

VITA

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EDUCATION

1977 B.A., University of Connecticut (Psychology)
1983 Ph.D., University of Southern California (Quantitative Psychology)

PROFESSIONAL EXPERIENCE

1994-present *Director*, The Methodology Center, College of Health and Human Development, and
Professor, Departments of Human Development & Family Studies, and Statistics
The Pennsylvania State University

1987-1993 *Assistant/Associate Professor*, J.P. Guilford Laboratory of Quantitative Psychology
Department of Psychology
University of Southern California

1983-1987 *Senior Research Associate/Assistant Research Professor*, Department of Preventive
Medicine and Institute for Health Promotion and Disease Prevention Research
University of Southern California

HONORS AND AWARDS

1987 Elected to Society for Multivariate Experimental Psychology
1991 R.B. Cattell Award for Distinguished Multivariate Behavioral Research
1991 USC Psychology Department Mentorship Award
1992 USC Psychology Department Teacher of the Year
1995 President of Society of Multivariate Experimental Psychology
1996 Elected Fellow, Division 5, American Psychological Association
1997 Elected Fellow, American Psychological Society
1997-2004 Selected as a Core Scientist for the Tobacco Etiology Research Network (funded by
the Robert Wood Johnson Foundation)
2000 Penn State Faculty Scholar Medal for the Social and Behavioral Sciences
2004 President's Award, Society for Prevention Research
2007 President-elect, Society for Prevention Research (term to begin 2009)

PROFESSIONAL SERVICE: EDITORIAL AND JOURNAL REVIEW ACTIVITY

Associate Editor of *Prevention Science*, 1998-2005
Associate Editor of *Multivariate Behavioral Research*, 1992-1995
Associate Editor of *Journal of Educational Statistics*, 1992-1994
Editorial Board of *Psychological Methods*, 1996-1998

Ad hoc reviewer for many journals, including *Psychometrika*, *Psychological Methods*, *Psychological Bulletin*, *Journal of Mathematical Psychology*, *Journal of Personality and Social Psychology*, *Applied Psychological Measurement*, *Journal of Consulting and Clinical Psychology*, *Computational Statistics and Data Analysis*, *Psychology and Aging*, *Biometrics*, *Statistics in Medicine*, *Journal of Research on Adolescence*.

Chair, Society for Prevention Research Publications Committee (2005-present)

PROFESSIONAL SERVICE: GRANT PROPOSAL REVIEW

Member of the National Institute on Drug Abuse Centers Study Section, 1998-present
Member of the National Institute on Drug Abuse Prevention and Epidemiology Study Section, 1997-1998

PROFESSIONAL SERVICE: OTHER

Chair of Psychometric Society's Committee on Graduate Student Recruitment, 1991-1993 (appointed)
Program Chair for American Psychological Association 1993 Convention, Division 5 (appointed)
Member-at-large of the Executive Committee, American Psychological Association, Division 5 (elected), 1991-1995
Mission to Kazakstan for United Nations Drug Control Program, July 1996
Member Board of Directors, Society for Prevention Research, 1997-2000, and 2005-present

PROFESSIONAL AFFILIATIONS

American Psychological Association (Division 5)
American Psychological Society
American Statistical Association
Society for Multivariate Experimental Psychology
Society for Prevention Research
College on Problems of Drug Dependence

COURSES TAUGHT

Introductory Statistics (Undergraduate)
Psychological Measurement (Undergraduate)
Methods and Statistics in Longitudinal Research (Graduate)
Analysis of Categorical Data (Graduate)
Multivariate Statistics (Graduate)
Measurement (Graduate)
Latent Class and Latent Transition Analysis (Graduate)

FEDERAL GRANTS AWARDED

- 1984-1986 National Institute on Drug Abuse; *Longitudinal Scaling in Drug Abuse Prevention*; Principal Investigator; Direct costs: \$75,000 (approx.)
- 1984-1986 National Science Foundation; *Longitudinal Scaling Methodology*; Principal Investigator; Direct costs: \$80,000 (approx.)
- 1987-1991 National Institute on Drug Abuse; *Latent Path Methodology in Drug Abuse Prevention*; Principal Investigator; Direct costs: \$97,000 (approx.)
- 1991-1996 National Institute on Drug Abuse; *Latent Path/Latent Transition Analysis in Drug Abuse Prevention (Competing Continuation)*; Principal Investigator; Direct costs: \$365,000 (approx.)
- 1996-2000 National Institute for Drug Abuse; *Center for the Study of Prevention through Innovative Methodology (P50)*; Principal Investigator; Direct costs: \$2,000,000 (approx.)
- 1998-2003 National Institute on Drug Abuse; *Drug Abuse Prevention Research Methodology Conferences*; Principal Investigator; Direct costs: \$150,000 (approx.)
- 2000-2005 National Institute on Drug Abuse; *Center for Prevention Methodology (P50)*, Principal Investigator; Direct costs: \$4,400,000 (approx.)
- 2003-2005 National Institute on Drug Abuse; *Drug Abuse Prevention Research Methodology Conferences*; Principal Investigator; Direct costs: \$73,800 (approx.)
- 2005-2010 National Institute on Drug Abuse; *Drug Abuse Prevention Research Methodology Conferences*; Investigator; Direct costs: \$125,000 (approx.)
- 2005-2010 National Institute on Drug Abuse; *Prevention and Methodology Training*; Investigator; Direct costs: \$1,800,000 (approx.)
- 2004-2009 National Institute on Drug Abuse; *Methodology for Drug Abuse Prevention Research (K05 Award)*; Principal Investigator; Direct costs: \$617,000 (approx.)
- 2005-2010 National Institute on Drug Abuse; *Center for Prevention and Treatment Methodology (P50)*, Principal Investigator; Direct costs: \$6,000,000 (approx.).
- 2007-2001 NIH Roadmap; *Dynamical systems and related engineering approaches to improving behavioral interventions (R21)*, Principal Investigator with Daniel Rivera; Direct costs: \$1,000,000.

OTHER GRANTS AWARDED

- 1989 American Psychological Association; *Best Methods for the Analysis of Change* (a grant to hold a conference and prepare a book); Awarded jointly to J.L. Horn and L.M. Collins; Direct costs: \$18,559. Conference held 10/29-31/89; book published 8/91.
- 1997 Penn State Continuing and Distance Education Program Innovation Fund; *Biennial Summer Institute in Longitudinal Methods*; Direct costs: \$6,913. Summer Institute held 5/19-21/97.
- 1998 American Psychological Association; *New Methods for the Analysis of Change* (a grant to hold a conference and prepare a book); Awarded jointly to L.M. Collins and A.G. Sayer; Direct costs: \$14,000. Conference held 10/12-14/98. Book published 2001.

