

THEODORE A. WALLS

University of Rhode Island

Ph.D., Applied Developmental Psychology
Concentration in Evaluation and Statistics
Boston College, Lynch School of Education: May, 2002

M.A., Applied Developmental Psychology
Boston College, Lynch School of Education: May, 1997

B.A., Russian Language and Literature
Bates College: May, 1990

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PROFESSIONAL EMPLOYMENT

Assistant Professor (8/04 to present)
University of Rhode Island, Department of Psychology

Research Associate (8/02 to 8/04)
The Pennsylvania State University, The Methodology Center

Associate Research Scientist (7/02 to 12/02)
Yale University School of Medicine, Department of General Pediatrics

Research Associate (4/01 to 6/02)
Yale University School of Medicine, Department of General Pediatrics

Senior Quality Analyst (5/99 to 8/00)
Ceridian Performance Partners, Quality Management Group

Research Manager (9/92 to 9/96)
The Center for Quality Management, Research and Development

RESEARCH INTERESTS

Statistics and Methodology: Modeling Individual, Group, and Developmental Differences; Structural Equation Modeling; Multilevel Modeling; Time Series, Dynamical Models

Developmental Psychology: Agency, Intentionality, Motivation and Adjustment; Self-regulation; School Achievement; Substance Abuse Intervention and Prevention.

PUBLISHED WORKS

Walls, T.A., Fairlie, A., & Wood, M. (Manuscript in progress.) Predictors of binge drinking in college Freshman: A two part zero-inflated model.

Raiche, G., Walls, T.A., Riopel, M., Blais, J-G. (Manuscript in progress). Non Graphical Solutions for the Cattell's Scree Test.

Babyonyshev, M., Kavitskaya, D., & Walls, T.A. (Under review). The acquisition of syllable structure by Russian-speaking children with SLI.

Chung, H., Walls, T.A. & Park, Y. (2007). A latent transition model with logistic regression. *Psychometrika*, 71(3), 413-435.

Walls, T.A. (2007). Statistical Issues in Intensive Longitudinal Data Analysis. In S. Shiffman and A. Stone (Eds.) *The Science and Theory of Real-time Data Capture*. New York: Oxford University Press.

Walls, T.A. (2006). The developmental roots of middle childhood agency beliefs. Chapter in D. Mrosczek, D. and T.D. Little (Eds). *Handbook of Personality Development*. Mahwah, NJ: Erlbaum.

Walls, T.A., Jung, H., & Schwartz, J. (2006). Multilevel Models and Intensive Longitudinal Data. In Walls, T.A. and Schafer, J.S. (Eds.). *Models for Intensive Longitudinal Data*. New York: Oxford University Press.

Rovine, M.J. & Walls, T.A. (2006). Multilevel autoregressive modeling of interindividual differences in the stability of a process. In Walls, T.A. and Schafer, J.S. (Eds.). *Models for Intensive Longitudinal Data*. New York: Oxford University Press.

Walls, T.A. & Schafer, J.S. (2006). (Eds). *Models for Intensive Longitudinal Data*. New York: Oxford University Press.

Walls, T.A. & Little, T.D. (2005). Personal agency, motivation, and school adjustment in early adolescence. *Journal of Educational Psychology*. 97(1), 23-31.

Kuhn, B., Shapiro, E.D., Walls, T.A. & Friedman, A.H. (2004). Predictors of outcome myocarditis. *Pediatric Cardiology*, 25, 379-384.

Forsyth, B.W., Barringer, S.R., Walls, T.A., et al. (2004). Rapid HIV testing of women in labor: Too long a delay. *Journal of Acquired Immune Deficiency Syndromes*, 35(2),151-4

Caldwell, L.L., Baldwin, C., Walls, T.A., Smith, E. (2004). Proximal Effects of a Leisure Education Program for Adolescents. *Journal of Leisure Research*, 36(3), 310-335.

