

Curriculum Vitae
Patrick J. Curran, Ph.D.

L.L. Thurstone Psychometric Laboratory
Department of Psychology
University of North Carolina at Chapel Hill
Chapel Hill, NC, 27599-3270

office: (919) 962-5235
fax: (919) 962-2537
email: curran@unc.edu
web: www.unc.edu/~curran

Education History

- 1991– 1994:** Ph.D., Clinical Psychology. Emphasis, Quantitative Methodology. Arizona State University, Tempe.
1988– 1990: M.A., Clinical Psychology, Arizona State University, Tempe.
1983– 1987: B.A., Psychology, Magna Cum Laude, University of Colorado, Boulder.

Employment History

- 2006–present:** Professor, Department of Psychology, University of North Carolina at Chapel Hill.
2002–2006: Associate Professor, Department of Psychology, University of North Carolina at Chapel Hill.
1999– 2002: Assistant Professor, Department of Psychology, University of North Carolina at Chapel Hill.
1996– 1999: Assistant Professor, Department of Psychology: Social & Health Sciences, Duke University.
1996–present: Adjunct Faculty, Center for Developmental Science, University of North Carolina at Chapel Hill.
1994– 1996: Postdoctoral Fellow, Applied Statistics, University of California, Los Angeles

Awards, Honors & Professional Activities

- 2007-present Fellow, Association for Psychological Science
2007 Chair, NIH Special Emphasis Panel *Behavioral Genetics and Epidemiology*
2007-present Editorial Board, *Journal of Educational and Behavioral Statistics*
2006 Co-Recipient of the Tanaka Award for the most outstanding paper published in *Multivariate Behavioral Research* in 2005, presented by the Society for Multivariate Experimental Psychology.
2006 Recipient of *James McKeen Cattell Sabbatical Fellowship Award*
2006 Recipient of University of North Carolina *Reynolds Foundation Sabbatical Award*
2005-present Consulting Editor, *Multivariate Behavioral Research*
2004-2007 Associate Editor, *Psychological Methods*
1996-2004; 2007-present Editorial Board, *Psychological Methods*
2003-present Editorial Advisory Board, *Multivariate Behavioral Research*
2003-present Editorial Board, *Structural Equation Modeling: An Interdisciplinary Journal*
2002-2007 Editorial Board, *Multivariate Applications Book Series*, Erlbaum Publishing
2002-2004 Editorial Board, *Psychological Assessment*
1998-2003 Editorial Board, *Developmental Psychology*

- 1996-1998 Editorial Board, *Health Psychology*
- 2001 *Raymond B. Cattell Early Career Award* for outstanding contributions to multivariate experimental psychology: Awarded by the Society for Multivariate Experimental Psychology
- 2003-2006 Elected Member, APA Division 5 Executive Committee
- 2002-2003 Chair, APA Division 5 (Evaluation, Measurement, & Statistics) Program Committee
- 2000-present Nominated Member, Society of Multivariate Experimental Psychology

Ad hoc journal and book review: American Psychological Association Book Publications, The American Psychologist, Applied Developmental Science, Applied Psychological Measurement, Behavior Therapy, British Journal of Mathematical and Statistical Psychology, Child Development, Clinical Psychology Review, Development and Psychopathology, Developmental Psychology, Educational Evaluation and Policy Analysis, Journal of Abnormal Psychology, Journal of Consulting and Clinical Psychology, Journal of Drug and Alcohol Dependence, Journal of Educational and Behavioral Statistics, Journal of Personality, Journal of Research on Adolescence, Journal of Social and Personal Relationships, Journal of Studies on Alcohol, Lawrence Erlbaum Book Publications, Multivariate Behavioral Research, Personality and Social Psychology Bulletin, Prevention Science, Psychometrika, Sage Book Publications, Social Development, Structural Equation Modeling.

Ad hoc grant review: Biostatistics Methods and Research Development (2003; 2004); NIDA P30 review group (2000); NIDA P50 Center site visit review team (1999); NICHD Human Development Section 1 (1998); NSF Section on Method, Measure and Statistics (1997); Spencer Grant Foundation (1997).

Ad hoc conference review: American Psychological Association, American Psychological Society, Society for Research on Adolescence, Society for Research on Child Development.

1999: Featured early career scientist in 1999 *Early Career Preventionist Networks* Newsletter

1993-1994: Herman E. DeMund Memorial Scholarship, Arizona State University.

1993: Graduate Student Research Award, Society for Research in Child Development.

1992: Graduate Student Research Award, Southwestern Society for Research in Human Development.

1991: Chair, Social Sciences Graduate Research Council, Arizona State University.

1990-present: Member, American Psychological Association Division 5 Methods, Measures & Statistics, Society for Research in Child Development, and Society for Research in Adolescence.

Publications

Bollen, K.A., Kirby, J.B., **Curran, P.J.**, Paxton, P.M., & Chen, F. (in press). Latent variable models under misspecification: A comparison of Two Stage Least Squares (2SLS) to Full Information Maximum Likelihood estimators (FIML). *Sociological Methods and Research*.

