- Morgan M, Ludlow LH, Kitching K, O'Leary M. What makes teachers tick? Understanding the motivation of classroom teachers. Paper presented at the American Educational Research Association annual meeting. Chicago, IL. April 13, 2007.
- Ludlow, L.H. Building a value-added model for teacher education: Observations about implementation. University of Puerto Rico, San Juan, PR. March 8, 2007.
- Cochran-Smith, M. & Ludlow, L.H. Development of a TNE-like teacher education research program. University of Puerto Rico, San Juan, PR. March 6, 2007.
- Cochran-Smith, M & Ludlow, LH. Data access and collaboration with public school district offices. Second Annual Meeting: Learning Network—Teachers for a New era. Philadelphia, PA. December 1, 2006.
- Eris, O., Chachra, D., Ludlow, L.H. & Rosca, C. Longitudinal analysis of Cohort I Persistence in Engineering survey data. 2006 Center for the Advancement of Engineering Education Academic Pathways Study meeting. Stanford, CA. September 21, 2006.
- Haley, S., Ni, P., Jette, A.M., Tao, W., Moed, R. & Ludlow, L.H. Replenishing CAT: Analyzing the impact of pre-test items. Paper presentation at The Inaugural PROMIS Conference Patient-Reported Outcome Measures: Gaithersburg, MD. September 12, 2006.
- Organizer, Ninth New England Objective Measurement Workshop. Two sessions of Rasch model applications by Boston College students and alumni. In conjunction with New England Educational Research Organization annual meeting. Portsmouth, NH. April 28, 2006.
- Ludlow, L.H., Enterline, S., Cochran-Smith, M. Learning to Teach for Social Justice: An Application of Rasch Measurement Principles. Paper presentation at the American Educational Research Association. San Francisco, CA. April 10, 2006.
- Ludlow, L.H. & Betebenner, D. Value-added models applied to teacher education. Paper presentation at the American Educational Research Association. San Francisco, CA. April 8, 2006.
- Ludlow, L.H. Faculty evaluations of teaching: A link between standardized ratings and student-centered drawings. Paper presented at the 4<sup>th</sup> Annual Hawaii International Conference on Education. Waikiki, Hawaii. January 9, 2006.
- Ludlow, L.H. & Enterline, S. Rasch analysis of BC TNE social justice questions. Paper presented at the New England Educational Research Organization annual meeting. Northampton, MA. April 29, 2005.
- Organizer, Eighth New England Objective Measurement Workshop. One session of Rasch model applications by Boston College students and alumni. In conjunction with New England Educational Research Organization annual meeting. Northampton, MA. April 29, 2005.
- Ludlow, L.H. Value added modeling as designed for the Boston College Teachers for a New Era Project. Presented at the BC TNE organized symposium titled "From teacher education to pupil learning: Evidence matters" at the New England Educational Research Organization annual meeting. Northampton, MA. April 28, 2005.
- Ludlow, L.H., Barrett, J., Salomon, Y., Jong, C. & Shakman, K. Teachers for a New Era evidence issues. Roundtable presentation at the American Educational Research Association annual meeting. Montreal, Canada. April 14, 2005.
- Ludlow, L.H., Enterline, S. & Famularo, L. Student drawings and student ratings of instruction: When numbers bow to figures. Paper presented at the American Educational Research Association annual meeting. Montreal, Canada. April 14, 2005.
- Ludlow, L.H., Famularo, L., & Enterline, S. Drawing conclusions III: Student drawings to inform teaching and

- learning in a university setting. Roundtable presentation at the American Educational Research Association annual meeting. Montreal, Canada. April 13, 2005.
- Ludlow, L.H., Diaconu, D., Erberber, E. & Muncaster, K. Does instructor availability matter: The size, time, outclass model by degree. Paper presented at the American Association of Colleges for Teacher Education annual meeting. Washington, DC. February 21, 2005.
- Ludlow, L.H. Consequences of federally mandated teacher testing: A longitudinal case study from Massachusetts. Paper presented at the International Council on Education for Teaching World Assembly. Hong Kong Special Administrative Region, China. July 15, 2004.
- Chair, "Standards". Paper session at International Council on Education for Teaching World Assembly. Hong Kong Special Administrative Region, China. July 14, 2004.
- Organizer, Seventh New England Objective Measurement Workshop. Two sessions of Rasch model applications by Boston College students. In conjunction with New England Educational Research Organization annual meeting. Portsmouth, NH. April 22, 2004.
- Organizer and Chair, Symposium Session 7.3: "Creative applications of multivariate techniques". Paper presentations by Boston College, LSOE, ERME students. New England Educational Research Organization annual meeting. Portsmouth, NH. April 24, 2004.
- Ludlow, L.H., Bebell, D. & Trong, K. What do students see in statistics classes. Poster presented at New England Educational Research Organization annual meeting. Portsmouth, NH. April 23, 2004.
- Ludlow, L.H., Bebell, B. & Trong, K. Drawings conclusions II: Using student drawings to inform teaching and learning in a university setting. Paper presented at the American Educational Research Association annual meeting. San Diego, CA. April 14, 2004.
- Leibowitz S. & Ludlow LH Measuring change in literacy instruction: The Bayside Readers Initiative Classroom Observations. Paper presented at the American Educational Research Association annual meeting. San Diego, CA. April 14, 2004.
- Moderator, "MTEL and Short-term/Long-term Institutional Strategies". Framingham State College's 4<sup>th</sup> Annual Conference on Massachusetts Teacher Test preparation. Framingham, MA. January 9, 2004.
- Ludlow, L.H. & Bebell, D. Drawing conclusions: Using student drawings to inform teaching and learning in a university setting. Paper presented at the American Educational Research Association annual meeting. Chicago, IL. April 23, 2003.
- Ludlow, L.H., Mahalik, J. & Rosca, C. Examination of Rasch structure of feminine identity scales. Paper presented at the American Educational Research Association annual meeting. Chicago, IL. April 24, 2003.
- Ludlow, L.H. & Shirley, D. Street-level bureaucrats and the Massachusetts Teacher Tests. Paper presented at the American Educational Research Association annual meeting. Chicago, IL. April 25, 2003.
- Organizer, Sixth New England Objective Measurement Workshop. Two sessions of Rasch model applications by Boston College students. In conjunction with NEERO annual meeting. Northampton, MA. April 11, 2003.
- Ludlow LH, Shirley D & Rosca C. The case that won't go away: Besieged institutions and the Massachusetts teacher tests. Paper presented at the American Association of College for Teacher Education annual meeting. New Orleans, LA. Jan. 27, 2003.
- Ludlow LH (2002). Critiquing government-imposed teacher testing: A case study from the US. Paper presented at the University Council for the Education of Teachers. England. Nov. 11, 2002.
- Organizer, Fifth New England Objective Measurement Workshop. Two sessions of Rasch model applications by Boston College students. In conjunction with NEERO annual meeting. Northampton, MA. April 25, 2002.
- Rosca, C., Ludlow, L.H. & Mahalik, J. The psychometric structure of the Conformity to Feminine Norms Inventory. Paper presented at the New England Educational Research Organization annual Meeting. Northampton, MA. April 25, 2002.
- Ludlow, L.H. A structural model for understanding faculty evaluations. Paper presented at the American Educational Research Association annual meeting. New Orleans, LA. April 5, 2002.
- Leibowitz S & Ludlow, L.H. Measuring longitudinal change in a multifaceted school reform initiative. Paper presented at the American Educational Research Association annual meeting. New Orleans, LA. April 5, 2002.
- Ludlow, L.H. & Leibowitz, S. Measuring readiness to change in the context of the family. Paper presented at the American Educational Research Association annual meeting. New Orleans, LA. April 4, 2002.
- Organizer, Fourth New England Objective Measurement Workshop. Two sessions of Rasch model applications by Boston College students. In conjunction with NEERO annual meeting. Portsmouth, NH. April 26, 2001.
- Ludlow, L.H. & Mahalik, J.R. Congruence between a theoretical continuum of masculinity and the Rasch model. Paper presented at the NEERO annual meeting. Portsmouth, NH. April 26, 2001.
- Ludlow, L.H. & Alvarez-Salvat, R. Spillover in the academy: Marital stability and faculty evaluations. Paper presented at the American Educational Research Association annual meeting. Seattle, WA. April 11, 2001.