Cohen Weitzman, C., Roy, L., Walls, T.A. (2004). Reach-out and Read: Implications of the New Haven Program experience. *Pediatrics*, 113(5), 1248-1253.

McCarthy, P., Walls, T.A., Cicchetti, D., et al. (2003). Prediction of resource use during acute febrile illnesses. *Archives of Pediatric and Adolescent Medicine*, 157, 990-996.

Lerner, R.M., & Walls, T.A. (1999). Revisiting Individuals as producers of their development: From dynamic interactionism to developmental systems. In J. Brandtstädter & R. M. Lerner (Eds.), *Action & Self-development: Theory and research through the life span*. Thousand Oaks, CA: Sage.

Walls, T.A. & Walden, D. (1995). Understanding unclear situations and each other using the language processing method. *Center for Quality Management Journal*, 4(4).

BOOK REVIEWS

Walls, T.A. & Ho, Ringo M-H., (Review of the book: Longitudinal Models in the Social and Related Sciences.] *Biometrics*, 63, 1296-1297.

Walls, T.A., & Wielt, D.B. (in press). [Review of the book: Latent Curve Models: A Structural Equation Approach.] *Psychometrika*, 0(0), 00-00.

Stamm, K.E., Harlow, L.L. & Walls, T.A. (in press). [Review of the book: An Introduction to Latent Variable Growth Curve Modeling: Concepts, Issues, and Applications (2nd edition)]. *Structural Equation Modeling*, 0(0), 00-00.

TECHNICAL REPORTS

Walls, T.A. (2002). Relations among agency beliefs, motivational self-regulation, and academic performance in adolescence. (Doctoral dissertation. Lynch School of Education, Boston College, 2002). (UMI publication number AAT 3043419) .

Little, T.D. & Walls, T.A. (2001). *Agency in adolescence and its relationship to school performance: A report to the Hamden Public Schools on the findings from the Agency in Development Project*. Unpublished technical report.

Walden, D., Lee, T.H., Burchill, G., Woll, T., & Walls, T.A. (1996). *Final Report of the Systems Dynamics Study Group*. Unpublished technical report.

PRESENTATIONS

Ramsay, J.O. & Walls, T.A. (2006, June). Intensive Longitudinal Data: Current Progress and Future Prospects. In Ramsay, J.O. and Walls, T.A. (Chairs), *Intensive Longitudinal Data: Applications in Functional and Point Process Modeling*.

Walls, T.A. (2006, May). A latent transition model using logistic regression: An application in adolescent school adjustment. In Walls, T.A. and Sharma, D. (Chairs), *Belief-based Influences on School Adjustment in Adolescence*. Symposium at the Biennial Meeting of the International Society for the Study of Behavioural Development (ISSBD). [scheduled]

Walls, T.A. (2005, May). Intensive longitudinal data analysis. In Walls, T.A. (Chair), *Diary Methods, Microgenetic Designs and Intensive Longitudinal Data Analysis*. The American Psychological Society Annual Convention.

Walls, T.A. (2004, May). Advances in multi-level modeling of intensive longitudinal data. In Etz, K. & Walls, T.A. (Chairs), *Case Studies in Real-time Data Collection: Innovation in Practice and Methods*. The Society for Prevention Research (SPR).

Walls, T.A. (2005, April). Discussion of talks in telemetric monitoring. In Velicer, W.F. (Chair). *Telemetric monitoring for behavioral medicine research*. Society for Behavioral Medicine. Discussant.

Walls, T.A. (2005, April). Intensive longitudinal data analysis. In Etz, K. (Chair), *Real Time Data Capture: Issues and Implications for Developmental Research*. Society for Research on Child Development. Panelist.

Walls, T.A. & Malmberg, L. (2004, July). Relations among personal agency, motivation and school adjustment in early adolescence. In Walls, T.A. & Malmberg, L. (Chairs), *Adjustment and Action-control in the School Context*. Symposium at the Biennial Meeting of the International Society for the Study of Behavioural Development (ISSBD).