Chassin, L., **Curran, P.J.**, Wirth, R.J., Presson, C.C., & Sherman, S.J. (in press). Developmental trajectories of cigarette smoking from adolescence to adulthood: An overview and relations to indicators of tobacco dependence. To appear in Monograph 22 of the NCI Tobacco Control Monograph Series.

Chassin, L., Presson, C., Seo, D.-C., Sherman, S.J., Macy, J., Wirth, R.J., and **Curran, P.J.** (in press). Multiple trajectories of cigarette smoking and the intergenerational transmission of smoking: A multi-generational, longitudinal study of a Midwestern community sample. *Health Psychology*.

- Chen, F., **Curran, P.J.**, Bollen, K.A., Kirby, J., and Paxton, P. (in press). An Empirical Evaluation of the Use of Fixed Cutoff Points in RMSEA Test Statistic in Structural Equation Models. *Sociological Methods and Research*.
- Curran, P.J.**, Hussong, A.M., Cai, L., Huang, W., Chassin, L., Sher, K.J., & Zucker, R.A. (in press). Pooling data from multiple longitudinal studies: The role of item response theory in integrative data analysis. *Developmental Psychology*.
- Flora, D.B., **Curran, P.J.**, Hussong, A.M., & Edwards, M.C. (in press). Incorporating measurement non-equivalence in a cross-study latent growth curve analysis. *Structural Equation Modeling*.
- Hussong, A.M., Cai, L., **Curran, P.J.**, Flora, D.B., Chassin, L., & Zucker, R.A. (in press). Disaggregating the distal, proximal, and time-varying effects of parent alcoholism on children's internalizing symptoms. *Journal of Abnormal Child Psychology*.
- Hussong, A.M., **Curran, P.J.**, Moffitt, T.E., & Caspi, A. (in press). Launches, snares and counterparts: Applying latent trajectory models to the study of resilience. In P. Cohen, R. Cudeck & R. Pruzek (Eds.), Turning points: Developmental stages, secular trends, and individual change: Theoretical considerations, research designs and alternative methods of analysis. New York: Erlbaum Associates.
- Hussong, A.M., Flora, D.B., **Curran, P.J.**, Chassin, L.A., Zucker, R.A. (in press). Defining risk heterogeneity for internalizing symptoms among children of alcoholic parents. *Development and Psychopathology*.
- Hussong, A.M., Wirth, R.J., Edwards, M.C., **Curran, P.J.**, Zucker, R.A., & Chassin, L.A. (in press). Externalizing symptoms among children of alcoholic parents: Entry points for an antisocial pathway to alcoholism. *Journal of Abnormal Psychology*.
- Curran, P.J.**, & Bauer, D.J. (2007). Building path diagrams for multilevel models. *Psychological Methods*, 12, 283-297.
- Curran, P.J.**, Edwards, M.C., Wirth, R.J., Hussong, A.M., & Chassin, L. (2007). The incorporation of categorical measurement models in the analysis of individual growth. In T. Little, J. Bovaird, & N. Card (Eds.), *Modeling Ecological and Contextual Effects in Longitudinal Studies of Human Development* (p.89-120). Mahwah, NJ: LEA.
- Bollen, K.A., & **Curran, P.J.** (2006). Latent Curve Models: A Structural Equation Approach. Wiley Series on Probability and Mathematical Statistics.
- Curran, P.J.**, Bauer, D.J., & Willoughby, M.T. (2006). Testing and probing interactions in hierarchical linear growth models. In C.S. Bergeman & S.M. Boker (Eds.), The Notre Dame Series on Quantitative Methodology, Volume 1: Methodological Issues in Aging Research (pp.99-129). Mahwah, NJ: Lawrence Erlbaum Associates.
- Preacher, K.J., **Curran, P.J.**, & Bauer, D.J. (2006). Computational tools for probing interactions in multiple linear regression, multilevel modeling, and latent curve analysis. *Journal of Educational and Behavioral Statistics*, 31, 437-448.
- Bauer, D.J., & **Curran, P.J.** (2005). Probing interactions in fixed and multilevel regression: Inferential and graphical techniques. Multivariate Behavioral Research, 40, 373-400.
- Bauer, D.J., & **Curran, P.J.** (2004). The integration of continuous and discrete latent variable models: Potential problems and promising opportunities. Psychological Methods, 9, 3-29.
- Biesanz, J.C., Deeb-Sossa, N., Aubrecht, A.M., Bollen, K.A., & **Curran, P.J.** (2004). The role of coding time in estimating and interpreting growth curve models. Psychological Methods, 9, 30-52.
- Curran, P.J.**, Bauer, D.J., & Willoughby, M.T. (2004). Testing and probing main effects and interactions in latent curve analysis. Psychological Methods, 9, 220-237.