- Mahalik, J.R., Locke, B.D., Diemer, M., Ludlow, L.H., Scott, R.P.J., Gottfried, M., & Freitas, G. Development of the Conformity to Masculinity Norms Scale. Symposium - Masculine gender role conformity: Examining theory, research, and practice. Annual meeting of the American Psychological Association, Washington D.C., 2000.
- Peck, A., Ludlow, L.H., & Scanlon, D. Student teachers and cooperating teachers as peer tutors in learning technology. Paper presented at the American Educational Research Association annual meeting. New Orleans, LA. April 29, 2000.
- Ludlow, L.H. & Mahalik, J.R. Rasch structure of Conformity to Masculine Norms Inventory. Paper presented at the American Educational Research Association annual meeting. New Orleans, LA. April 27, 2000.
- Ludlow, L.H. & Mahalik, J.R. Rasch structure of Masculine Identity Scales. Paper presented at the Tenth International Objective Measurement Workshops. New Orleans, LA. April 22, 2000.
- Ludlow, L.H. & Mahalik, J.R. Rasch analysis of the Conformity to Masculine Norms Identity. Paper presented at the NEERO annual meeting. Portsmouth, NH. April 13, 2000.
- Organizer, Third New England Objective Measurement Workshop: Two sessions of Rasch model applications by Boston College students. In conjunction with NEERO annual meeting. Portsmouth, NH. April 13, 2000.
- Ludlow, L.H. & Mahalik, J.R. Initial construct validity of the Masculine Identity Continuum Inventory. Paper presented at the NEERO annual meeting. Portsmouth, NH. April 8, 1999.
- Ludlow, L.H. Student drawings as course evaluations: What they see in statistics. Paper presented at the American Educational Research Association annual meeting. Montreal, Canada. April 20, 1999. ERIC: ED 432 458.
- Organizer, AERA Rasch Special Interest Group interactive symposium: Explaining Latent Trait Models to Non-Specialists. American Educational Research Association annual meeting. Montreal, Canada. April 21, 1999.
- Organizer, Second New England Objective Measurement Workshop: Two sessions of Rasch model applications by Boston College students. In conjunction with NEERO annual meeting. Portsmouth, NH. April 8, 1999.
- Ludlow, L.H. & Haley, S.M. New directions in pediatric rehabilitation measurement: The growing challenge. Paper presented at the Second International Outcomes Measurement Conference. Chicago, IL. May 16, 1998.
- Organizer, (a) Symposium Session 3.1: "Classroom-level Issues in Assessment", (b) Symposium Session 4.1: "Large-scale Issues in Assessment". New England Educational Research Organization annual meeting. Portland, ME. April 30, 1998.
- Organizer, First New England Objective Measurement Workshop: Two sessions of Rasch model applications by Boston College students. In conjunction with 30th NEERO annual meeting. Portland, ME. April 30, 1998.
- Ludlow, L.H. The role of residuals in the evolution of scientific methods. Paper presented at the American Educational Research Association annual meeting. San Diego, CA, April 15, 1998.
- Chair & Discussant (a) Symposium Session 4.1: "Creative Experimental Design and Statistical Analysis", (b) Symposium Session 6.4: "Rasch Model IRT Issues and Applications". New England Educational Research Organization annual meeting. Portsmouth, NH. May 1, 1997.
- Ludlow, L.H. & O'Leary, M. Rasch analysis of omitted and not-reached test items: Some implications for large scale assessments. Paper presented at the New England Educational Research Association annual meeting. Portsmouth, NH. May 1, 1997.
- Ludlow, L.H. & Lunz, M.E. The Job Responsibilities Scale: Invariance structure in a longitudinal study. Paper presented at the Fall meeting of the American Society of Clinical Pathologists. San Diego, CA, September 26, 1996.
- Ludlow, L.H. & Bell, K.N. Psychometric characteristics of the Attitudes Towards Mathematics and its Teaching (ATMAT) Scale. New England Educational Research Association 1995 Distinguished Paper presented at the American Educational Research Association annual meeting. NY, NY, April 9, 1996.
- Ludlow, L.H. & Lunz, M.E. Comparative psychometric results on the Job Responsibilities Survey: Year one. Paper presented at the American Educational Research Association annual meeting. NY, NY, April 12, 1996.
- Ludlow, L.H. & Bell, K.N. Psychometric characteristics of the Attitudes Towards Mathematics and its Teaching (ATMAT) Scale. Paper presented at the annual meeting of the New England Educational Research Organization. Portsmouth, NH, April 4, 1995.
- Discussant, Paper session (6.5): "Assessments in Mathematics". New England Educational Research Organization annual meeting. Portsmouth, NH, May 4, 1995.
- Ludlow, L.H. A comparison of classical and item response theory psychometric results on the ASCP Prospective Study 1st Year Survey. Paper presented at the Spring meeting of the American Society of Clinical Pathologists. Orlando, FL, April 21, 1995.
- Ludlow, L.H. Instructor evaluation ratings: A longitudinal analysis. Paper presented at the annual meeting of the American Educational Research Association. San Francisco, CA, April 19, 1995.
- Ludlow, L.H. Omitted and not-reached item responses: How should they be scored? Paper presented at the eighth International Objective Measurement Workshop. Berkeley, CA, April 17, 1995.