BOOKS AND MONOGRAPHS

- Collins, L.M., & Horn, J.L., Eds. (1991). *Best methods for the analysis of change: Recent advances, unanswered questions, future directions*. Washington, D.C.: American Psychological Association.
- Collins, L.M., & Seitz, L.A., Eds. (1994). *Advances in data analysis for prevention intervention research*. Washington, D.C.: National Institute on Drug Abuse.
- Collins, L.M., & Sayer, A.G., Eds. (2001). *New methods for the analysis of change*. Washington, D.C.: American Psychological Association.
- Collins, L.M., & Lanza, S.T. (in preparation). *Latent class and latent transition analysis for the social, behavioral, and health sciences*. New York: Wiley.

SPECIAL ISSUES OF JOURNALS

- Collins, L.M., & Millsap, R.E. (1998). Special issue of *Multivariate Behavioral Research: Innovative methods for prevention research*.
- Collins, L.M., Flaherty, B.P., & Colby, S. (Eds.). (2002). Special issue of *Drug and Alcohol Dependence: Measurement and design issues in tobacco and drug use research*. Elsevier.
- Murphy, S.A., Collins, L.M., & Rush, A.J. (2007). Special issue of *Drug and Alcohol Dependence: Customizing treatment to the patient: Adaptive treatment strategies*. Elsevier.

JOURNAL ARTICLES AND BOOK CHAPTERS

- Collins, L.M., Cliff, N., Cudeck, R.A., McCormick, D.J., & Zatzkin, J.L. (1983). Patterns of crime in a birth cohort. *Multivariate Behavioral Research, 18*, 235-258.
- Graham, J.W., Flay, B.R., Johnson, C.A., Hansen, W.B., & Collins, L.M. (1984). Group comparability: A multiattribute utility measurement approach to the use of random assignment with small numbers of aggregated units. *Evaluation Review, 8*, 247-260.
- Collins, L.M., & Cliff, N. (1985). Axiomatic foundations of a three-set Guttman simplex model with applicability to longitudinal data. *Psychometrika, 50*, 147-158.
- Hansen, W.B., Collins, L.M., Johnson, C.A., & Graham, J.W. (1985). Self-initiated smoking cessation among high school students. *Addictive Behaviors, 10*, 261-275.
- Hansen, W.B., Collins, L.M., Malotte, C.K., Johnson, C.A., & Fielding, J.E. (1985). Attrition in prevention research. *Journal of Behavioral Medicine, 8*, 261-275.
- Collins, L.M., Graham, J.W., Hansen, W.B., & Johnson, C.A. (1985). Agreement between retrospective accounts of substance use and earlier reported substance use. *Applied Psychological Measurement, 9*, 301-309.
- Collins, L.M., Cliff, N., McCormick, D.J., & Zatzkin, J.L. (1986). Factor recovery in binary data sets: A simulation. *Multivariate Behavioral Research, 21*, 377-391.
- Cliff, N., McCormick, D.J., Zatzkin, J.L., Cudeck, R.A., & Collins, L.M. (1986). BINCLUS: Non-hierarchical clustering of binary data. *Multivariate Behavioral Research, 21*, 201-227.
- Johnson, C.A., Hansen, W.B., Collins, L.M., & Graham, J.W. (1986). High school smoking prevention: Results of a three-year longitudinal study. *Journal of Behavioral Medicine, 9*, 439-452.

- Collins, L.M. (1987). Deriving sociograms via asymmetric multidimensional scaling. In Young, F.W., & Hamer, R.M. (eds.), *Multidimensional scaling: Theory and applications*, pp. 179-196. Hillsdale, New Jersey: Lawrence Erlbaum Associates
- Collins, L.M., Sussman, S., Rauch, J.M., Dent, C.W., Johnson, C.A., Hansen, W.B., & Flay, B.R. (1987). Psychosocial predictors of young adolescent cigarette smoking: A sixteen-month, three-wave longitudinal study. *Journal of Applied Social Psychology, 17*, 554-573.
- Flay, B.R., Hansen, W.B., Johnson, C.A., Collins, L.M., Dent, C.W., Dwyer, K.M., Grossman, L.M., Hockstein, G., Rauch, J., Sobel, J.L., Sobol, D.F., Sussman, S., & Ulene, A. (1987). Implementation effectiveness trial of a social influences smoking prevention program using schools and television. *Health Education Research: Theory and Practice, 2*, 385-400.
- Hansen, W.B., Malotte, C.K., Collins, L.M., & Fielding, J.A. (1987). Dimensions and psychosocial correlates of adolescent alcohol use. *Journal of Alcohol and Drug Education, 32*, 19-31.
- Marks, G., Solis, J., Richardson, J.L., Collins, L.M., Birba, L., & Hisserich, J.C. (1987). Health behavior of elderly Hispanic women: Does cultural assimilation make a difference? *American Journal of Public Health, 77*, 1315-1319.
- Richardson, J.L., Marks, G., Solis, J., Collins, L.M., Birba, L., & Hisserich, J.C. (1987). Frequency and adequacy of breast cancer screening among elderly Hispanic women. *Preventive Medicine, 16*, 761-774.
- Cliff, N., Collins, L.M., Zarkin, J.L., Gallipeau, D., & McCormick, D.J. (1988). An ordinal scaling method for questionnaire and other ordinal data. *Applied Psychological Measurement, 12*, 83-97.
- Collins, L.M., Cliff, N., & Dent, C.W. (1988). The longitudinal Guttman simplex: A new methodology for measurement of dynamic constructs in longitudinal panel studies. *Applied Psychological Measurement, 12*, 217-230.
- Collins, L.M., & Dent, C.W. (1988). Omega: A general formulation of the Rand index of cluster recovery. *Multivariate Behavioral Research, 23*, 231-242.
- Collins, L.M., & Cliff, N. (1990). Using the Longitudinal Guttman Simplex as a basis for measuring growth. *Psychological Bulletin, 108*, 128-134.
- Donoghue, J.R., & Collins, L.M. (1990). A note on the unbiased estimation of the intraclass correlation. *Psychometrika, 55*, 159-164.
- Collins, L.M. (1991). Measurement in longitudinal research. In L.M. Collins & J.L. Horn (Eds.), *Best methods for the analysis of change: Recent advances, unanswered questions, future directions*. Washington, D.C.: American Psychological Association.
- Collins, L.M. (1991). The measurement of dynamic latent variables in longitudinal aging research: Quantifying adult development. *Experimental Aging Research, 17*, 13-20.
- Graham, J.W., Collins, L.M., Wugalter, S.E., Chung, N.K., & Hansen, W.B. (1991). Modeling transitions in latent stage-sequential processes: A substance use prevention example. *Journal of Consulting and Clinical Psychology, 59*, 48-57.
- Collins, L.M., & Wugalter, S.E. (1992). Latent class models for stage-sequential dynamic latent variables. *Multivariate Behavioral Research, 27*, 131-157.
- Collins, L.M., Fidler, P.L., Wugalter, S.E., & Long, J.L. (1993). Goodness-of-fit testing for latent class models. *Multivariate Behavioral Research, 28*, 375-389.