- Curran, P.J.**, & Wirth, R.J. (2004). Inter-individual differences in intra-individual variation: Balancing internal and external validity. Measurement: Interdisciplinary Research and Perspectives, 2, 219-227.
- Flora, D.B., & **Curran, P.J.** (2004). An empirical evaluation of alternative methods of estimation for confirmatory factor analysis with ordinal data. Psychological Methods, 9, 466-491.
- Hipp, J., Bauer, D.J., **Curran, P. J.** & Bollen, K. A. (2004). Crimes of opportunity or crimes of emotion: Testing two explanations of seasonal change in crime. Social Forces, 82, 1333-1372.
- Hussong, A.M., **Curran, P.J.**, Moffitt, T.E., Caspi, A., & Carrig, M.M. (2004). Substance abuse hinders desistance in young adults' antisocial behavior. Development and Psychopathology, 16, 1029-1046.
- Bauer, D.J., & **Curran, P.J.** (2003-*a*). Distributional assumptions of growth mixture models: Implications for overextraction of latent trajectory classes. Psychological Methods, 8, 338-363.
- Bauer, D.J., & **Curran, P.J.** (2003-*b*). Overextraction of latent trajectory classes: Much ado about nothing? Psychological Methods, 8, 384-393.
- Bollen, K.A., & **Curran, P.J.** (2003). Autoregressive latent trajectory (ALT) models: A synthesis of two traditions. Sociological Methods and Research, 32, 336-383.
- Carrig, M., Wirth, R.J., & **Curran, P.J.** (2003). A SAS Macro for Estimating and Visualizing Individual Growth Curves. Structural Equation Modeling: An Interdisciplinary Journal, 11, 132-149.
- Curran, P.J.** (2003). Have multilevel models been structural equation models all along? Multivariate Behavioral Research, 38, 529-569.
- Curran, P.J.**, Bollen, K.A., Chen, F., Paxton, P., & Kirby, J. (2003). The finite sampling properties of the RMSEA: Point estimates and confidence intervals. Sociological Methods and Research, 32, 208-252.
- Curran, P.J.**, and Hussong, A.M. (2003). The use of latent trajectory models in psychopathology research. Journal of Abnormal Psychology, 112, 526-544.
- Curran, P.J.**, and Willoughby, M.J. (2003). Reconciling theoretical and statistical models of developmental processes. Development and Psychopathology, 15, 581-612.
- Curran, P.J.**, Bollen, K.A., Paxton, P., Kirby, J., & Chen, F. (2002). The noncentral chi-square distribution in misspecified structural equation models: Finite sample results from a Monte Carlo simulation. Multivariate Behavioral Research, 37, 1-36.
- Curran, P.J.**, & Hussong, A.M. (2002). Structural equation modeling of repeated measures data. In D. Moskowitz & S. Hershberger (Eds.), Modeling Intraindividual Variability with Repeated Measures Data: Methods and Applications, (pp. 59-86). New York: Erlbaum Associates.
- Kaplow, J.B., **Curran, P.J.**, Dodge, K., and the Conduct Problems Prevention Research Group (2002). Child, parent, and peer predictors of early-onset substance use: A multi-site longitudinal study. Journal of Abnormal Child Psychology, 30, 199-216.
- Rodebaugh, T.L., **Curran, P.J.**, & Chambless, D.L. (2002). Expectancy of panic in the maintenance of daily anxiety in panic disorder with agoraphobia: A longitudinal test of competing models. Behavior Therapy, 33, 315-336.
- Chen, F., Bollen, K.A., Paxton, P., **Curran, P.J.**, & Kirby, J. (2001). Improper solutions in structural equation models: Causes, consequences, and strategies. Sociological Methods and Research, 29, 468-508.
- Curran, P.J.**, & Bollen, K.A. (2001). The best of both worlds: Combining autoregressive and latent curve models. In Collins, L. M. & Sayer, A. G. (Eds.), New Methods for the Analysis of Change, (pp105-136). Washington, DC: American Psychological Association.