- Ludlow,L.H. A longitudinal analysis of student/instructor ratings. Paper presented at the Northeastern Educational Research Association annual meeting. Ellenville, NY, October 26, 1994.
- Chair, Paper session (4.3): "Research Methodology on Education and Assessment". New England Educational Research Organization annual meeting. Rockport, ME, April 21, 1994.
- Chair, Paper session (3.3): "General Research on Assessment". New England Educational Research Organization annual meeting. Rockport, ME, April 21, 1994.
- Ludlow,L.H. & Haley,S.M. Measuring change in functional performance. Paper presented at the annual meeting of the New England Educational Research Organization. Rockport, ME, April 21, 1994.
- Ludlow,L.H. & Haley,S.M. Effect of context in rating of functional performance. Paper presented at the annual meeting of the American Educational Research Association. New Orleans, LA, April 4, 1994.
- Gonzalez,E.J., Beaton,A.E. & Ludlow,L.H. Working with a national data base: The NAEP Primer. Paper presented at the annual meeting of the New England Educational Research Organization. Portsmouth, NH, April 30, 1993.
- Ludlow,L.H. & Haley,S.M. Issues in the measurement of change in functional performance. Paper presented at the annual meeting of the New England Educational Research Organization. Portsmouth, NH, April 29, 1993.
- Discussant, Paper session (25.44): "Partial Credit Models and Extensions". American Educational Research Association annual meeting. Atlanta, GA, April 14, 1993.
- Beaton,A.E., Gonzalez,E. & Ludlow,L.H. On developing a NAEP Primer. Paper presented at the annual meeting of the American Educational Research Association. Atlanta, GA, April 13, 1993.
- Ludlow,L.H. & Haley,S.M. Displaying change in functional performance. Paper presented at the 7<sup>th</sup> International Objective Measurement Workshop. Emory University, Atlanta, GA, April 9, 1993.
- Haley,S.M., Coster,W. & Ludlow,L.H. Discriminative and Evaluative Validity of the Pediatric Evaluation of Disability in Young Children with Brain Injury. Paper presented at the 11th Annual National Symposium of the National Head Injury Foundation. Boston, MA, December 11, 1992.
- Ludlow,L.H. & Haley,S.M. Converting IRT logits into usable scaled scores. Paper presented at the annual meeting of the New England Educational Research Organization. Portsmouth, NH. May 7, 1992.
- Discussant, Paper session: "Research Methodology". New England Educational Research Organization annual meeting. Portsmouth, NH. May 8,1992.
- Ludlow,L.H. & Haley,S.M. The Pediatric Evaluation of Disability Inventory (PEDI). Paper presented at the annual meeting of the American Educational Research Association. San Francisco, CA. April 23, 1992.
- Haley,S.M., Coster,W.J. & Ludlow,L.H. Rasch scaling of functional items in a normative sample: Development of the Pediatric Evaluation of Disability Inventory. Paper presented at the annual meeting of the American Academy of Physical Medicine and Rehabilitation. Washington, DC. October 27-31, 1991.
- Discussant, Paper sessions: "Research Models and Analysis", and "Grouping Practices in Middle and Secondary Schools". New England Educational Research Organization annual meeting. Portsmouth, NH. April 24-26, 1991.
- Ludlow,L.H. & Guida,F. Constructing a scale of academic anxiety. Paper presented at the American Educational Research Association annual meeting. Chicago, IL. April 1-6, 1991.
- Franklin,J., Theall,M. & Ludlow,L. Grade inflation and student ratings: A closer look. Paper presented at the American Educational Research Association annual meeting. Chicago, IL, April 1-6, 1991.
- Theall,M., Franklin,J. & Ludlow,L.H. Attributions or retributions: Student ratings and the perceived causes of performance. Paper presented at the American Educational Research Association annual meeting. Boston, MA. April 16, 1990.
- Leibowitz,S. & Ludlow,L.H. Measuring ethical sensitivity in computer use. Paper presented at the American Educational Research Association annual meeting. Boston, MA, April 16, 1990.
- Gable,R.K., Ludlow,L.H. & Wolf,M.B. Analyzing person characteristics and item structure to better understand Rasch model residuals. Paper presented at the American Educational Research Association annual meeting. Boston, MA. April 16, 1990.
- Ludlow,L.H. & Guida,F.V. The Test Anxiety Scale for Children: A Measure of Academic Anxiety?. Paper presented at the New England Educational Research Organization annual meeting. Rockport, Maine, May 2-4, 1990.
- Organizer, Symposium: "Measurement, Testing, and Statistical Analysis". Paper presentations by Boston College, LSOE, ERME students. New England Educational Research Organization annual meeting. Rockport, ME. May 2-4, 1990.
- Ludlow,L.H., Haley,S.M. & Gans,B.M. The Tufts Assessment of Motor Performance: An application of the Rasch rating scale model. Paper presented at the New England Educational Research Organization annual meeting. Portsmouth, New Hampshire. April 28, 1989.
- Organizer, Symposium. "Item Response Theory Applications". Paper presentations by Boston College, LSOE, ERME students. New England Educational Research Organization annual meeting. Portsmouth, NH. April 28, 1989.
- Ludlow,L.H., Haley,S.M. & Gans,B.M. Scaling motor proficiency. Paper presented at the Fifth International Objective Measurement Workshop. Berkeley, CA. March 25, 1989.

- Ludlow, L.H., Haley, S.M. & Gans, B.M. Methodological issues in the application of polytomous Rasch models to behavioral assessment: The Tufts Assessment of Motor Performance. Paper presented at the National Council on Measurement in Education annual meeting. San Francisco, CA. March 29, 1989.
- Gable, R.K., Ludlow, L.H. & Wolf, M.B. The measurement of perceived school related stress using classical and Rasch latent trait models. Paper presented at the American Educational Research Association annual meeting. San Francisco, CA. March 28, 1989.
- Haley, S.M., Ludlow, L.H. & Gans, B.M. Functional status assessment using the Rasch model: Development of the Tufts Assessment of Motor Performance. Paper presented at the American Physical Therapy Association annual meeting. February 2-5, 1989.
- Chairperson and Discussant: "Psychometrics". Paper presentations by Boston College, LSOE, ERME students. New England Educational Research Organization annual meeting. Rockport, ME. April 27-29, 1988.
- Organizer and Paper Presenter, Symposium: "Measurement and Testing: Innovations and Issues". Paper presentations by Boston College, LSOE, ERME students. New England Educational Research Organization annual meeting. Rockport, ME. April 27-29, 1988.
- Ludlow, L.H. A cross-validation of empirical classification strategies. Paper presented at the New England Educational Research Organization annual meeting. Stratton, VT. April 8-10, 1987.
- Chairperson, Paper Session: "Statistics and Item Response". Paper presentations by Boston College, LSOE, ERME students. New England Educational Research Organization annual meeting. Stratton, VT. April 8-10, 1987.
- Guida, F.V. & Ludlow, L.H. A cross-cultural study of test anxiety. Paper presented at the American Psychological Association annual meeting. Washington, D.C. August 1986.
- Ludlow, L.H., Levy, S. & Howard, E. Mothers of failure to thrive infants: Identification of characteristics of perceived interpersonal familial relations. Paper presented at the New England Educational Research Organization annual meeting, Rockport, ME. May 1986.
- Organizer, Symposium: "Innovative Applications of Multivariate Techniques". Paper presentations by Boston College, LSOE, ERME students. New England Educational Research Organization annual meeting. Rockport, ME. May 1986.
- Ludlow, L.H., Candee, D. & Murphy, C. On the construction of an ethical reasoning scale: An application of the Rasch model. Paper presented at the Eastern Educational Research Association annual meeting, Miami, FL. March 20-22, 1986.
- Ludlow, L.H. A strategy for the graphical representation of Rasch model residuals. Paper presented at the New England Educational Research Organization annual meeting. Rockport, ME. April 23-25, 1985.
- Chairperson. Paper Session: "Mathematics and Science". New England Educational Research Organization annual meeting. Rockport, ME. April 23-25, 1985.
- Casey, M.B., Brabeck, M.M. & Ludlow, L.H. Familial handedness and its relation to spatial ability following strategy instruction. Paper presented at the American Educational Research Association annual meeting, Chicago, IL. March 29-April 4, 1985.
- Ludlow, L.H. & Hwang, R. District vs. system level performance comparisons: Observation and proposals. Paper presented at the National Council on Measurement in Education annual meeting, Chicago, IL. April 1-3, 1985.
- Ludlow, L.H. Diagnostic techniques in research synthesis. Paper presented at the American Educational Research Association annual meeting New Orleans, LA. April 1984, ERIC Document: ED 243-937.
- Organizer, American Educational Research Association symposium. Title: Applications of Rasch models for ordered response category data. Montreal, Canada, April 1983.
- Guida, F., Ludlow, L.H. & Wilson, M. Academic anxiety, time-on-task and achievement: A structural model. Paper presented at the American Educational Research Association annual meeting, Montreal, Canada. April 1983, ERIC document: ED 228-290.
- Ludlow, L.H. Measuring change with the Rating Scale model. Paper presented at the American Educational Research Association annual meeting, Montreal, Canada. April 1983, ERIC document: ED 228-324.
- Ludlow, L.H. The graphical representation of Rasch model residuals. Poster session presented at the American Educational Research Association annual meeting, Montreal, Canada. April 1983.
- Hillocks, G. & Ludlow, L.H. A taxonomy of skills in reading and interpreting fiction. Paper presented at the American Educational Research Association annual meeting, New York, NY. March 22, 1982.
- Ludlow, L.H. A residual is more than a chi-square: Patterns in attitudes toward blindness. Paper presented at the National Council on Measurement in Education annual meeting, New York, NY. March 20, 1982, ERIC document: ED 222-523.
- Lecturer, workshop on "Measurement with Rasch Models". Sponsored by Instructional Objectives Exchange at the University of Chicago, Chicago, IL. June 15-19, 1981.