Walls, T.A. (2003, June). Defining the developmental window and selecting measurement occasions in middle childhood intervention trials. Poster session presented at the *MacArthur Network Conference on Middle Childhood Development: Building Pathways to Success*.

Abdo, D.C., Leventhal, J.M., Walls, T.A. (2003, May). A comparison of fractures in young children over two time periods: 1979-1983 and 1991-1994. Poster session presented at the *Annual Meeting of the Pediatric Academic Society*.

Leventhal, J.M., Walls, T.A. & Seitz, V. (2003, May). A randomized-controlled trial of the Bright Beginnings Intervention for Teenage Mothers: Well-being outcomes. Poster session presented at the *Annual Meeting of the Pediatric Academic Society*.

Leventhal, J.M., Walls, T.A. & Senturias, Y.S.N. (2003, May). A randomized-controlled trial of the Bright Beginnings Intervention for Teenage Mothers: Medical outcomes. Poster session presented at the *Annual Meeting of the Pediatric Academic Society*.

Walls, T.A. (2003, April). Motivation, agency and adolescent thriving. Poster session presented at the *Biennial Meeting of the Society for Research on Child Development*.

Thierfelder, F., Walls, T.A., Katz, K., & Forsyth, B.W. (2002, May). Parental contributions to perception of vulnerability of children born with very low birth weight. Poster session presented at the *Annual Meeting of the Pediatric Academic Society*.

Kuhn, B., Shapiro, E.D. & Walls, T.A. (2002, May). Predictors of outcome of myocarditis. Poster session presented at the *Annual Meeting of the Pediatric Academic Society*.

Cohen Weitzman, C., Roy, L., Walls, T.A. (2001, September). More evidence for ROR: A home-based study. *Society for Developmental and Behavioral Pediatrics*. Annual Meeting. Ne York, NY. (Presentation cancelled due to events of 09.11.01).

Walls, T.A., Anderson, K., & Hauser-Cram, P. (1999, April). Relations between parental involvement and children's initial academic skills. Poster presentation at the *Biennial Meeting of the Society for Research on Child Development*.

INVITED TALKS

Walls, T.A. (2006, August). Developments in Longitudinal Data Analysis. In L. Harlow. (Chair), *Launching a Minority Student Quantitative Psychology Program*. Invited lecture at the American Psychological Association (APA).

Walls, T.A. (2006, August). Intensive Longitudinal Data. In T.A. Walls and D. Rinsdkopf. (Chairs), *Multilevel Extensions for Discrete Time-Intensive Longitudinal Data*. Invited symposium at the American Psychological Association (APA).

Walls, T.A. (2005, May). Intensive Longitudinal Data Analysis. In Etz, K. (Chair), *Using Real Time Data Capture in Prevention Science (Pre-conference)*. Invited talk at the Society for Prevention Research (SPR).

Walls, T.A. & Rovine, M.J. (2004, July). Multi-level Autoregressive Modeling. In T.A. Walls (Chair), *Models for Intensively Measured Data*. Symposium conducted at the 24th Biennial Conference of the Society for Multivariate Analysis in the Behavioral Sciences, Jena, Germany.

Walls, T.A. (2004, May). Issues in intensive longitudinal data analysis. In L. Burk (Chair) *Issues in Data Analysis*. Symposium conducted at the Compliance in Health Care and Research Conference. Hosted by the American Heart Association, Washington DC.

Walls, T.A. (2004, March). Scientific Issues Driving Model Development for Intensive Longitudinal Data. In R. Li (Chair) *Analysis of Intensively Collected Data*. Symposium conducted at the Annual Meeting of the Eastern North American Region of the International Biometric Society. Pittsburg, PA.

Walls, T.A. (2003, September). Methodological and statistical developments for EMA databases. In Atienza, A. (Chair) *Innovations in real-time data capture*. Symposium conducted at the National Cancer Institute Conference on the Science of Real-Time Data Collection: Self-reports in Health Research, Charleston, SC.