- Hussong, A.M., Hicks, R.E., Levy, S.A., & **Curran, P.J.** (2001). Specifying the relations between affect and heavy alcohol use among young adults. Journal of Abnormal Psychology, 110, 449-461.
- Kaplow, J.B., **Curran, P.J.**, & Costello, E.J. (2001). The prospective relation between dimensions of anxiety and the initiation of adolescent alcohol use. Journal of Clinical Child Psychology, 30, 316-326.
- Paxton, P., **Curran, P.J.**, Bollen, K.A., Kirby, J., & Chen, F. (2001). Monte Carlo experiments: Design and implementation. Structural Equation Modeling, 8, 287-312.
- Curran, P.J.** (2000-*a*). Factor Analysis. In A. Kazdin (Ed.), Encyclopedia of Psychology, (pp. 313-315). Washington, DC: American Psychological Association.
- Curran, P.J.** (2000-*b*). A latent curve framework for studying developmental trajectories of adolescent substance use. In J. Rose, L. Chassin, C. Presson, & J. Sherman (Eds.), Multivariate Applications in Substance Use Research, (pp. 1-42). Hillsdale, NJ: Erlbaum.
- Curran, P.J.** (2000-*c*). Latent growth curve modeling. [Review of the book *An Introduction to Latent Variable Growth Curve Modeling: Concepts, Issues, and Applications*]. Applied Psychological Measurement, 24, 181-183.
- Willoughby, M.T., **Curran, P.J.**, Costello, E.J. & Angold, A. (2000). Implications of early versus late onset of Attention Deficit Hyperactivity Disorder symptomatology. Journal of the American Academy of Child and Adolescent Psychiatry, 39, 1512-1519.
- Curran, P.J.**, & Muthén, B.O. (1999). The application of latent curve analysis to testing developmental theories in intervention research. American Journal of Community Psychology, 27, 567-595.
- Lengua, L. J., Sandler, I. N., West, S. G., Wolchik, S. A. & **Curran, P.J.** (1999). Emotionality and self-regulation, threat appraisal and coping in children of divorce. Development and Psychopathology, 11, 15-37.
- Curran, P.J.**, Muthén, B.O., & Harford, T.C. (1998). The influence of changes in marital status on developmental trajectories of alcohol use in young adults. Journal of Studies on Alcohol, 59, 647-658.
- Hussong, A. M., **Curran, P.J.**, & Chassin, L. (1998). Pathways of risk for children of alcoholics' accelerated heavy alcohol use. Journal of Abnormal Child Psychology, 26, 453-466.
- Chassin, L., **Curran, P.J.**, Hussong, A. M., & Colder, C. R. (1997). The relation of parent alcoholism to adolescent substance use: A longitudinal follow-up study. In Marlatt & VandenBos (Eds.), *Addictive behaviors: Readings on etiology, prevention, and treatment*. (pp. 509-533). Washington, DC: APA.
- Colder, C. R., Chassin, L., Stice, E. M., & Curran, P.J. (1997). Alcohol expectancies as potential mediators of parent alcoholism effects on the development of adolescent heavy drinking. Journal of Research on Adolescence, 7, 349-374.
- Curran, P.J.**, Stice, E. & Chassin, L. (1997). The relation between adolescent and peer alcohol use: A longitudinal random coefficients model. Journal of Consulting and Clinical Psychology, 65, 130-140.
- Mueser, K., **Curran, P.J.**, and McHugo, G. (1997). Factor structure of the Brief Psychiatric Rating Scale in schizophrenia. Psychological Assessment, 9, 196-204.
- Muthén, B.O., & **Curran, P.J.** (1997). General longitudinal modeling of individual differences in experimental designs: A latent variable framework for analysis and power estimation. Psychological Methods, 2, 371-402.
- Chassin, L., **Curran, P.J.**, Hussong, A.M., & Colder, C.R. (1996). The relation of parent alcoholism to adolescent substance use: A longitudinal follow-up study. Journal of Abnormal Psychology, 105, 70-80.

- Curran, P.J.**, & Chassin, L. (1996). A longitudinal study of parenting as a protective factor for children of alcoholics. Journal of Studies on Alcohol, 57, 305-313.
- Curran, P.J.**, Harford, T.C., & Muthén, B.O. (1996). The relation between heavy alcohol use and bar patronage: A latent growth model. Journal of Studies on Alcohol, 57, 410-418.
- Curran, P.J.**, West, S.G., & Finch, J. (1996). The robustness of test statistics to non-normality and specification error in confirmatory factor analysis. Psychological Methods, 1, 16-29.
- Sayers, S., **Curran, P.J.**, & Mueser, K. (1996). Factor structure and construct validity of the Scale for the Assessment of Negative Symptoms. Psychological Assessment, 8, 269-280.
- West, S.G., Finch, J.F., & **Curran, P.J.** (1995). Structural equation models with non-normal variables: Problems and remedies. In R. Hoyle (Ed.), Structural Equation Modeling: Concepts, Issues and Applications, (pp. 56-75). Newbury Park, CA: Sage.
- Curran, P.J.** (1994). The resilient child. [Review of the book *The Resilient Child: Preparing Today's Youth for Tomorrow's World*]. Clinical Psychology Review, 14, 609-610.
- Molina, B., Chassin, L., & **Curran, P.J.** (1994). A comparison of mechanisms underlying substance use for early adolescent children of alcoholics and controls. Journal of Studies on Alcohol, 55, 269-275.
- Chassin, L., Pillow, D.R., **Curran, P.J.**, Molina, B.G., & Barrera, M. (1993). The relation of parent alcoholism to adolescent substance use: A test of three mediating mechanisms. Journal of Abnormal Psychology, 102, 3-19.
- Timmons, L.A., Lanyon, R.I., Almer, E.R., & **Curran, P.J.** (1993). Development and validation of a sentence completion test indices of malingering during examination for disability. American Journal of Forensic Psychology, 11, 23-38.
- Lanyon, R.I., Almer, E., & **Curran, P.J.** (1993). Use of biographical and case history data in the assessment of malingering during examination for disability. Bulletin of the American Academy of Psychiatry and the Law, 21, 495-503.
- Chassin, L., Presson, C.C., Sherman, S.J., & **Curran, P.J.** (1992). Social psychological factors in adolescent substance use and abuse. In F.P. Medway and T.P. Cafferty (Eds.), Theories of School Psychology (pp. 397-424). New York: Erlbaum Associates.
- Thomas, D.R., & **Curran, P.J.** (1988). The role of response directedness in discriminative and conditional stimulus control. Bulletin of the Psychonomic Society, 26(4), 378-380.
- Thomas, D., **Curran, P.J.**, & Russell, R. (1988). Factors affecting conditional discrimination learning by pigeons: Physical and temporal characteristics of stimuli. Animal Learning & Behavior, 16, 468-476.