- Ludlow, L.H. An exploratory investigation of Rasch model residuals. Paper presented at the American Educational Research Association annual meeting, Los Angeles, CA. April 1981, ERIC document: ED 206-652.
- Lecturer, pre-session on "Rasch Measurement". Conducted by Benjamin D. Wright at the American Educational Research Association annual meeting, Boston, MA. April 4-6, 1980.
- Ludlow, L.H. & Bond, N.A. Harness race handicapping: An empirical multivariate investigation. Paper presented at the Western Psychological Association annual meeting, San Francisco, CA. April 1978.
- Ludlow, L.H. & Bond, N.A. A pari-mutuel betting system based on subjective win-loss utilities. Paper presented at the Conference on Decision Theory (hosted by Ward Edwards), Los Angeles, CA. February 16, 1978.
- Behrman, B. & Ludlow, L.H. A multidimensional comparison of short and long-term shape imagery. Paper presented at the Western Psychological Association annual meeting, Northridge, CA, April 1976.

**Invited addresses:**

- James, J., Matz-Costa, C., Ludlow, L., Brown, M., Besen, E., Johnson, C. (2013, April). Beyond the 'busy ethic': The meaning and measurement of engagement in later life. Invited address for the Gerontology Department at the University of Massachusetts—Boston.
- "The measurement of engagement in later life: Multiple contexts, multiple approaches". University of Auckland, Auckland, NZ. February 4, 2013.
- "What value is longitudinal research in teacher education?". University of Glasgow: Glasgow, Scotland. November 28, 2012.
- "Classical Test Theory, Item Response Theory, and Rasch Measurement: Transforming Theory Into Practice", Boston College Graduate School of Social Work and the Sloan Center for Aging and Work. Dr. Christina Costa, December 7, 2011.
- "Teacher development and retention: Insights from a longitudinal study" (with Marilyn Cochran-Smith). Keynote address. Teacher Education Forum of Aotearoa New Zealand (TEFANZ) Conference. University of Auckland, Auckland, New Zealand. October 26, 2010.
- "Missing Data: Making Something From Nothing". The Brown Bag Lunch Seminar Series. William F. Connell School of Nursing, Boston College. February 8, 2010.
- "Classical Test Theory, Item Response Theory, and Rasch Measurement: Transforming Theory Into Practice", Boston College Graduate School of Social Work. Dr. Thanh Tran, April 27, 2009.
- Cochran-Smith, M & Ludlow, L.H. Creating a culture of inquiry, evidence and action in teacher education. Presentations prepared for Pontificia Universidad Catolica de Valparaiso, Universidad Diego Portales, and Pontificia Universidad Catolica de Chile. Valparaiso and Santiago, Chile. November 25-27, 2008.
- "Results from the TNE Surveys: Program effect analyses". Nanyang Technological Institute, National Institute of Education. Boston College, April 9, 2008.
- "Results from the TNE Surveys: Program effect analyses". The University of Auckland. Auckland, New Zealand. March 11, 2008.
- "Classical Test Theory, Item Response Theory, and Rasch Measurement: Transforming Theory Into Practice", Boston College Connell School of Nursing. Dr. Anne Norris, October 30, 2007.
- "Getting to pupil learning: Value-added assessment of teacher's impact". Visiting delegation from Nanyang Technological University, National Institute of Education. Boston College, March 22, 2007.
- "Making sense of course evaluations: A longitudinal approach". New England Institute of Technology. Faculty Development Day. Warwick, RI. Dr. Richard L. Winstanley. January 27, 2007.
- "Classical Test Theory, Item Response Theory, and Rasch Measurement", Boston College Connell School of Nursing. Dr. Anne Norris, October 31, 2006.
- "Value-added modeling applied to teacher preparation and pupil learning". Association of Jesuit Colleges and Universities Teacher Education Conference. Boston College. September 28, 2006.
- "Advanced assessment and statistical modeling of Core data". Visiting Scholar. Nanyang Technological University, National Institute of Education, Singapore. July 3-July 14, 2006.
- "Practical issues in the implementation of the Teachers for a New Era project". St. Mary Immaculate College, Limerick, Ireland; St. Patrick's College, Dublin, Ireland; and University of Ulster, Belfast, Northern Ireland, June 12-16, 2006.
- "Survey development and measurement issues in longitudinal research". College of Education, The University of Auckland. Auckland, New Zealand. February 8, 2006.
- "Online faculty evaluations versus paper administrations". College of Education, The University of Auckland. Dr. John Hattie. Auckland, New Zealand. February 7, 2006.
- "Item Response Theory and Rasch Measurement". Boston College Connell School of Nursing. Dr. Anne Norris, November 8, 2005.

- "Faculty course evaluations: What is really going on in your class?" St. Mary's College (Marino), Dublin, Republic of Ireland. May 30, 2005.
- "Standardized and non-standardized forms of faculty evaluations". Mary Immaculate College, Limerick, Republic of Ireland. May 27, 2005.
- "Value added modeling: Background, implementation issues, research areas". Commonwealth Education Deans Council. Boston College. April 1, 2005.
- "Power analysis: You did what to estimate your sample size!?" Counseling and Development Psychology Dissertation Seminar, Lynch School of Education, Boston College. March 30, 2005.
- "Value-added modeling: Where did it come from, where is it going?". American Association of Colleges for Teacher Education, Winter Institute. Cancun, Mexico. January 2, 2005.
- "Item Response Theory and Rasch Measurement". Boston College Connell School of Nursing. Dr. Anne Norris, October 12, 2004.
- "Irish Primary Teachers' Lives: A Longitudinal Research Project". Colleges of Education Research Consortium, St. Patrick's College of Education, Dublin, Ireland. May 26, 2004.
- "Item Response Theory". Boston College Connell School of Nursing. PhD. Colloquia. February 24, 2004.
- "Rasch measurement: Transforming theory into practice". Boston University, Sargent College of Health and Rehabilitation Sciences. Dr. Alan Jette, December 5, 2003.
- "Item Response Theory and Rasch Measurement". Boston College Connell School of Nursing. Dr. Anne Norris, October 7, 2003.
- "Faculty course evaluations: Is a picture worth a 1000 numbers?" Michigan State University, Center for the Scholarship of Teaching. Dr. Suzanne Wilson, March 27, 2003.
- "Rasch Measurement: So what, Who cares?". University of Massachusetts at Amherst: Dr. Ron Hambleton, March 3, 2003.
- "The Massachusetts Test for Educator Licensure: Where did we start, and where are we now?" Keynote Address. Third Annual Conference on Massachusetts Teacher Test Preparation. Framingham State College, MA. Jan. 10, 2003.
- "CTT and IRT For Health Care Measurement". Boston College Connell School of Nursing. Dr. Anne Norris, October 29, 2002.
- "Rasch Models for Measuring Readiness-to-change". University of Rhode Island Cancer Prevention Institute: Director O. Prochaska. URI: March 13, 2002.
- "Teacher Tests: Who's Accountable? Who's Not? Who Decides?". AACTE annual meeting. NY,NY. February 25, 2002.
- "MTEL Preparation: Who is doing what and how successful is it". Colleges of Worcester Consortium. Holy Cross, MA. January 11, 2002.
- "Course Evaluations: Making Sense Out of the Ratings We Receive." Committee for Teaching and Learning, LSOE, Boston College. November 7, 2001.
- "MTEL Results and Title II Report Card," Association of Independent Colleges and Universities in Massachusetts: President's Only Meeting. Wellesley College. March 15, 2001.
- "On the Simulation and Analysis of Measurement Model Residuals". Educational Testing Service, Princeton, NJ. January 11, 1984. ERIC Document: ED 241-586.
- "Patterns in Attitudes Toward Blindness". Rehabilitation Research & Development Research Series. USVA Hospital, Hines, IL. February 26, 1982.