- Collins, L.M. (1994). Some design, measurement, and analysis pitfalls in drug abuse prevention research and how to avoid them: Let your model be your guide. In A. Cazares & L. Beatty (Eds.), *Scientific methods for prevention intervention research*. National Institute on Drug Abuse Research Monograph.
- Collins, L.M., Graham, J.W., Long, J., & Hansen, W.B. (1994). Crossvalidation of latent class models of early substance use onset. *Multivariate Behavioral Research*, 29, 165-183.
- Collins, L.M., Graham, J.W., Rousculp, S.S., Fidler, P.L., Pan, J., & Hansen, W.B. (1994). Latent transition analysis and how it can address prevention research questions. In L.M. Collins & L. Seitz. (Eds.) *Advances in data analysis for prevention research*. National Institute on Drug Abuse Research Monograph.
- Collins, L.M., & Seitz, L. (1994). New methodology for substance abuse prevention research. In L.M. Collins & L. Seitz (Eds.) *Advances in data analysis for prevention research*. National Institute on Drug Abuse Research Monograph.
- Hansen, W.B., & Collins, L.M. (1994). Seven ways to increase power without increasing N. In L.M. Collins & L. Seitz (Eds.) *Advances in data analysis for prevention research*. National Institute on Drug Abuse Research Monograph.
- Collins, L.M., & Johnston, M.V. (1995). Analysis of stage-sequential change in rehabilitation research. *American Journal of Physical Medicine and Rehabilitation*, 163-170.
- Collins, L.M. (1996). Measurement of change in research on aging: Old and new issues from an individual growth perspective. In J.E. Birren & K.W. Schaie (Eds.), *Handbook of the psychology of aging, Fourth edition*. San Diego, CA: Academic Press.
- Collins, L.M. (1996). Research design and methods. In J.E. Birren (Ed.), *Encyclopedia of gerontology: Age, aging, and the aged*. San Diego, CA: Academic Press.
- Collins, L.M., Fidler, P.L., & Wugalter, S.E. (1996). Some practical issues related to estimation of latent class and latent transition parameters. In A. von Eye & C.C. Clogg (Eds.), *Analysis of categorical variables in developmental research*.
- Posner, S.F., Collins, L.M., Longshore, D., & Anglin, D. (1996). The acquisition and maintenance of safer sexual behaviors among injection drug users. *Substance Use and Misuse*, 31, 1995-2015.
- Velicer, W.F., Martin, R.A., & Collins, L.M. (1996). Latent transition analysis for longitudinal data. *Addiction*, 91 (supplement), S197-S209.
- Collins, L.M., Graham, J.W., Rousculp, S.S., & Hansen, W.B. (1997). Heavy caffeine use and the beginning of the substance use onset process: An illustration of latent transition analysis. In K. Bryant, M. Windle, & S. West (Eds.), *The science of prevention: Methodological advances from alcohol and substance abuse research* (pp.79-99). Washington, D.C.: American Psychological Association.
- Collins, L.M., & Tracy, A.J. (1997). Estimation in complex latent transition models with extreme data sparseness. *Kwantitatieve Methoden*, 55, 57-71.
- Collins, L.M., Graham, J.W., & Flaherty, B.P. (1998). An alternative framework for defining mediation. *Multivariate Behavioral Research*, 33, 295-312.
- Collins, L.M., & Shanahan, M.J. (1998). Family-based prevention in developmental perspective: Design, measurement, and analytic issues. In K.E. Etz, E.B. Robertson, & R.S. Ashery (Eds.), *Drug abuse prevention through family intervention*. National Institute on Drug Abuse Research Monograph 177.

- Collins, L.M., Hyatt, S.L., & Graham, J.W. (2000). LTA as a way of testing models of stage-sequential change in longitudinal data. In T.D. Little, K.U. Schnabel, & J. Baumert (Eds.), *Modeling longitudinal and multiple-group data: Practical issues, applied approaches, and specific examples* (pp. 147-161).. Hillsdale, NJ: Erlbaum.
- Collins, L.M., & Sayer, A.G. (2000). Growth and change in social psychology research: Design, measurement, and analysis. In H. Reis & C. Judd (Eds.), *Handbook of research in social psychology*. Cambridge: Cambridge University Press, pp. 478-495.
- Guo, J., Collins, L.M., Hill, K.G., & Hawkins, J.D. (2000). Developmental pathways to alcohol abuse and dependence in young adulthood. *Journal of Studies on Alcohol*, 61, 799-808.
- Hyatt, S.L., & Collins, L.M. (2000). Using latent transition analysis to examine the relationship between parental permissiveness and the onset of substance use. In J. Rose, L. Chassin, C. Presson, & S. Sherman (Eds.), *Multivariate Applications in Substance Use Research* (pp. 259–288). Hillsdale, NJ: Erlbaum.
- Collins, L.M. (2001). Measurement reliability for static and dynamic categorical latent variables. In L. Collins & A.G. Sayer (Eds.), *New methods for the analysis of change* (pp. 273-288). Washington, D.C.: American Psychological Association.
- Collins, L.M., Schafer, J.L., & Kam, C.K. (2001). A comparison of inclusive and restrictive strategies in modern missing-data procedures. *Psychological Methods*, 6, 330-351.
- Collins, L.M. (2002). Using latent transition analysis to examine the gateway hypothesis. In D. Kandel & M. Chase (Eds.), *Examining the gateway hypothesis: Stages and pathways of drug involvement* (pp. 254-269). Cambridge: Cambridge University Press.
- Collins, L.M., & Flaherty, B.P. (2002). Latent class models for longitudinal data. In A.L. McCutcheon & J.A. Hagenaars (Eds.) *Applied latent class analysis* (pp. 287-303). Cambridge: Cambridge University Press.
- Collins, L.M., & Graham, J.W. (2002). The effect of the timing and temporal spacing of observations in longitudinal studies of tobacco and other drug use: Temporal design considerations. *Drug and Alcohol Dependence*, 68, S85-S96.
- Lanza, S. T., & Collins, L.M. (2002). Pubertal timing and the stages of substance use in females during early adolescence. *Prevention Science*, 3, 69-82.
- Thompson, S.K., & Collins, L.M. (2002). Adaptive sampling in research on risk-related behaviors. *Drug and Alcohol Dependence*, 68, S-57-S67.
- Collins, L.M., & Flaherty, B.P. (2003). Methodological considerations in prevention research. In Z. Sloboda and W. Bukoski (Eds.), *Handbook for drug abuse prevention: Theory, science, and practice* (pp. 557-570). New York: Plenum Press.
- Lanza, S., Flaherty, B.P., & Collins, L.M. (2003). Latent class and latent transition analysis. In J. A. Schinka & W. F. Velicer (Eds.), *Handbook of psychology: Vol. 2. Research methods in psychology* (pp. 663-685). Hoboken, NJ: Wiley.
- Collins, L.M., Murphy, S.A., & Bierman, K. (2004). A conceptual framework for adaptive preventive interventions. *Prevention Science*, 3, 185-196.
- Donny, E.C., Lanza, S.T., Balster, R.L., Collins, L.M., Caggiula, A., & Rowell, P. (2004). Using growth models to relate acquisition of nicotine self-administration to break point and nicotinic receptor binding. *Drug and Alcohol Dependence*, 75, 23-35..