Selected Invited Colloquia

- Curran, P.J.** (2006). Growth Models with Time-Varying and Time-Invariant Covariates. Colloquium presented to the Center for the Analyses of Pathways from Childhood to Adulthood, University of Michigan, June 5, 2006.
- Curran, P.J.** (2005). Alternative methods for evaluating subgroup heterogeneity in developmental trajectories. Colloquium presented to the LIFE Academy, University of Michigan, October 17, 2005.
- Curran, P.J.** (2004). Recent advances in the analysis of individual growth curves. Colloquium presented to the Department of Psychology, Yale University, February 11, 2004.
- Curran, P.J.** (2004). Modeling individual and group differences in adolescent development. Colloquium presented to the School of Social Work Methodology Seminar, University of North Carolina at Chapel Hill, January 13, 2004.

- Curran, P.J.** (2003). The simultaneous analysis of multiple data sets: The challenge of meaning and metric. Colloquium presented to the Applied Statistics Working Group, Odum Institute, University of North Carolina at Chapel Hill.
- Curran, P.J.** (2003). Matching statistical and theoretical models of change. Colloquium presented to The College Board, New York City, August 22, 2003.
- Curran, P.J.** (2002). Testing and probing interactions in hierarchical linear growth models. Colloquium presented at the First Annual Notre Dame Series on Quantitative Methodology, May 30, 2002.
- Curran, P.J.** (2001). Modeling stability and change in developmental psychopathology. Colloquium presented to the Center for the Advancement of Research Methods and Analysis, Virginia Commonwealth University, November 16, 2001.
- Curran, P.J.** (2000). Modeling intergenerational transmission: The case of parental alcoholism. Colloquium presented to the Center for Developmental Science, University of North Carolina, November 27, 2000.
- Curran, P.J.** (2000). A proposed path diagramming framework for multilevel models. Colloquium presented to the Odum Institute's Applied Statistics Working Group, University of North Carolina, November 10, 2000.
- Curran, P.J.** (2000). The top 10 reasons graduate students hate to take statistics. Colloquium presented to the Clinical Program in the Department of Psychology at the University of North Carolina, September 1, 2000.
- Curran, P.J.** (2000). An empirical examination of the RMSEA for assessing fit in structural equation modeling: Sampling properties and statistical power. Colloquium presented to the Quantitative Program in the Department of Psychology at the University of North Carolina, January 21, 2000.
- Curran, P.J.** (1999). The conceptualization and testing of interactions in growth curve modeling. Colloquium presented to the Developmental and Quantitative Programs in the Department of Psychology at the University of North Carolina, November 12, 1999.
- Curran, P.J., & Bollen, K.A.** (1999). Latent variable models of individual change over time. Workshop presented at the Second International Institute on Developmental Science hosted by Stockholm University, Stockholm, Sweden, May 24-27, 1999.
- Curran, P.J.** (1998). Separating stable and unstable components of growth: Applications in developmental psychopathology. Colloquium presented to the Department of Psychology, Duke University, October 15, 1998.
- Curran, P.J.** (1998). Introduction to hierarchical linear models of individual growth: An applied example. Workshop presented at the First International Institute on Developmental Science hosted by the University of North Carolina, May 23-28, 1998.
- Curran, P.J.** (1998). A comprehensive statistical model for examining continuity and change. Colloquium presented to the Center for Developmental Science, University of North Carolina, March 2, 1998.
- Curran, P.J.** (1997). Matching statistical models to theoretical models in developmental psychology. Colloquium presented to the Developmental Area Seminar, Department of Psychology, University of North Carolina, September 5, 1997.
- Curran, P.J.** (1997). The next generation of longitudinal statistical models: Applications to adolescent alcohol use. Colloquium presented to the Department of Psychology, University of North Carolina, Wilmington, February 14, 1997.

Chaired Symposia

- Curran, P.J., & Hussong, A.M.** (2007). The utility of integrative analysis with multiple samples in the study of emerging adulthood. Co-Chaired symposium presented at the 2007 meeting of the Conference on Emerging Adulthood, Tucson, AZ.
- Curran, P.J.** (2002). Recent advances in structural equation modeling. Chaired symposium conducted at the 2002 meeting of the Psychometric Society, Chapel Hill, NC.
- Curran, P.J.** (2001). Recent advances in modeling developmental trajectories. Chaired symposium conducted at the 2001 meeting of the Society for Research on Child Development, Minneapolis, MN.
- Curran, P.J.** (1997). Comparing three modern approaches to longitudinal data analysis: An examination of a single developmental sample. Chaired symposium conducted at the 1997 meeting of the Society for Research on Child Development, Washington, D.C.