**Invited addresses to visiting delegations:**

- Universidade de Campinas, Brazil. June 4, 2010.
- Higher School of Economics, Moscow, Russia. April 23, 2010.
- Vietnam National University, Hanoi. November 19, 2009.
- National Institute of Education, Singapore. April 4, 2009.

**Reviewer:**

a) Books

- Pearson, Merrill, Prentice Hall. *Educational Research: Competencies for Analysis and Applications* (8<sup>th</sup> ed.) Gay, L.R., Mills, G. & Airasian, P. 2006
- Prentice Hall. *Understanding Research: Becoming a Competent and Critical Consumer*. Jones and Kottler. 2005.
- Allyn & Bacon. *Using Multivariate Statistics*. (4<sup>th</sup> ed.). Tabachnick & Fidell. 2003.
- Prentice Hall. *Research Methods in Education: How To Find Stuff You Need To Know*. Blind review, 2002.
- Houghton Mifflin. *Applied Statistics for the Behavioral Sciences* (5<sup>th</sup> ed.) Hinkle, Wiersma & Jurs. 2001.
- John Wiley & Sons. *Elements of Statistical Reasoning*. Minium,E., Clarke,R.C., & Coladarci,T. 2001.

Prentice Hall. *Quantitative Methods for the Social Sciences*. 2000.  
 Lawrence Erlbaum Associates. *Prospectus for Rasch Measurement: Theory, Models, and Applications*, 1999.  
 Prentice Hall. *Multivariate Data Analysis* (5th ed.) Hair, Anderson, Tatham & Black, 1999.  
 Lawrence Erlbaum Associates. *Prospectus for Design and Analysis of Questionnaires and Rating Scales*. Everitt,R. & Wolfe,E., 1999.  
 Addison Wesley Longman. *Test Theory: A Unified Treatment*. McDonald, R., 1997.  
 Longman Publishing. *Essentials for Statistical Analysis in the Behavioral Sciences* (2nd. ed.) Glasnapp,D.R. & Poggio,J.P., 1992.  
 McGraw Hill. *Psychometric Theory* (3rd. ed.) Nunnally,J. & Bernstein,I., 1991.  
 State University of New York Press.

b) Journals

<i>American Journal of Economics and Sociology</i>	<i>Archives of Physical Medicine and Rehabilitation</i>
<i>Consciousness and Cognition</i>	<i>Developmental Psychology</i>
<i>Educational Measurement: Issues and Practice</i>	<i>Educational Policy</i>
<i>Educational and Psychological Measurement</i>	<i>Educational Research Quarterly</i>
<i>Field Methods</i>	<i>Journal of Applied Measurement</i>
<i>Journal of Higher Education</i>	<i>Journal of Outcome Measurement</i>
<i>Journal of Statistics Education</i>	<i>Journal of Teacher Education</i>
<i>Management Science</i>	<i>Medical Care</i>
<i>Psychology &amp; Marketing</i>	<i>Psychological Methods</i>
<i>Psychological Reports: Perceptual and Motor Skills</i>	<i>Research Quarterly for Exercise and Sport</i>
<i>Structural Equation Modeling</i>	<i>Applied Measurement in Education</i>
<i>Journal of Technology, Learning, and Assessment</i>	<i>European Journal of Teacher Education</i>
<i>Educational Administration Quarterly</i>	<i>Assessment Matters</i>

c) Conferences

National Council on Measurement in Education  
 American Educational Research Association  
 American Educational Research Association-SIG: Rasch Measurement  
 New England Educational Research Organization  
 International Council on Education for Teaching

d) Other

University of Miami, Educational and Psychological Studies, Research, Measurement and Evaluation Program. Program Review. Co-Directors: Dr. Guerda Nicholas and Dr. Randall Penfield. October 7-9, 2009.  
 Outside reader: Seng, Lee See (2008). *The Construction and Validation of a School Quality Management Scale for Quality Improvement in School Management*. University of Malaya.  
 Invited reviewer: "What more can schools do? Identifying school building level characteristics and policies that affect student progress in mathematics and reading classrooms". Teacher Quality Partnership: Seidel K, Franco S, Wang L, Stock R & Newman I. (2006).  
 The Retirement Research Foundation. RFP submitted for funding. 1991.  
 Best Paper Competition, New England Educational Research Organization.  
 Outside reader: Kalinowski, A. (1992). *The Latent Structure of Pain Intensity*. Doctoral Dissertation, Clark University.

**External Grants:**

Co-Principal Investigator (with Marilyn Cochran-Smith). *Teacher development and teacher retention: Unraveling complex issues*. The Ford Foundation. Academy of Educational Development Project No. 3086. \$349,996. July 14, 2008.

**Boston College Grants:**

Research Expense Grant: Spring 2013. *Lag-6 autocorrelations in longitudinal course evaluations*.  
 Teaching, Advising, and Mentoring Grant. Summer 2005. *Training Better Consumers and Producers of Research*.  
 Teaching, Advising, and Mentoring Grant. Summer 2004. *Classroom Assessment Integration Project*  
 Teaching, Advising, and Mentoring Grant. Summer 2002. *Instructor Evaluation Ratings: How to Interpret and Use Them Effectively*.  
 Research Incentive Grant: Summer 1998. *Multivariate Statistics: Creative Design and Analysis*.  
 Research Expense Grant: Spring 2002, Fall 1998, Fall 1986, Spring 1986, Fall 1985, Summer 1985, Spring 1985.

Summer Research Grant: 1984. *Residual analysis as a diagnostic technique for revealing surprising responses on a test.*

**Professional Affiliations:**

American Educational Research Association and Special Interest Groups:

Rasch Measurement, Educational Statisticians, Professors of Educational Research, Faculty Evaluation	
American Statistical Association	Institute for Objective Measurement
Classification Society of North America	Eastern Educational Research Association
National Council on Measurement in Education	New England Educational Research Organization
Northeastern Educational Research Association	Psychometric Society
Western Psychological Association	

**University Service:**

Dissertations Completed: Chair (14) or Reader (62)

Search committee, LSOE/ERME: Assessment Assistant or Associate Professor, 2013-2014.

Ad hoc interviewer, Search committee, Connell School of Nursing, 2012.

Search committee, Research Services: Research Statistician, 2012.

Search committee, LSOE/ERME: Program Evaluation Assistant Professor, 2010-2011.

Search committee, Psychology Arts & Science: Statistics professor (open), 2007-2008.

Provost Advisory Committee, 2006-2007.

Search committee, LSOE/ERME: Statistics/measurement assistant professor, 2005-2006.

Search committee, LSOE/ERME: Boisi Chair, 2005-2006.

University Council on Teaching: Teaching, Advising and Mentoring Session Leader: AnDover Retreat. Natick, MA. Dec 2-3, 2005

Instructional Technology Services (Elizabeth Clark), *Teaching with New Media Award* committee. 2005.

Search committee, LSOE: Dean, 2003-2004.

Subcommittee on Atrium Classroom Design. LSOE, 2003-2004.

University Council on Teaching, 2002-2006.

Teaching, Advising, and Mentoring Grant review subcommittee (Chair 2006).

Online Faculty Evaluations subcommittee.

Chair: Educational Research, Measurement, and Evaluation Department. LSOE, 2001-present.

Committee on Teaching and Learning. LSOE, 2001-2004.

Co-coordinator, Brown Bag Research Seminar for Departments of Teacher Education, and Educational Research, Measurement and Evaluation. LSOE, 2000-present.

Statistics and Methodology Committee. 2000-2002.

Educational Policy Council, Chair. LSOE, 2000-2001.

Faculty Statistical Coordinator for Graduate Statistical Assistant program. LSOE and School of Nursing. 2000-2002.