- Lanza, S.T., Donny, E.C., Collins, L.M., & Balster, R.L. (2004). Analyzing the acquisition of drug self-administration using growth curve models. *Drug and Alcohol Dependence*, *75*, 11-21.
- Lanza, S.T., Collins, L.M., Schafer, J.L., & Flaherty, B.P. (2005). Using data augmentation to obtain standard errors and conduct hypothesis tests in latent class and latent transition analysis. *Psychological Methods*, *10*, 84-100.
- Collins, L.M., Murphy, S.A., Nair, V., & Strecher, V. (2005). A strategy for optimizing and evaluating behavioral interventions. *Annals of Behavioral Medicine*, *30*, 65-73.
- Flay, B.R., & Collins, L.M. (2005). Historical review of school-based randomized trials for evaluating problem behavior prevention programs. *Annals of the American Academy of Political and Social Science*, *599*, 115-146.
- Collins, L.M. (2006). Analysis of longitudinal data: The integration of theoretical model, temporal design and statistical model. *Annual Review of Psychology*, *57*, 505-528.
- Dierker, L., Lloyd-Richardson, E., Stolar, M., Flay, B., Tiffany, S., Collins, L., Bailey, S., Nichter, M., Nichter, M., Clayton, R., The Tobacco Etiology Research Network (TERN). (2006). The proximal association between smoking and alcohol use among first year college students. *Drug and Alcohol Dependence*, *81*, 1-9.
- Lanza, S.T., & Collins, L.M. (2006). A mixture model of discontinuous development in heavy drinking from ages 8 to 30: The role of college enrollment. *Journal of Studies on Alcohol*, *67*, 552-561.
- Auerbach, K.J. & Collins, L.M. (2006). A multidimensional developmental model of alcohol use during emerging adulthood. *Journal of Studies on Alcohol*, *67*, 917-925.
- Zafra-Cabeza, A., Rivera, D.E., Collins, L.M., Ridao, M.A., & Camacho, E.F. (2006). A risk-based model predictive control approach to adaptive interventions in behavioral health. In *Proceedings of the 45th IEEE Conference on Decision and Control*, 673-678.
- Murphy, S.A., Oslin, D.W., Rush, A.J., Zhu, J., & MCATS. (2007). Methodological challenges in constructing effective treatment sequences for chronic psychiatric disorders. *Neuropsychopharmacology*, *32*, 257-262.
- Rivera, D.E., Pew, M.D., & Collins, L.M. (2007). Using engineering control principles to inform the design of adaptive interventions. *Drug and Alcohol Dependence*, *88*, S31-S40.
- Dierker, L.C., Donny, E., Tiffany, S., Colby, S.M., Perrine, N., Clayton, R.R., Tobacco Etiology Research Network (TERN). (2007). The association between cigarette smoking and DSM-IV nicotine dependence among first year college students. *Drug and Alcohol Dependence*, *86*, 106-114.
- Collins, L.M., Murphy, S.A., & Strecher, V. (2007). The Multiphase Optimization Strategy (MOST) and the Sequential Multiple Assignment Randomized Trial (SMART): New methods for more potent e-health interventions. *American Journal of Preventive Medicine*, *32*, S112-S118.
- Dierker, L. C., Stolar, M., Richardson, E., Tiffany, S., Flay, B., Collins, L., Nichter, M., Nichter, M., Bailey, S., Clayton, R. and TERN. (In press). Tobacco, alcohol and marijuana use among first year U.S. college students: A time series analysis. *Substance Use and Misuse*.
- Lanza, S.T., & Collins, L.M., Lemmon, D., & Schafer, J. L. (In press). PROC LCA: A SAS procedure for latent class analysis. *Structural Equation Modeling*.
- Maldonado-Molina, M.M., Collins, L.M., Lanza, S.T., Prado, G., Ramirez, R., & Canino, G. (In press). Patterns of substance use onset among Hispanics in Puerto Rico and the United States. *Addictive Behaviors*.

Patrick, M., Collins, L.M., Smith, E.A., Caldwell, L., Flisher, A., & Wegner, L. (In press). A prospective longitudinal model of substance use onset among South African adolescents. *Substance Use and Misuse*.

OTHER PUBLICATIONS

Collins, L.M. (1991). Part of a healthy trend [Review of *Sequential analysis: A guide for behavioral researchers*]. *Merrill-Palmer Quarterly*, 8, 641-643.

Collins, L.M., & Graham, J.W. (1991). Comment on "A source of bias in longitudinal investigations of change: A problem posed to attenders at the 'Best Methods for the Analysis of Change' conference." In L.M. Collins and J.L. Horn (Eds.), *Best methods for the analysis of change: Recent advances, unanswered questions, future directions*. Washington, D.C.: American Psychological Association.

Collins, L.M. (1993). [Review of *Objective Measurement: Theory into practice*]. *Applied Psychological Measurement*, 17, 196-200.

Collins, L.M., Graham, J.W., Pan, J., Wugalter, S.E., & Hansen, W.B. (1993). Crossvalidation of latent class models and of group differences. In R. Steyer, K.F. Wender, & K.F. Widaman (Eds.), *Psychometric methodology: Proceedings of the seventh European meeting of the Psychometric Society*. Stuttgart, Germany: Gustav Fischer Verlag.

Collins, L.M. (1994). Comment on "How many causes are there of age-related decrements in cognitive functioning?" *Developmental Review*, 14, 438-443.