Walls, T.A. (2003, May). *Developmental Windows: Setting the number of measurement occasions*. Paper presented at the Research Roundtable of the Department of General Pediatrics, Yale University School of Medicine. New Haven, CT.

Walls, T.A. (2001, November). *Use of structural equation models to understand resource use*. Paper presented at the Research Roundtable of the Department of General Pediatrics, Yale University School of Medicine. New Haven, CT.

TRAINING POSITIONS

Adjunct Faculty. Department of Psychology. Southern Connecticut State University, New Haven, CT. Fall 2002.

Adjunct Faculty. Department of Psychology. Boston College, Chestnut Hill, MA. Spring 2000.
Teaching Assistant. Department of Psychology. Boston College, Chestnut Hill, MA. Fall and Spring, 2000. Dr. Peter Gray and Dr. Malcolm Watson.

Research Assistant. The Comprehensive Child Development Project. Funded by the MacArthur Network. 1997-1998. Boston College and UCLA. Directed by Dr. Penny Hauser-Cram and Dr. Deborah Stipek.

Research Assistant. The Brookline Early Intervention Project Follow-Up Study. Funded by the Robert Wood Johnson Foundation. 1996-1997; 1998-1999. Directed by Dr. Penny Hauser-Cram, Boston College and Dr. Judy Palfrey, Boston Children's Hospital.

GRANT AWARDS

Online Tailored Interventions and Relational Agents for Exercise and Sun Protection. \$2,788,056. Fall 2007-Spring 2001. Technical Advisor.

Sibling Influences on Smoking: Dyadic Diary Data Analyses. Subcontract awarded by the Brown University School of Medicine. \$30,000. Fall, 2007-Spring 2008. (PI).

Dynamical Models for Intensive Longitudinal Studies of Smoking Behavior. Awarded by the American Cancer Society. \$594,000. Winter 2006-Fall 2011. (PI).

Telemetric Assessment of Movement Stereotypy in Children with ASD. (Co-PI). Awarded to the Groden Center. \$118,880. May 2006. Technical Advisor.

Sibling Influences on Smoking: Analytical Component. Subcontract awarded by the Brown University School of Medicine. \$35,000. Fall, 2006-Spring 2007. (PI).

Models for Intensive Longitudinal Data: Behavioral Control Systems. Subcontract awarded by the Methodology Center at Penn State. \$28,000. September, 2005. (PI).

Undergraduate Methods in Psychology Outcomes Assessment Planning. Awarded by the Office of the Provost, University of Rhode Island. \$2000. June, 2005. (PI).

Integrated Quantitative Methods and Research Methods in Psychology. Awarded by the Rhode Island Teacher Education Renewal Project (RITER), University of Rhode Island. \$600. June, 2005. (PI).

Positive Characteristics Driving Transitions Among Latent Academic Performance Classes. Awarded by the Murray Research Center, Radcliffe Institute for Advanced Study, Harvard University. \$8000. September, 2005. (Co-PI with Hwan Chung).

“The Impact of Metacognitive Skills on Academic Success” Awarded by the Children, Families and Youth Consortium, Penn State. \$4000. (PI).

Grant for the manuscript development of Walls, T.A. & Schafer, J.S., (Eds). Models for Intensive Longitudinal Data. \$5000.

HONORS AND AWARDS

URI Exceptional Performance Award, 2007.

Guest Faculty, Summer Training Institute for Randomized Clinical Trials Involving Behavioral Interventions. July, 2006.

URI Faculty Development Award. (\$1000). For exceptional research accomplishment. August, 2006.

Appointed panelist on the National Cancer Institute, National Longitudinal Study of Tobacco Use and Quitting Study. Sept, 2005.

Travel Award for Society for Prevention Research. University of Rhode Island Alumni Association. May, 2005.

Appointed Student Research Mentor. Yale University School of Medicine. Fall 2002.