Faculty Fellowship Committee. LSOE, 2000-2001.

Certification and Regulations Committee. LSOE, 2000-2002.

Dissertation Awards Committee. LSOE, Spring 2000.

Massachusetts Test of Educator Licensure Ad Hoc Task Force, Convener. LSOE, 1999-2002.

Teacher Education Council. LSOE, 1999-2004.

Educational Policy Council, Chair: Subcommittee-A. LSOE, 1999-2000.

Educational Policy Council, Chair: Governance Subcommittee. LSOE, Spring 1999.

Program Director: Educational Research, Measurement, and Evaluation Program. SOE, 1995-1997.

Educational Policy Committee-Policy Subcommittee (invited member). SOE, 1996-1997.

Faculty Fellowship Committee. SOE, 1994-1995.

Chair/advisor/reviewer, SOE Graduate Student Forum. 1993-1996, 2002-present.

Search Committee, School of Nursing: Associate Dean for Graduate Programs, 1993-1994.

Faculty Fellowship Committee, Chair. SOE, 1991-1992.

Tenure and Promotion Committee. SOE, 1990-1991.

Steering Committee, Andover Workshop for New Faculty. 1990.

Facilities Planning Committee. SOE (ad hoc), 1989.

Academic Vice President Computer Advisory Committee. 1987-1989.

Media Center Advisory Committee. SOE, 1986-1987.

Compensation Committee Health Issues Task Force. 1986-1987.

Student Affairs Goals for the Nineties Task Force on Technology and Student Life. 1986-1987.  
Faculty Marshall for Graduate School of Arts and Sciences Commencement Ceremony. 1986.  
Search Committee for Burns Library Conservationist-Archivist. 1986.  
Nomination Committee. SOE, 1986-1987.  
United Way Solicitor. SOE, 1986,1992.  
Search Committee: University Librarian. 1986.  
Search Committee: Assistant University Librarian for Access Services. 1985-1986.  
Faculty Representative, Interview of Finalists for Baptist Librarian Position. 1985.  
Faculty Advisor, SOE Freshman Advisement Program, 1984-1986.  
Faculty Supervisor, SOE Student Teaching. Fall 1984.  
Committee on Computer Courses/Resources. SOE, 1984-1986.  
Educational Policy Committee. SOE, 1984-1986.  
University Academic Council. 1984-1985.  
University Library Committee. 1984-1986.

### **Professional Service**

#### Research associate/analyst/collaborator:

Boston College, Roche Center for Catholic Education. "Two-Way Immersion Network". PI: Patricia Weitzel-O'Neill, PhD, 2014-present.

Boston University, Center for Psychiatric Rehabilitation. "Seminar Series: CTT, IRT and Rasch models for instrument development". Zlotka Russinova, PhD. 2014.

Harvard Medical School. "Development of a preference-based lung cancer quality of life index". PI: J. Shannon Swan, MD. 2014.

Boston College, Connell School of Nursing. "Development of the CABS: Child-Adolescent Bullying Screen". PI: Judith Vessey, PhD. 2013-present.

University of Auckland, Auckland, New Zealand. "Principals, mentors, and beginning teachers". PI: Frances Langdon, PhD. 2013-2014.

Boston College, School of Social Work. "Purpose Prize Impact". CO-PI: Marcie Pitt-Catsoupes, PhD. and Stephanie Berzin, PhD. 2012-2013.

Boston University, Center for Psychiatric Rehabilitation. "Development and validation of the Personal Growth and Recovery Scale". PI: Uma Millner, PhD. 2012-present.

Boston College, Department of Biology. "Pathways over Time: A Research Project for the Introductory Biology Laboratory". PI: Clare O'Connor, PhD. 2012-2013.

University of Auckland, Auckland, New Zealand. "Graduate Student Attributes Evaluation Project". PI: Gavin Brown, PhD. 2012-present.

Boston College, LSOE. "Two studies on long-term changes in the relation between spatial skills and math achievement in girls". PI: Beth Casey, PhD. 2012-present.

Boston College, School of Social Work, Sloan Center for Work and Aging. "Measuring Engagement". PI: Christina Costa, PhD. 2011-2013.

University of Massachusetts Donahue Institute. "Expeditionary Learning Evaluation". PI: Sue Liebowitz, PhD. 2011-2013.

University of Auckland, Auckland, New Zealand. "Instructional Leadership". PI: Viviane Robinson, PhD. 2011-present.

University of Auckland, Auckland, New Zealand. "Project RITE". Co-PIs: Lexie Grudnoff, PhD and Marilyn Cochran-Smith, PhD. 2010-present.

Center for Applied Special Technology (CAST). "Writing and reading assessment using progress monitoring (WRAPM)". PI: Tracey Hall. Wakefield, MA. 2010-2012.

Learning Sciences Research Institute, University of Illinois at Chicago. "Reading for understanding across grades 6 through 12: Evidence-based argumentation for disciplinary learning." PI: Susan R. Goldman (with Carol Lee—Northwestern). 2010-2011.

Education Development Center. "Inquiring into Science Instruction Observation Protocol (ISIOP)." PI: Daphne Minner. Newton, MA. 2010-2011.

St. Patrick's College, Dublin, Ireland. "Development of psychometric instruments to evaluate teachers' and children's use of formative assessment in primary schools". PI: Michael O'Leary, PhD. 2009-2012.

Pontificia Universidad Catolica De Valparaiso, "Design and Implementation of University Faculty Evaluation System." PI: Gloria Contreras Perez, PhD. Valparaiso, Chile. 2009-2010.

University of Diego Portales. "Design of a Monitoring and Evaluation System for Learning Methods of Undergraduate Students of the Faculty of Education." PI: Horacio Walker, PhD. Santiago, Chile. 2009-2011.

Brandeis University, The Heller School for Social Policy and Management. "Assessing a Participant Directed Service System for Low Income Children with ASD". PI: Marji Warfield, PhD. 2009-2012.

University of Massachusetts Donahue Institute, National Cancer Institute: "Cancer Information Service". PI: Sue Liebowitz, PhD. 2009.

Boston College, Connell School of Nursing. "Binge drinking and eating disorder detection". PI: Susan Kelly-Weeder, PhD. 2008.

Boston College, Department of Biology. "Evaluation of Advanced Biology Module". PI: Clare O'Connor, PhD. 2007.

Hudson Public Schools, Hudson, MA. "Teaching American History". PI: Todd Wallingford. 2007-2011.

Boston University, Programs in Deaf Studies. "The Development of a Signed Language Measurement Instrument". PI: Robert J. Hoffmeister, PhD. 2007-2011.

Boston College, Connell School of Nursing. "Cognitive Recovery from Mild Head Injury". PI: Sr. Callista Roy, 2006-2011.

Boston College, LSOE. "Treatment Development for Ethnic Minority Adolescents". PI: Guerda Nicolas. 2006.

Boston College, LSOE. "Professional Development in 'Accountable Talk': Quality Book Discussions as Means of Improving Student Reading Comprehension". Co-PI's Curt Dudley-Marling, Sara Michaels, 2006.

Boston College, LSOE. "Teacher Autonomy Scale". Director Curt Dudley-Marling. 2006.

McLean Hospital, Department of Mental Health Services Evaluation. "BASIS-24 Sensitivity Model". Director: Alex Speredelozzi. Belmont, MA. 2005-2007.

Boston College, LSOE. "Boston College Evaluative Research Project on Children's Hospital Social and Academic Discourse Program". PI: David Scanlon. 2005-2007.

Franklin W. Olin College of Engineering, Center for the Advancement of Engineering Education. "Academic Pathways Study". Director: Ozgur Eris. Needham, MA. 2005-2010.

University of Massachusetts, Amherst, School of Education, Education Policy, Research and Administration: "Academic Quality Assessment and Development: Departmental Self-Study". Chair: Joseph Berger, 2005.