Selected Conference Papers & Presentations

- Hussong, A.M., Bauer, D., Serrano, D., **Curran, P.J.**, Chassin, L., Sher, K.J., & Zucker, R.A. (2008, July). Externalizing, not internalizing, symptoms identifies periods and persons at risk for alcohol use in high-risk family contexts: A cross-study analysis. A poster presented at the annual meeting for the Research Society on Alcoholism in Washington, DC.
- Hussong, A.M., **Curran, P.J.**, Lee, T., Wirth, R.J., Chassin, L.A., Sher, K.J., & Zucker, R.A. (2008, May). Symptomatology Identifies Periods and Persons at Risk for Illicit Drug Use in High-Risk Family Contexts: A Cross-Study Analysis. A poster presented at the annual meeting for the Society for Prevention Research in San Francisco, CA.
- Chassin, L., Presson, C., Seo, D-C., Sherman, S.J., Macy, J.T., Wirth, R.J., & **Curran, P.J.** (2008, February). Multiple trajectories of cigarette smoking and the intergenerational transmission of smoking: A multi-generational longitudinal study. Presented at the 2008 meeting of the Society for Research on Nicotine and Tobacco, Portland, OR.
- Curran, P.J.** (2008, February). The Developmental Trajectory of Developmental Trajectory Analysis: Don't Take a Ride on the Dog Train. Invited address presented at the 2008 UNC-Duke Conference on Developmental Psychopathology, Chapel Hill, NC.
- Huang, W., **Curran, P.J.**, and Hussong, A.M. (2008, February). Disaggregating Time-varying, Proximal, and Distal Effects of Parent Alcoholism on Externalizing Symptoms: A Time-Varying Covariate Model. Presented at the 2008 UNC-Duke Conference on Developmental Psychopathology, Chapel Hill, NC.
- Hussong, A.M., & **Curran, P.J.** (2008, July). An introduction to latent growth modeling in alcohol research. Paper to be presented at the annual meeting of the Research Society on Alcoholism, Washington, DC.
- Molina, B.S.G., Pelham, W.E., Cheong, J.W., Marshal, M.P., **Curran, P.J.**, Gnagy, E.M. (2008, July). Growth in drinking frequency, associated alcohol use disorder symptoms, and mediating pathways in adolescents with and without childhood ADHD. Paper to be presented at the Annual Meeting of the Research Society on Alcoholism, Washington, DC.
- Hussong, A.M., **Curran, P.J.**, Flora, D., Wirth, R.J., Edwards, M., Chassin, L., and Zucker, R.A. (March, 2008). Heterogeneity in risk for symptomatology among children of alcoholics over the early life course: A multiple study analysis. Presented at the 2008 meeting of the Society for Research on Adolescence, Chicago, IL.

- Lee, T.-H, **Curran, P.J.**, and Losardo, D. (2008, February). Nonlinear multilevel growth models for binary outcomes: Estimating trajectories of adolescent drug use. Paper presented at the 2008 UNC-Duke Conference on Developmental Psychopathology, Chapel Hill, NC.
- Obeidat, K., and **Curran, P.J.** (2008, February). A multilevel model for predicting individual growth from within-person developmental variability. Paper presented at the 2008 UNC-Duke Conference on Developmental Psychopathology, Chapel Hill, NC.
- Serrano, D., Bauer, D.J., **Curran, P.J.**, & Hussong, A.M. (2008, February). Prediction of alcohol use trajectories by internalizing and externalizing behavior: Simultaneous analysis of three longitudinal studies via the generalized linear mixed model. Paper presented at the 2008 UNC-Duke Conference on Developmental Psychopathology, Chapel Hill, NC.
- Curran, P.J.**, Hussong, A.M., Cai, L., & Huang, W. (2007, February). The integrative analysis of three data sets: Internalizing symptomatology from ages 10 to 33. Presented at the 2007 meeting of the Conference on Emerging Adulthood, Tucson, AZ.
- Hussong, A.M., & **Curran, P.J.** (2007, February). The benefits and challenges of integrative analysis using multiple data sets. Presented at the 2007 meeting of the Conference on Emerging Adulthood, Tucson, AZ.
- Molina, B.S.G., Pelham, W.E., Marshal, M.P., **Curran, P.J.**, Gnagy, E.M., Thompson, A.L., Cheong, J.W. (2007, July). Developmental influences on the associations among childhood ADHD, antisocial behaviors, and alcohol use. Presented at the Annual Meeting of the Research Society on Alcoholism, Chicago, IL.
- Curran, P.J.**, and Peterman, M. (2005, October). A Curious Discrepancy between Multilevel and Structural Equation Growth Curve Models with Time-Varying Covariates. Paper presented at the 2005 meeting of the Society of Multivariate Experimental Psychology, Lake Tahoe, NV
- Curran, P.J.**, Flora, D., & Hussong, A.M. (2005, August). Incorporating differential item functioning in longitudinal studies of growth. Paper presented at the 113th annual meeting of the American Psychological Association, Washington, D.C.
- Edwards, M.C., Wirth, R.J., & **Curran, P.J.** (2004, July). Measurement issues in multilevel models. Paper presented at the 112th annual meeting of the American Psychological Association, Honolulu, HI.
- Wirth, R. J., Edwards, M.C., & **Curran, P. J.** (2004, July). Latent growth modeling with multiple dichotomous indicators: Testing measurement invariance. Paper presented at the 112th annual meeting of the American Psychological Association, Honolulu, HI.
- Wirth, R.J., Edwards, M.C., **Curran, P.J.**, & Hussong, A.M. (2004, June). Categorical measurement models for the analysis of individual growth: Comparing three analytic approaches. Paper presented at the 7th International Summer Institute on Developmental Science, Jyväskylä, Finland.
- Curran, P.J.**, Wirth, R.J., Edwards, M.C., Hussong, A.M., and Chassin, L. (2004, March). Alternative Categorical Measurement Models for the Analysis of Individual Growth. Paper presented at Modeling Developmental Processes in Ecological Context, Tempe, AZ.
- Wirth, R.J., & **Curran, P.J.** (2003, September). The application of hybrid latent growth models to approximate complex nonlinear functions. Paper presented at the annual meeting of the Society of Multivariate Experimental Psychology, Keystone, CO.
- Vandergrift, N.A., **Curran, P.J.** & Bauer (2002, August). Methods for modeling nonlinearity in latent curve models. Paper presented at the annual meeting of the American Psychological Association, Chicago IL.