Collins, L.M., Graham, J.W., Rousculp, S.S., & Hansen, W.B. (January, 1995). New directions in models of early substance use onset. *The Score*, 18, 4-5.

Collins, L.M. (1996). [Review of *The Analysis of Change*]. *Applied Psychological Measurement*, 20, 299-302.

Collins, L.M. (1996). Is reliability obsolete? A commentary on Are simple gain scores obsolete? *Applied Psychological Measurement*, 20, 289-294.

Collins, L.M., Flaherty, B.P., & Colby, S.M. (2002). Measurement and design issues in tobacco and drug use research (Editorial). *Drug and Alcohol Dependence*, 68, S1-S2.

Murphy, S.A., Collins, L.M., & Rush, A.J. (2007). (Editorial). Customizing treatment to the patient: Adaptive treatment strategies. *Drug and Alcohol Dependence*, 88, S1-S3. Elsevier.

SUBMITTED OR IN PREPARATION

Lanza, S.T., Collins, L.M., Schafer, J.L., & Lemmon, D. A new SAS procedure for latent transition analysis: Transitions in dating and sexual behavior. Submitted to *Developmental Psychology*.

Collins, L.M., Dziak, J.R., & Li, R. Choosing among complete factorial, fractional factorial, and other designs to maximize scientific gain in relation to resources expended. Submitted to *Psychological Methods*.

Collins, L.M., Chakraborty, B., Murphy, S.A., Nair, V., & Strecher, V. Increasing the efficiency of intervention research by using fractional factorial designs. Target for submission: *Clinical Trials*.

Graham, J.W. & Collins, L.M. Using modern missing data methods with auxiliary variables to mitigate the effects of attrition in longitudinal studies. Target for submission: *Prevention Science*.

SOFTWARE

- Collins, L.M., & Dent, C.W. (1986). *LGSINDEX User's Guide*. Los Angeles: University of Southern California.
- Collins, L.M., Dent, C.W., & Cliff, N. (1986). *LGSCCLUS User's Guide*. Los Angeles: University of Southern California.
- Collins, L.M., Wugalter, S.E., & Rousculp, S.S. (1992). *Latent Transition Analysis (LTA) Program Manual (Version 1.0)*. Los Angeles: University of Southern California.
- Collins, L.M., Flaherty, B.P., Hyatt, S.L., & Schafer, J.L. (1999). *WinLTA Users' Guide*. University Park: The Methodology Center, Penn State.
- Collins, L.M., Schafer, J.L., Lanza, S.L., & Flaherty, B.P. (2002). *WinLTA User's Guide: Version 3.0*. University Park: The Methodology Center, Penn State.
- Lanza, S. T., Lemmon, D., Schafer, J. L., & Collins, L. M. (2007). *PROC LCA & PROC LTA User's Guide Version 1.1.3 beta*. University Park, PA: The Pennsylvania State University, The Methodology Center.

SELECTED CONFERENCE PRESENTATIONS

- Collins, L.M., Dent, C.W., & Cliff, N. (June, 1986). LGSCCLUS: An exploratory procedure for finding longitudinal Guttman scales. Presented at the annual meetings of the Psychometric Society, Toronto, Ontario, Canada.
- Collins, L.M., Graham, J.W., & McGuigan, K.A. (June, 1987). An adjustment to the ANOVA when subjects must be assigned to treatment in intact groups. Presented at the meetings of the Psychometric Society, Montreal, Quebec, Canada.
- Collins, L.M. (October, 1987). Dynamic constructs and their measurement. Presented at the meetings of the Society for Multivariate Experimental Psychology, Vancouver, British Columbia, Canada.
- Collins, L.M. (June, 1988). Latent path theory. Presented at the meetings of the Psychometric Society, Los Angeles, California.
- Collins, L.M. (August, 1988). Latent path theory: Measuring qualitative dynamic constructs. Presented at World Congress of Psychology, Sydney, Australia.
- Collins, L.M., & McGuigan, K.A. (November, 1988). Assessing dependency among observations. Presented at the meetings of the Society for Multivariate Experimental Psychology, Charlottesville, Virginia.
- Collins, L.M., Chung, N.-K., & Wugalter, S.E. (July, 1989). Recent developments in latent Markov models. Presented at the annual meetings of the Psychometric Society, Los Angeles, CA.
- Collins, L.M. (October, 1989). Measurement in the context of longitudinal research. Presented at Best Methods for the Analysis of Change, Los Angeles, California.
- Collins, L.M., Chung, N.K., & Wugalter, S.E. (July, 1990). Two applications of latent path theory. Presented at the annual meetings of the Psychometric Society, Princeton, N.J.
- Collins, L.M., Graham, J.W., Pan, J., Wugalter, S.E., & Hansen, W.B. (July, 1991). Crossvalidation of latent class models and of group differences. Presented at the European Meetings of the Psychometric Society, Trier, Germany.

- Collins, L.M. (October, 1991). A general axiomatic measurement model for longitudinal developmental data. Presented at the Annual Meeting of the Society for Multivariate Experimental Psychology, Albuquerque, New Mexico; a revised version presented at the Annual Meeting of the American Psychological Society, June 1992.
- Collins, L.M. (August, 1993). Measurement in longitudinal research: Trying to hit a moving target. Presented at the Annual Convention of the American Psychological Association, Toronto, Ontario, Canada.
- Collins, L.M., Fidler, P.L., & Wugalter, S.E. (October, 1993). Parameter estimation in latent class models with sparse data. Presented at the Annual Meetings of the Society for Multivariate Experimental Psychology, San Pedro, California.
- Collins, L.M. (June, 1996). Methodological considerations in longitudinal research. Presented at the Annual Meetings of the Society for Prevention Research, San Juan, Puerto Rico.
- Collins, L.M. (May, 1997). New developments in the LTA software. Presented at the Annual Meetings of the Society for Prevention Research, Baltimore, MD.
- Collins, L.M. (October, 1997). A demonstration of WinLTA. Presented at the Annual Meetings of the Society for Multivariate Experimental Psychology, Scottsdale, AZ.
- Collins, L.M., Hyatt, S.L., Flaherty, B.F., Schafer, J.L., & Hames, K. (June, 1999). A demonstration of WinLTA 2.0. Presented at the Annual Meetings of the Society for Prevention Research, New Orleans, LA.
- Collins, L.M., Schafer, J.L., Hyatt, S.L., & Flaherty, B.P. (July, 1999). Using data augmentation in latent class models for longitudinal data: Estimation, standard errors and hypothesis tests involving combinations of parameters. Presented at the European Meetings of the Psychometric Society, Lueneberg, Germany.
- Collins, L.M., Schafer, J.L., Graham, J.W., & Kam, C.-M. (July, 2000). A comparison of FIML and MI approaches to missing data: Why bother with multiple imputation? Presented at the biennial meetings of the Society for Multivariate Applications in the Behavioral Sciences, London, England.
- Collins, L.M., Schafer, J.L., Hyatt, S.L., & Flaherty, B.P. (July, 2000). A demonstration of WinLTA. Presented at the biennial meetings of the Society for Multivariate Applications in the Behavioral Sciences, London, England.
- Collins, L.M. (October, 2002). Two-sequence Latent Transition Analysis. Presented at the Society for Multivariate Experimental Psychology meetings, Charlottesville, VA.
- Collins, L.M., Murphy, S.A., & Nair, V. (June, 2003). Sequential experimentation: Some ideas from engineering useful in prevention science. Presented at the Annual Meetings of the Society for Prevention Research, Washington, DC.
- Collins, L.M., Murphy, S.A., & Nair, V.N. (February, 2004). Using sequential experimentation to develop multi-component interventions. Presented at the Prevention Research Center Colloquium Series, Penn State.
- Collins, L.M. (March, 2006). The Multiphase Optimization Strategy for building, optimizing, and evaluating behavioral interventions. Presented at the Joint Meeting on Adolescent Treatment Effectiveness, Baltimore, MD.
- Collins, L.M. (May, 2006). Fractional factorial designs for intervention research. Presented at the annual meeting of the Society for Prevention Research, San Antonio, TX.