Appointed Research Affiliate. The Agency in Development Project, Yale University, 2000-2002; Directed by Dr. Todd Little.

Lynch Graduate School of Education, Graduate Education Association. Travel Award to the Society for Research on Child Development. 1999.

Graduate Education Association at Boston College. Elected Research Officer. 1998-1999.

U.S. State Department/Middlebury College Undergraduate Foreign Exchange Scholar to the Moscow State Pedagogical Institute, Moscow, Russia, 1989-1990.

COURSES TAUGHT

Advanced Methods Group (1x)
Experimental Design (1x)
Longitudinal Methods (2x)
Developmental Psychology (4x)

Research Design (1x)
Introductory Statistics (3x)
Developmental Methodology (1x)

SERVICE

University of Rhode Island Outing Club, Faculty Advisor, 2005-2007

University of Rhode Island, Honor's Program Committee. 2006-2007.

University of Rhode Island, Behavioral Science Doctoral Admissions Committee, 2004-2006.

Organized multi-site study group and speaker series for the development of methods for intensive longitudinal data.

Ad-hoc Reviewer, Psychological Methods. 2003-2004.

Reviewer, International Journal of Behavioral Development. 2003-2007.

Reviewer, Worth Publishers. Readings on the Development of Children, Gauvain & Cole. 2003.

Reviewer, Child Abuse and Neglect. 2002-2006.

Managing Editor, The Center for Quality Management Journal. 1993-1995.

WORKSHOPS AND CONFERENCES ATTENDED

Statistical Methods for Modeling Human Dynamics: An Interdisciplinary Dialogue. Notre Dame Series on Quantitative Methodology, Dr. Sy-Miin Chow. South Bend, IN. May, 2007.

Workshop: Statistical Methods for Modeling Dynamic Systems. Drs. James O. Ramsay, Giles Hooker, and David Campbell. Montreal, CA. July 2007.

Multilevel Modeling in Mplus. Dr. Bengt Muthen. Baltimore, MD. February, 2005.

Annual Meeting of the Society for Prevention Research, Washington DC. June, 2003.

Summer Institute on Longitudinal Methods, Dr. Judith Singer and Dr. John Willett. The Methodology Center, The Pennsylvania State University, State College, PA. June, 2003.

Notre Dame Series on Quantitative Methodology, Dr. Steven Boker. South Bend, IN. May, 2003.

Biennial Meeting of the Society for Research on Child Development, Tampa, FL, April, 2003.

Annual Meeting of the International Biometry Society, Eastern North American Region. Tampa, FL. April, 2003.

Analyzing Developmental Trajectories: A Group-based Approach, Dr. Daniel Nagin. The Methodology Center, The Pennsylvania State University, State College, PA. February 2003.

Experience Sampling Using Palm Pilots to Capture Day-to-Day Life in Numbers. Dr. Jean-Philippe Laurenceau. Murray Research Center, Radcliffe College, Cambridge, MA. February, 2003.

Structural Equations Modeling Workshop, Dr. Michael J. Rovine. Spring, 2001. Boston College.

TQM in the Universities with Dr. W. Edwards Deming. Conference Organizer. Spring 1993.

Pegasus International Systems Thinking Conference, Spring 1996.

The Russian School, Norwich University, Summer 1988.

TECHNICAL CONSULTING

CCDP, Boston College, Winter 2007.

Research and Design Unit of the Schiefelbusch Center for Life-Span Studies, University of Kansas, November, 2003; May 2004.

Yale University School of Medicine, March-April 2001; Spring-Fall, 2004.

DataSquare, Fall 2001.

Ceridian Performance Partners, January-March 1999.

Millipore Corporation and Narragansett Electric, Summer 1996.

LANGUAGE ABILITY:

Russian (Fluent); German (Limited reading)

PRIMARY STATISTICAL SOFTWARE:

R
SAS
LISREL
SPSS
SPLUS
MPLUS