- Bauer, D.J., & **Curran, P.J.** (2002, June). Estimating Multilevel Linear Models as Structural Equation Models. Paper presented at the 2002 meeting of the Psychometric Society, Chapel Hill, NC.
- Curran, P.J.**, Chen, F., Bollen, K.A., Paxton, P., & Kirby, J.B. (2002, June). An Evaluation of RMSEA Tests of "Close Fit" and "Not Close Fit" in Structural Equation Models. Paper presented at the 2002 meeting of the Psychometric Society, Chapel Hill, NC.
- Vandergrift, N. A., & **Curran, P.J.** (2002, June). Structural Equation Modeling of Nonlinear Growth Trajectories. Paper presented at the 2002 meeting of the Psychometric Society, Chapel Hill, NC.
- Curran, P.J.** (2001, October). A proposed path diagramming strategy for multilevel models. Paper presented at the 2001 meeting of the Society for Multivariate Experimental Psychology, Monterey, CA.
- Bauer, D.J., **Curran, P.J.**, & Bollen, K.A. (2001, June). On the use of confidence bands in latent trajectory models. Paper presented at the 2001 meeting of the Psychometric Society, King of Prussia, PA.
- Bauer, D., & **Curran, P.J.** (2001, April). The impact of model misspecification in clustered and continuous growth modeling. Paper presented at the 2001 meeting of the Society for Research in Child Development, Minneapolis, MN.
- Curran, P.J.**, & Bollen, K.A. (2001, April). The conceptualization and testing of interactions in growth curve modeling. Paper presented at the 2001 meeting of the Society for Research on Child Development, Minneapolis, MN.
- Curran, P.J.**, Bollen, K.A., Paxton, P., Kirby, J., & Chen, F. (2000, October). Use of the RMSEA to evaluate the fit of structural equation models: Statistical power & Type I error. Paper presented at the 2000 meeting of the Society of Multivariate Experimental Research, Saratoga Springs, NY.
- Bollen, K.A., Kirby, J., **Curran, P.J.**, Paxton, P., & Chen, F. (2000, June). 2SLS and FIML estimators in structural equation models with and without specification errors. Paper presented at the 2000 meeting of the Psychometric Society, Vancouver, BC.
- Curran, P.J.**, Bollen, K.A., Paxton, P., Kirby, J., & Chen, F. (2000, June). Point estimates and confidence intervals of the RMSEA: Results from a Monte Carlo simulation. Paper presented at the 2000 meeting of the Psychometric Society, Vancouver, BC.
- Curran, P.J.**, Kaplow, J.B., & Dodge, K. (2000, May). Individual, family, and school risk factors for early initiation of substance use. Paper presented at the 2000 meeting of the Society for Research on Adolescence, Chicago, IL.
- Kaplow, J., **Curran, P.J.**, & Costello, E.J. (1999, June). The relation between subdimensions of anxiety and the development of adolescent alcohol use. Paper presented at the 1999 meeting of the Society for Prevention Research, New Orleans, LA.
- Bollen, K.A., & **Curran, P.J.** (1999, April). An autoregressive latent trajectory (ALT) model: A synthesis of two traditions. Paper presented at the 1999 meeting of the Methodology Section of the American Sociological Association, Duke University, Durham, NC.
- Curran, P.J.** (1999, April). A hybrid latent trajectory model of stability and change: Applications in developmental psychopathology. Paper presented at the 1999 Biennial meeting of the Society for Research in Child Development, Albuquerque, NM.
- Curran, P.J.** (1999, April). Challenges in the pursuit of advanced training in quantitative methodology. In Y. Van Horn (Chair), Perspectives on Postdoctoral Training in Prevention Research. Symposium conducted at the 1999 meeting of the Society for Prevention Research, New Orleans, LA.