Collins, L.M. (December, 2006). An empirical framework for increasing the effectiveness of evidence-based behavioral interventions. Presented at the Asia Pacific Evidence-Based Medicine conference, Hong Kong.

INVITED PRESENTATIONS

Collins, L.M. (April, 1985). Recent developments in longitudinal measurement. Presented at the Department of Psychology, University of Rhode Island, Kingston, Rhode Island.

Collins, L.M. (May, 1986). Agreement between retrospective and concurrent reports. Presented at a conference on cognitive models and survey methods sponsored by the Social Science Research Council, at the Center for Advanced Study in the Behavioral Sciences, Stanford University, Palo Alto, California.

Collins, L.M. (June, 1990). Measurement of individual growth: Applications to assessment. Presented at the Assessment Forum of the American Association for Higher Education, Washington, D.C.

Collins, L.M. (December, 1990). Measurement issues in longitudinal research. Presented at the Department of Psychology, California State University, Fullerton.

Collins, L.M. (July, 1991). Measurement issues in longitudinal research. Presented at the Center for Health Studies, Group Health Cooperative of Puget Sound, Seattle, WA.

Collins, L.M. (March, 1992). Measurement issues in longitudinal research. Presented at the University of Southern California School of Social Work.

Collins, L.M. (June, 1991). Analyzing and understanding patterns of change: Where are we headed? Presented at the Assessment Forum of the American Association for Higher Education, San Francisco, CA.

Collins, L.M. (May, 1992). Latent transition analysis: Models for categorical longitudinal data. Presented at the Department of Statistics, University of California, Riverside.

Collins, L.M. (May, 1992). Latent transition analysis: Models for categorical longitudinal data. Presented at the Department of Psychology, University of Rhode Island, Kingston, Rhode Island.

Collins, L.M. (September, 1992). Measurement and analysis of dynamic variables: Latent transition analysis. Presented at the National Institute on Drug Abuse (NIDA) Technical Review: Advances in Data Analysis for Prevention Intervention Research, Bethesda, MD.

Collins, L.M. (September, 1992). Some design, measurement, and analysis pitfalls in drug abuse prevention research and how to avoid them: Let your model be your guide. Presented at the National Institute on Drug Abuse (NIDA) Technical Review: Scientific Methods for Prevention Intervention Research.

Collins, L.M. (October, 1992). Cattell Award Address: Goodness-of-fit for sparse latent class models: problems and solutions. Presented at the Annual Meetings of the Society for Multivariate Experimental Psychology, Cape Cod, MA.

Collins, L.M. (March, 1993). Introduction to latent class and latent transition models. Presented at the Department of Psychology, Arizona State University, Tempe, AZ.

Collins, L.M., & Johnston, M.V. (March, 1993). Measurement and analysis of change in psychiatry research. Presented at the annual meetings of the Association of Academic Psychiatrists, Albuquerque, NM.

- Collins, L.M. (April, 1993). Measurement and analysis of dynamic latent variables. Presented at the Department of Human Development and Family Studies, The Pennsylvania State University, State College, PA.
- Collins, L.M., Fidler, P.L., & Wugalter, S.E. (May, 1993). Estimation in latent class and latent transition models: Conceptual and technical issues. Presented at the Conference on Categorical Variables in Developmental Research, The Pennsylvania State University, State College, PA.
- Collins, L.M. (October, 1993). Measurement and analysis of dynamic latent variables in gerontology research. Presented at the School of Gerontology, University of Southern California, Los Angeles, CA.
- Collins, L.M., Graham, J.W., Rousculp, S.S., & Hansen, W.B. (February, 1994). Does caffeine play a role in early substance use onset? An illustration of latent transition analysis. Presented at the NIAAA Working Group on Quantitative Methods for Alcohol Abuse Prevention, Washington, D.C.
- Collins, L.M. (May, 1994). Methodology and prevention research: A symbiotic relationship. Presented at the NIDA Workshop for New Investigators, New York, NY.
- Collins, L.M. (June, 1994). Methodological issues in prevention research. Presented at the Annual Meetings of the Society for Prevention Research, Palm Beach, FL.
- Collins, L.M. (August, 1994). Longitudinal research: Where we've been and where we're headed. Presented at the Annual Convention of the American Psychological Association, Los Angeles, CA.
- Collins, L.M., Graham, J.W., Rousculp, S.S., & Hansen, W.B. (November, 1994). Caffeine as a marker for early substance use onset: An illustration of latent transition analysis. Presented at the Department of Mental Hygiene, Johns Hopkins University, Baltimore, MD.
- Collins, L.M., Graham, J.W., Rousculp, S.S., & Hansen, W.B. (December, 1994). Caffeine as a marker for early substance use onset: An illustration of latent transition analysis. Presented at the Department of Statistics, Pennsylvania State University, University Park, PA.
- Collins, L.M., & Tracy, A.J. (July, 1995). Identifiability and stability of complex latent transition models involving multiple occasions of measurement and second-order processes. Presented at the European Meetings of the Psychometric Society, Leiden, Holland.
- Collins, L.M., & Shanahan, M.J. (January, 1996). Methodological issues in family-based prevention research. Presented at the National Institute on Drug Abuse Meetings on Family-Based Prevention, Gaithersburg, MD.
- Collins, L.M. (May, 1996). Latent transition analysis and its applications in developmental research. Presented at the University of Kansas, Lawrence, KS.
- Collins, L.M. (May, 1996). Building program strength and accountability through research (expert panelist). Presented at Forging New Prevention Partnerships for Youth and Families, Metropolitan Washington Council of Governments, National Press Club, Washington, DC.
- Collins, L.M. (May, 1996). Latent transition analysis and its applications in prevention research. Presented at the Prevention Methodology Conference, Phoenix, AZ.
- Collins, L.M. (August, 1996). Latent transition analysis: Modeling stage-sequential development. Presented at the XIVth Biennial Meetings of the International Society for the Study of Behavioral Development, Quebec City, Canada.