Boston College, LSOE, Carnegie Foundation Project: "Teachers for a New Era". Member of the Leadership Team and the Evidence Team. Project Manager Gilda Morelli. 2004-2008.

St. Patrick's College, Dublin, Republic of Ireland, Colleges of Education Research Consortium. "Teacher's Lives". Co-directors Mark Morgan and Michael O'Leary. 2004-2008.

EDC/Center for Children and Technology, Advisory Board. "Evaluation of outcomes for Intel Teach to the Future". Director: Katie McMillan Culp. Newton, MA. 2003-2007.

Boston College, LSOE. "Culturally Meaningful Adventure Stories". PI: Beth Casey. 2003-2005.

Franciscan Children's Hospital & Rehabilitation Center. Various projects around "Physical Therapy Prognosis for Recovery". Director: Helene Dumas. Brighton, MA. 2003-2011.

Boston College, LSOE. "Orphans of Eritrea". Co-director: Irving Hurwitz. 2003-2006.

Boston College, LSOE. "Study of Generations of American Rhoades Scholars". Co-directors Ted Youn and Karen Arnold. 2002-2004.

National Education Association, The Massachusetts Center for Teaching and Learning at University of Massachusetts, Boston, "Massachusetts Teacher Preparation and Induction Study". Director: Karen O'Connor. 2001-2004.

Rehabilitation and Research Training Center on Measuring Rehabilitation Outcomes (RRTC). Boston University, Sargent College. PI: Stephen Haley, Wendy Coster. 2000-present.

University of Massachusetts, Donahue Institute for Governmental Services. "Family Trusts Project: Brightside for Children and Families". Director: Pamela Lamlein, 2000-2002.

Massachusetts Public School Districts: Malden, Revere, Fall River, Natick, Montachusets, Lunenburg, Quincy, Scituate, Chatham. Analysis of student performance on the Spring 1998 Comprehensive Assessment System (MCAS) tests. 1998-1999.

Wheelock College. "Wheelock College MECT Results: 1998-1999". Laurie Crumpacker, Undergraduate Dean Boston, MA. 1999. "Wheelock College MECT Results: 1998-2000". Vice-President Finance: Stanley Rumbaugh. 2000.

Salem State College. "Salem State College MECT Results: 1999". Professor: Jamie Wurzel. Salem, MA. 1999.

Lesley College. "Lesley College MECT Results: 1998". Provost: Janet Schulte. Cambridge, MA. 1998-1999.

Northeast Rehabilitation Health Network. "Computation of Recipient Sample Extrapolation"--expert witness. John Prochilo, Salem, NH. 1998.

National Institute of Disability Management and Research. (a) "Disability Management: Return-to-Work Coordinator Occupational Standards Survey", (b) "Homeless Job Retention and Sustained Employment Study". Director: Norm Hursh, 1998-2007.

Center for Psychiatric Rehabilitation, Boston University. "WFD Survey" and other projects. E. Sally Rogers, 1998-2004.

Center for Rehabilitation Effectiveness (CRE), Boston University, Sargent College. PI: Stephen Haley. 1998-2000.

ASTRA Hassle (through CRE)."Quality of Life Indicators". Ingela Wiklund, 1998.

Carroll Center for the Blind. "Staff salary and benefits survey". President: Rachel Rosenbaum. Newton, MA, 1997-1999.

Commission on Institutions of Higher Education, New England Association of Schools and Colleges. "Institutional Effectiveness". Bedford, MA, 1996.

New England Medical Center: Department of Pediatrics, Floating Hospital for Infants and Children. "Outcome in Developmentally Delayed Internationally Adopted Children". Boston, MA, 1993.

University of Massachusetts Medical Center: Department of Pediatrics. (1) "Social Influences on Development in Toddlers with Asthma", (2) "Early Intervention Collaborative Study: Age 10 Follow-Up". Penny Hauser-Cram. Boston, MA, 1992-1998.

Fitchburg State College: Special Education Department, Fitchburg, MA, 1993.

Education Development Center, Inc., Newton, MA, 1990.

Cox Educational Services, Cambridge, MA, 1990.

Phillips Exeter Academy, N.H. "Student Affairs Longitudinal Study". 1989-1993.

Tufts University School of Medicine, and New England Medical Center: Department of Rehabilitation Medicine. 1) Tufts Assessment of Motor Performance, and 2) Pediatric Evaluation of Disability Inventory. PI: Stephen Haley. Boston, MA., 1987-1992.

McSherry Associates, Inc., Southborough, MA, 1985.

Northeastern University, Office of Learning Resources. "Faculty Evaluation Systems". Director: Michael Theall, 1985-1989.

Connell School of Nursing, Boston College. "Ad hoc research design advisor". 1984-present.

The Center for the Study of Testing, Evaluation, and Educational Policy. Boston College, 1984-1989.

Ball Foundation, Glen Ellyn, IL, 1982.

DIAL, Inc.. "Predictors of Early Childhood Development". DeKalb, IL, 1981.

Department of Immigration. "Rasch rating scale versus partial credit models". Quebec, Canada, 1980.

California State Department of Education. "Applicability of the Rasch Model for Achievement Tests". Director: Tej Pandey. Sacramento, CA, 1979.

California Black Commission on Alcoholism. "Characteristics of alcoholics". Sacramento, CA, 1977.

Golden Bear Raceway. "Prediction System for Harness Races". Sacramento, CA, 1976.

Technical Advisory Committees (TAC)/Technical Working Groups (TWG)/Advisory Boards (AB):

New York City Leadership Academy. Long Island, NY. 2014-present.

Council for the Accreditation for Educator Preparation (CAEP). Research Committee. Washington, D.C., 2013-2016.

Boston College, Lynch School of Education, Roche Center for Catholic Education. AB: "Two-Way Immersion Network for Catholic Schools". Executive Director: Patricia Weitzel-O'Neill, PhD. 2012-present.

University of Auckland, Faculty of Education, NZ Teaching and Learning Initiative, International Project AB: "Learning to be assessment capable teachers". PI: Mary Hill, PhD. 2011-present.

Westat, Expert Advisory Panel, TWG. "Evaluation of the Regional Educational Laboratories". PI: Babette Gutmann, PhD. 2009-2012.

California State University, TAC. "CSU Evaluation Plan". Evaluation Director: David Wright, 2006-2010.

EDC/Center for Online Professional Education, AB: "Optimizing Online Professional Development", Co-PI: Mike Russell. Newton, MA. 2003-2007.

U.S. Department of Education, Office of Indian Education and the National Center for Education Statistics. TAC: "National Indian Education Survey". Chair: Henry Braun. 2003-present.

World Health Organization, AB: "Statistical strategies for cross-population comparability". Harvard, MA. 2001.

Massachusetts Department of Education, TAC: "Title II". Chair: Carol Gilbert. Boston, MA. 2000-2004.

Boston College, Lynch School of Education, AB: "Third International Mathematics and Science Study (TIMSS)". Director: Albert Beaton, Ph.D. 1994-1996.

Court Cases:

Guliano, et al. vs. The New York State Department of Education and the New York City Board of Education. 96 Civ. 8414 (CBM). 2000-2004.

NAACP. "Sarah P. Wessman v. Boston School Committee, et al." Civil Action No. 97 CV 11923 JLT. Boston, MA. 1998.

S. Gruner vs. Bolton School Committee, 1987.

Georgia Association of Educators, (G.A.E., et al., vs. Georgia State Board of Education, et al.), Civil Action No. C86-2234A, 1987.

Texas State Teachers Association, 1986.

Arkansas Education Association, (Arkansas Education Association Teacher Testing Law), 1985.

Alabama Education Association, (Allen, et al., vs. Alabama State Board of Education, et al.), Civil Action No. 81-697-N, 1984-1986.