- Curran, P.J.**, & Bollen, K.A. (1999, April). Extensions of the autoregressive latent trajectory model: Explanatory variables and multiple group analysis. Paper presented at the 1999 meeting of the Society for Prevention Research, New Orleans, LA.
- Willoughby, M.T., & **Curran, P.J.** (1999, April). Alternative methods for assessing the fit of structural equation models in developmental research. Paper presented at the 1999 Biennial SRCD meeting, Albuquerque, NM.
- Curran, P.J.**, Bollen, K.A., Paxton, P., Kirby, J., & Chen, F. (1999, March). An empirical examination of the RMSEA for assessing fit in structural equation modeling: Finite sampling properties and statistical power. Paper presented at the 1999 meeting of the Methodology Section of the American Sociological Association, Duke University, Durham, NC.
- Curran, P.J.**, & Bollen, K.A. (1998, October). Toward synthesizing autoregressive and latent trajectory models. Paper presented at the 1998 APA sponsored New Methods for the Analysis of Change conference hosted by The Methodology Center, The Pennsylvania State University, University Park, PA.
- Curran, P.J.**, & Hussong, A.M. (1998, June). Statistical models of stability and change. In Analytic Methods for Studying Change Over Time. Symposium conducted at the 1998 meeting of the Society for Prevention Research, Park City, Utah.
- West, S.G., & **Curran, P.J.** (1998, June). Some ideas about fit in confirmatory factor analysis. Paper presented at the Nags Head Conference on Personality and Social Behavior, Highland Beach, FL, June, 1998.
- Curran, P.J.** (1997, August). Structural equation modeling of repeated measures data. In Deborah S. Moskowitz (Chair), A Cornucopia of Riches: Choices when Analyzing Repeated Measures Data. Symposium conducted at the 1997 meeting of the American Psychological Association, Chicago, IL.
- Curran, P.J.** (1997, April). The bridging of quantitative methodology and applied developmental research. In Patrick J. Curran (Chair), Comparing Three Modern Approaches to Longitudinal Data Analysis. Symposium conducted at the 1997 meeting of the Society for Research on Child Development, Washington, D.C.

Teaching

Spring 2008

PSYC845: Latent Growth Curve Modeling (graduate)

Fall 2007

PSYC210: Statistical Principles in Psychological Research (undergraduate)

Fall 2005

PSYC283: Multivariate Statistics (graduate)

Spring 2005

PSYC330: Multilevel Modeling (graduate)

Fall 2003

PSYC030: Statistical Principles in Psychological Research (undergraduate)

Spring 2003

PSYC283: Multivariate Statistics (graduate)

PSYC282: Multiple Regression (graduate)

Fall 2002

PSYC030: Statistical Principles in Psychological Research (undergraduate)

Spring 2002

PSYC283: Multivariate Statistics (graduate)

Fall 2001

PSYC030: Statistical Principles in Psychological Research (undergraduate)

Spring 2001

PSYC282: Multiple Regression (graduate)

Fall 2000

PSYC030: Statistical Principles in Psychological Research (undergraduate)

Spring 2000

PSYC283: Multivariate Statistics (graduate)

Fall 1999

PSYC208: Longitudinal Data Analysis (graduate)

Workshops & Short Courses

Winter, 2007: **Introductory and Advanced Multilevel Modeling**. Five-day workshop taught at Yonsei University, Seoul, South Korea.

Summer 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 **An Introduction to Hierarchical Linear Model Using SAS PROC MIXED**. Five-day course on using hierarchical linear models in applied social science research. Sponsored by ICPSR at the University of Michigan, taught at University of North Carolina at Chapel Hill.

Summer, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006 **Latent Trajectory/Growth Curve Analysis: A Structural Equation Modeling Approach**. Five-day course on theory and application of Latent Trajectory Analysis co-taught with Ken Bollen. Sponsored by ICPSR at the University of Michigan, taught at University of North Carolina at Chapel Hill.

Fall, 1999 **Recent Advances in Growth Curve Modeling: Applications in Developmental Science**. Invited workshop on latent variable based growth modeling presented at the Inaugural meeting of the Cognitive Development Society, University of North Carolina at Chapel Hill.

Summer, 1997 **Longitudinal Statistical Models for Developmental Psychology**. Ten-week longitudinal methods course presented to the Center for Developmental Science, University of North Carolina at Chapel Hill.

Spring, 1997 **Using Hierarchical Linear Growth Models to Evaluate Intervention Effects**. Eight-week course on statistically evaluating intervention efficacy presented to the FAST Track research project, Duke University.

Supervised Pre-Doctoral & Post-Doctoral NIH Fellowships (past 5 years)

Bauer, D. (2000-2002). Extending Growth Mixture Models to the Study of Drug Use. Post-doctoral Individual National Research Service Award. National Institute of Drug Abuse.

Biesanz, J. (1999-2001). Center for Developmental Science, Post-doctoral Institutional National Research Service Award, NICHD, University of North Carolina at Chapel Hill.

Houts, R. (1999-2000). Center for Developmental Science, Post-doctoral Institutional National Research Service Award, NICHD, University of North Carolina at Chapel Hill.

Preacher, K. (2003-present). Longitudinal Factorial Invariance. Post-doctoral Individual National Research Service Award. National Institute of Drug Abuse.

Vandergrift, N. (2002-2004). Modeling nonlinear trajectories: A review and simulation. Pre-doctoral Individual National Research Service Award, National Institute of Drug Abuse.

Willoughby, M. (1999-2002). Sex and age differences in ADHD. Pre-doctoral Individual National Research Service Award, National Institute of Mental Health.

Wirth, R. J. (2003-2006). Measurement invariance in growth models of substance use. Pre-doctoral Ruth L. Kirchstein National Research Service Award. National Institute on Drug Abuse.