- Collins, L.M., Graham, J.W., & Flaherty, B.R. (October, 1996). Using Latent Transition Analysis to assess mediation: Back to basics. Presented at the Annual Meetings of the Society of Multivariate Experimental Psychology, Evanston, IL. (Presidential address).
- Collins, L.M., Graham, J.W., & Flaherty, B.R. (November, 1996). Using Latent Transition Analysis to assess mediation: Back to basics. Presented at the Thurstone Laboratory of Quantitative Psychology, University of North Carolina, Chapel Hill.
- Collins, L.M., Graham, J.W., & Flaherty, B.R. (February, 1997). Using Latent Transition Analysis to assess mediation: Back to basics. Presented at the Department of Psychology, New York University, New York, NY.
- Collins, L.M., Graham, J.W., & Rousculp, S.S. (March, 1997). An introduction to Latent Transition Analysis. Presented at the Department of Biostatistics, Yale University, New Haven, CT.
- Collins, L.M., & Flaherty, B.P. (April, 1997). Using Latent Transition Analysis to analyze data from prevention trials. Presented at Design and Analysis of Prevention Trials for the Future, Johns Hopkins University School of Hygiene and Public Health, Baltimore, MD.
- Collins, L.M. (June, 1997). Effective measurement methods and data analytic techniques for assessing change over time. Prevention Research Working Group Lunch Time Conversation Series, National Institute on Drug Abuse, Rockville, MD.
- Collins, L.M., Hyatt, S.L., & Graham, J.W. (June, 1997). LTA as a way of testing models of stage-sequential development in longitudinal data. Presented at Practical Approaches to Longitudinal and Multi-Group Data, Max Plank Institute for Human Development, Berlin, Germany.
- Collins, L.M., Hyatt, S.L., & Graham, J.W. (July, 1997). LTA as a way of testing models of stage-sequential development in longitudinal data. Presented at the University of Jena, Jena, Germany.
- Collins, L.M., Hyatt, S.L., & Graham, J.W. (July, 1997). LTA as a way of testing models of stage-sequential development in longitudinal data. Presented at the Conference on Developmental Methods, University of Nuremberg, Nuremberg, Germany.
- Collins, L.M., Graham, J.W., & Flaherty, B.R. (September, 1997). Mediation as intra-individual change. Presented at the 6th European Conference on Assessment, Lisbon, Portugal.
- Collins, L.M. (October, 1997). Research-based prevention programming. Presented at Understanding Drug Abuse and Addiction: A Community Town Meeting. Philadelphia, PA.
- Collins, L.M. (December, 1997). Using Latent Transition Analysis to estimate and test stage-sequential models of development. Presented at the University of Wisconsin, Madison, WI.
- Collins, L.M., Hyatt, S.L., & Graham, J.W. (February, 1998). Perceived parental permissiveness as a risk factor for substance use onset: An example of Latent Transition Analysis. Presented at the Institute for Social Research, University of Michigan, Ann Arbor, MI.
- Collins, L.M., Hyatt, S.L., & Graham, J.W. (February, 1998). Perceived parental permissiveness as a risk factor for substance use onset: An example of Latent Transition Analysis. Presented at the Population Research Institute, Pennsylvania State University.
- Collins, L.M. (February, 1998). A practical introduction to using Latent Transition Analysis in developmental research. Presented at the Biennial Meetings of the Society for Research on Adolescence, San Diego, CA.
- Collins, L.M. (April, 1998). Latent transition analysis. Presented at the Centers for Disease Control, Atlanta, GA.

- Collins, L.M. (May, 1998). An introduction to latent transition analysis with WinLTA (1 and ½ day workshop). Presented at Summer Institute on Longitudinal Methods, State College, PA.
- Collins, L.M. (May, 1998). Using Latent Transition Analysis in developmental work. Presented at the Developmental Science Institute, Chapel Hill, NC.
- Collins, L.M. (June, 1998). Using latent transition analysis to examine the gateway hypothesis. Presented at Stages and Pathways of Involvement in Drug Use: Examining the Gateway Hypothesis, Los Angeles, CA.
- Collins, L.M. (October, 1998). Measurement reliability for static and dynamic categorical latent variables. Presented at New Methods for the Analysis of Change, State College, PA.
- Collins, L.M. (July, 1999). Testing latent class and latent transition models with WinLTA (One-day workshop). Presented at the Psychology Department at Ege University, Izmir, Turkey.
- Collins, L.M., Hyatt, S.L., & Flaherty, B.P. (October, 1999). Latent Transition Analysis: A method for estimating and testing stage-sequential models in longitudinal contingency tables. Presented at Measuring Change in Complex Social Systems: Best Practices and State-of-the-Art Developments for Measuring Change in Organizations, College Park, MD.
- Collins, L.M. (March, 2000). An introduction to latent class and latent transition analysis with WinLTA (1 day workshop). Presented at the University of Houston, Houston, TX.
- Collins, L.M. (April, 2000). A new look at mediation. Presented at the Organizational Psychology Colloquium Series, Department of Psychology, Penn State.
- Collins, L.M. (November, 2000). Important methodological issues in drug abuse research. Presented at the Addictions Research Center, University of Pennsylvania.
- Collins, L.M., Schafer, J.L., Lanza, S., & Flaherty, B.P. (January, 2001). Latent transition analysis: Some new results using data augmentation. Presented at the Quantitative Methods and Measurement Colloquium Series, University of California, Santa Barbara.
- Collins, L.M. (January, 2001). Important methodological issues in biomedical research. Presented at the Psychology Department, University of Miami.
- Collins, L.M., Schafer, J.L., Lanza, S., & Flaherty, B.P. (April, 2001). Latent transition analysis: Some new results using data augmentation. Presented at the Social Work Colloquium Series, University of Washington.
- Collins, L.M. (April, 2001). Important methodological issues in biomedical research. Presented at the School of Social Work Trainees' Seminar, University of Washington.
- Collins, L.M. (August, 2001). Methodological considerations in longitudinal research. Presented at the Interamerican Congress of Psychology, Santiago, Chile. (Keynote address)
- Collins, L.M. (August, 2001). Latent Transition Analysis. Presented at the Department of Psychology, Pontificia Universidad Católica de Chile.
- Collins, L.M. (August, 2001). Latent Transition Analysis: Some new results using data augmentation. Presented at the American Psychological Association Convention, San Francisco, CA.
- Collins, L.M., Tang, Z., & Flaherty, B.P. (August, 2002). Two-sequence Latent Transition Models. Presented at the Joint Statistical Meetings, New York, NY.