Funding Proposal Review Panels:

National Science Foundation; Education and Human Resources Directorate; Research, Evaluation and Communication Division; Research and Evaluation on Education in Science and Engineering (REESE) proposal review panel. June, 2006.

National Science Foundation; Education and Human Resources Directorate; Research, Evaluation and Communication Division: Faculty Early Career Development (CAREER) proposal review panel. October 27-28, 2005.

Board Memberships:

Associate Editor, *Journal of Teacher Education*. 2002-2006.

Editorial Board, *Journal of Applied Measurement*. 2000-2012.

Board of Cooperating Editors, *Educational and Psychological Measurement*. 1989-2006.

Board of Registry, American Society of Clinical Pathologists, Research and Development Committee, 1989-1996.

Board of Directors, Mead Measurement Resources, Inc., Minneapolis, MN, 1985-2012.

Tenure and Promotion Review:

Promotion and Tenure: Rutgers University (2003), Boston University (2003), University of Virginia (2003), Tel Aviv University (2004), George Mason University (2007), University of Kentucky (2007), National Institute of Education—Singapore (2007, 2009), Emerson College (2008), University of Illinois at Chicago (2010), Boston University (2010).

Pre-tenure review for assistant professor. University of Buffalo--SUNY. Fall 2011.

Other:

American Education Research Association, Professional Development and Training Committee. 2004-2007.

American Association of College Teachers of Education Institutional Representative (Boston College—Lynch School of Education). 2001-present.

Association of Independent Colleges and Universities in Massachusetts (AICUM). President: Clare Cotton. Boston, MA. 2000-2004.

Co-evaluator (with David Scanlon). Project NewBCTech: Newton MA Public Schools, Co-Director Alec Peck, Boston College, 1999.

Evaluator. Boston College Collaborative: College Bound, 1989-1992.

Past President, Immediate Past President, President, Vice-president and Program Chair, Regional Director. New England Educational Research Organization, 1986-1992.

Project Coordinator (local). Educational Testing Service, GRE General Test, 1986-1987.

Evaluator (Chair). Cheney Middle School Computer Education Program, Belmont, MA, 1986.

**Honors:**

O’Leary M, Lysaght Z, & Ludlow, LH. The development of an instrument to measure teachers’ assessment for learning classroom practices. **Distinguished Paper Award**. AERA, Classroom Assessment Special Interest Group. April 28, 2013.

American Educational Research Association: **Fellow**, April 28, 2013.

Nominee, *Quality of Life Research*, Outstanding Article of the Year Award: “Replenishing a computerized adaptive test of patient-reported daily activity functioning”.

Distinguished Service Award, New England Educational Research Organization. April 22, 2004.

Nominee, Boston College Distinguished Teaching Award. May 2002.

Feature article, “The Spillover Effect”, Boston College Chronicle, January 7, 2002.

Nominee, Boston College Distinguished Teaching Award. May 2000.

Ludlow, L.H. & Bell, K. Co-recipients of the 1995 New England Educational Research Organization **Best Paper Award**: “Psychometric Characteristics of the Attitudes Towards Mathematics Scale.”

Runner-up, 1994 New England Educational Research Organization Best Paper Award: “Effect of Context in Rating of Functional Performance”.

Faculty Fellowship, Fall 1994. Title: “Graphical Comparisons of Three-Dimensional Data Structures”.

Feature article, “The Statistical Gunslinger”, Boston College Biweekly, May 7, 1992.

Runner-up, 1990 New England Educational Research Organization Best Paper Award: “The Test Anxiety Scale for Children: A Measure of Academic Anxiety?”.

- Runner-up, 1989 New England Educational Research Organization Best Paper Award: "The Tufts Assessment of Motor Performance: An Application of the Rasch Rating Scale Model".
- Ludlow, L.H. "Analyzing the Tufts Assessment of Motor Performance with the Partial Credit Model". Invited paper for the Midwest Objective Measurement Seminar, December 2, 1988.
- Runner-up, 1988 New England Educational Research Organization Best Paper Award: "The Family Map: A Graphical Representation of Family Systems Theory".
- Ludlow, L.H. "On the Simulation and Analysis of Measurement Model Residuals". Seminar conducted for Educational Testing Service, Princeton, NJ, January 11, 1984. ERIC Document: ED 241-586.
- Ludlow, L.H. "Patterns in Attitudes Toward Blindness". Invited address for the Rehabilitation Research & Development Research Series USVA Hospital, Hines, IL, February 26, 1982.

### **Professional Development:**

- Hosmer, D. Applied logistic regression. Natick, MA, October 25, 2008.
- Goldstein, H. Learning environment for multilevel methodology and applications. Coventry, England (British Educational Research Association). September 7, 2006.
- Beretvas, T. & Roberts, K. Multilevel and hierarchical linear modeling. Montreal, Canada (AERA). April 11, 2005.
- Habing, B. & Froelich, A. Multidimensional item response theory. Montreal, Canada (AERA). April 10, 2005.
- University of Massachusetts, Amherst. (Ron Hambleton). One semester course in Item Response Theory. September-December, 2004.
- University of Maryland (Directed by Robert Lissitz). Value-Added Modeling: Issues with Theory and Application. College Park, MD. October 21-22, 2004.
- National Institute of Health. Advances in Health Outcomes Measurement. Bethesda, MD. June 23-25, 2004.
- Mueller, R.O. & Hancock, G.R. Structural Equation Modeling. San Diego, CA (AERA). April 11-12, 2004.
- Mislevy, B. Graphical Techniques for Educational Assessment. New Orleans, LA (AERA). April 1, 2002.
- Conley, S. Conference on Massachusetts Teacher Test Preparation. Framingham State College, MA. January 7, 2002.
- Prochaska, J.O. & Levesque, D. Transtheoretical Model of Behavioral Change: Implications for Behavioral Health Practice. Brightside Series. Northampton, MA. December 7, 2001.
- Thompson, B. & Huberty, C. Multivariate Statistics II: Canonical Correlation Analysis. Seattle, WA. (AERA). April 24, 2001.
- Sayer, A. An Introduction to Linear Multilevel Models. Boston College, November 10-13, 2000.
- Huynh-Huynh. Robust Regression. New Orleans, LA (AERA). April 25, 2000.
- Thompson B. & Huberty, C. Multivariate Statistics II: Predictive Discriminant Analysis. Montreal, Canada (AERA). April 22, 1999.
- Bentler, P. & Schumacker, R. A Second Course in Structural Equation Modeling: Theory and EQS 6.0 Implementation. Montreal, Canada (AERA). April 19, 1999.
- McNeil, K. & Newman, I. Advanced General Linear Model: Policy Decisions. San Diego (AERA), April 13, 1998.
- Brennan, R. Generalizability Theory and Applications. San Francisco (AERA), March 27, 1989.
- Masters, G.N. & Wilson, M. Understanding and Using Partial Credit: An IRT Model for Ordered Response Categories. New Orleans (AERA), April 6, 1988.
- Bock, R.D., Mislevy, R. & Thissen, D. Applications of Item Response Theory. Chicago: Palmer House, March 29-30, 1985.
- Joreskog, K.G. & Sorbom, D. Factor Analysis, Covariance Structure Analysis, Path Analysis and Structural Equation Models. Chicago: University of Chicago, September 8-12, 1980.

### **Computer Software:**

- Masters, G.N., Wright, B.D. & Ludlow, L.H. CREDIT: A Rasch program for Partial Credit Data. MESA Psychometric Laboratory, University of Chicago, 1983.
- Masters, G.N., Wright, B.D. & Ludlow, L.H. SCALE: A Rasch program for Rating Scale Data. MESA Psychometric Laboratory, University of Chicago, 1981/2000.
- Wright, B.D., Mead, R.J. & Ludlow, L.H. KIDMAP: A graphical report of individual performance. MESA Psychometric Laboratory, University of Chicago, 1980.