- Collins, L.M. (October, 2002). Latent Transition Analysis: Some new results using data augmentation. Presented at the RAND Corporation, Santa Monica, CA.
- Collins, L.M. (June 2003). Latent Transition Analysis for analyzing stage development. Presented at the Annual Developmental Sciences Institute, Uppsala, Sweden.
- Flay, B.R., & Collins, L.M. (December, 2003). School-based risk reduction trials: Some methodological considerations. Presented at the Campbell Place Based Briefing Conference, Rockefeller Foundation, New York, NY.
- Collins, L.M. (June, 2004). The Multiphase Optimization Strategy (MOST). Presented at the University of Puerto Rico Medical School, San Juan, PR.
- Collins, L.M., Flaherty, B.P., & Tang, Z. (July, 2004). Associative latent transition analysis (ALTA). Presented at the biennial meetings of the Society of Multivariate Analysis in the Behavioral Sciences, Jena, Germany.
- Collins, L.M. (November, 2004). The Multiphase Optimization Strategy (MOST) for drug abuse prevention and treatment research. Presented at National Development and Research Institute, New York, NY.
- Collins, L.M. (December, 2004). Methodological considerations in longitudinal behavioral research. Presented at the EXPORT conference, University of Puerto Rico, San Juan, PR.
- Collins, L.M. (February, 2005). The Multiphase Optimization Strategy (MOST). Presented at Rutgers University, New Brunswick, NJ.
- Collins, L.M. (February, 2005). The Multiphase Optimization Strategy (MOST) for behavioral intervention development. Presented at the University of Pennsylvania, Philadelphia, PA.
- Collins, L.M. (April, 2005). Introduction to Latent Transition Analysis (LTA). Presented at Case Western Reserve University, Cleveland, OH.
- Collins, L.M. (April, 2005). The Multiphase Optimization Strategy (MOST) for development and evaluation of behavioral interventions. Presented at the University of Michigan, Ann Arbor, MI.
- Collins, L.M. (June, 2005). eIntervention Science: Looking inside the black box with the Multiphase Optimization Strategy (MOST). Keynote address at the Critical Issues in eHealth Conference, Bethesda, MD.
- Collins, L.M. (June, 2005). Developing and evaluating behavioral interventions using MOST. Presented at the Annual Meetings of the College on Problems of Drug Dependence, Orlando, FL.
- Collins, L.M. (August, 2005). Introduction to methodological research at Penn State. Presented at the University of the Western Cape, Cape Town, South Africa.
- Collins, L.M. (October, 2005). The Multiphase Optimization Strategy (MOST): An extension of randomized clinical trials. Presented at the Statistics Department Colloquium Series, Penn State, University Park, PA.
- Collins, L.M. (November, 2005). Methodological research in an interdisciplinary context. Presented at the University of South Carolina, Columbia, SC.
- Collins, L.M. (December, 2005). The Multiphase Optimization Strategy (MOST) for optimizing and evaluating behavioral interventions. Presented at the School of Public Health, University of North Carolina, Chapel Hill, NC.

- Collins, L.M. & Lanza, S.T. (June, 2006). Introduction to latent class and latent transition analysis. Presented at the International Developmental Sciences Institute, Penn State, University Park, PA.
- Collins, L.M. (June, 2006). The Multiphase Optimization Strategy for building and evaluating adaptive interventions. Presented at the New Clinical Drug Evaluation Unit (NCDEU) Meeting, Boca Raton, FL.
- Collins, L.M. (August, 2006). Overview of methodological challenges in prevention and treatment research. Presented at the Office of Behavioral and Social Science Research Methodology and Technology Summit, Bethesda, MD.
- Collins, L.M. (August, 2006). Analysis of longitudinal data: The integration of theoretical model, temporal design, and statistical model. Presented at the CALDAR Summer Institute, Los Angeles, CA.
- Collins, L.M. (September, 2006). The Multiphase Optimization Strategy for building and evaluating behavioral interventions. Presented at the Center for Injury Research and Prevention, Children's Hospital, University of Pennsylvania, Philadelphia, PA.
- Collins, L.M. (October, 2006). A multi-phase approach for building, optimizing, and evaluating behavioral interventions. Presented at the Department of Public Health, Oregon State University, Corvallis, OR.
- Collins, L.M. (October, 2006). The Multiphase Optimization Strategy for empirical development of behavioral interventions. Presented at the Department of Biobehavioral Health, Penn State University, University Park, PA.
- Collins, L.M. (December, 2006). The Multiphase Optimization Strategy for empirical intervention development. Presented at the Department of Psychology, University of Hong Kong.
- Collins, L.M., Lanza, S.T., & Bray, B.C. (February, 2007). Week-long workshop on latent class and latent transition analysis. Presented at the University of Cologne, Cologne, Germany.
- Collins, L.M. (March, 2007). The Multiphase Optimization Strategy (MOST) for building and evaluating behavioral interventions. Presented at the Clinical Epidemiology and Biostatistics Unit, University of Melbourne, Melbourne, Australia.
- Collins, L.M. (March, 2007). New strategies for building and evaluating behavioral interventions. Presented at Deakin University, Melbourne, Australia.
- Collins, L.M. (March, 2007). New strategies for building more potent behavioral interventions. Presented at the Annual Meeting of the American Academy of Health Behavior, Savannah, Georgia.
- Collins, L.M. (April, 2007). New approaches for building and evaluating behavioral interventions. Presented at the Center for Excellence in Cancer Communication Research, University of Pennsylvania, Philadelphia, PA.
- Collins, L.M. (April, 2007). Introduction to the Multiphase Optimization Strategy (MOST): An empirical framework for increasing the effects of evidence-based behavioral medicine. Presented at the Penn State Diabetes Center Research Retreat, Penn State, University Park, PA.
- Collins, L.M. (August, 2007). The obesity prevention/treatment field's stake in innovative methodological research. Presented at the Working Group on Future Research Directions in Childhood Obesity Prevention and Treatment, Bethesda, MD.