

## Patrick J. Curran, Ph.D.

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## Education History

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- 1994–1996     NRSA-F32 Post-Doctoral Fellow. Applied Statistics, School of Education.  
University of California, Los Angeles. Bengt O. Muthén, Advisor.
- 1991–1994     Ph.D., Clinical Psychology. Emphasis, Quantitative Methodology.  
Arizona State University, Tempe, AZ. Stephen G. West & Laurie Chassin, Advisors.
- 1988–1990     M.A., Clinical Psychology  
Arizona State University, Tempe, AZ. Laurie Chassin, Advisor
- 1983–1987     B.A., Psychology, Magna Cum Laude  
University of Colorado, Boulder, CO. David R. Thomas, Advisor

## Employment History

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- 2009–2020     Director, L.L. Thurstone Psychometric Laboratory  
University of North Carolina at Chapel Hill
- 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, Durham, NC.
- 1996–2019     Adjunct Faculty, Center for Developmental Science  
University of North Carolina at Chapel Hill.

## Awards, Honors, and Professional Activities

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- 2023            External Site Visit Team Member, Department of Psychology, University of Minnesota
- 2019            External Site Visit Team Member, Department of Psychology, Notre Dame University
- 2018-present    Co-host of the science podcast *Quantitude* with 126 episodes and 530,00 downloads
- 2018            Recipient of 2018 *Pogue Senior Faculty Research and Scholarly Leave*, UNC at Chapel Hill
- 2017            Member of National Cancer Institute Special Emphasis Review Panel ZRG1 PSE-H (50) R *Cancer-Related Behavioral Research Through Integrating Existing Data*
- 2017-present    Inaugural Editorial Board Member, Association of Psychological Science journal *Advances in Methods and Practices in Psychological Science*
- 2016            Recipient of the 2016 *Jacob Cohen Award for Distinguished Contributions to Teaching and Mentoring* awarded by Division 5 of the American Psychological Association
- 2015-present    Editorial Board, *American Psychologist*

- 2012 Recipient of the 2012 *University Chapman Family Teaching Award* in recognition of distinguished teaching of undergraduate students, University of North Carolina
- 2012-2015 Advisory Board Member, Science of Research and Technology Branch, National Cancer Institute
- 2012-present Consulting Editor, *Archives of Scientific Psychology*
- 2011-2015 Consulting Editor, *Journal of Abnormal Psychology*
- 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 of 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-present Editorial Board, *Psychological Methods*
- 2003-2006 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
- 1999 Featured early career scientist in 1999 *Early Career Preventionist Networks Newsletter*

## Peer Reviewed Manuscripts

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➤ † denotes student or post-doctoral fellow at time of publication

➤ As of September, 2023: 115 publications; 50,811 citations; *h-index*=65

Cole, V. T., Hussong, A. M., Gottfredson, N. C., Bauer, D. J., and **Curran, P. J.** (in press). Informing harmonization decisions in Integrative Data Analysis: Exploring the measurement multiverse. *Prevention Science*.

Melsom<sup>†</sup>, L., Ulvenes, P.G., Solbakken, O.A., **Curran, P.J.**, & Wampold, B.E. (2022). Emotional clarity and tolerance of emotional distress as mechanisms of change in short-term psychodynamic psychotherapy for chronic depression. *Journal of Consulting and Clinical Psychology, 90*, 289-302.

Punt, A.M., Judson, M.C., Sidorov, M.S., Williams, B.N., Johnson, N.S., Belder, S., den Hertog, D., Davis, C.R., Feygin, M.S., Lang, P.F., Jolfael, M.A., **Curran, P.J.**, van Ijken, W.F.J., Elgersma, Y., & Philpot, B.D. (in press). Molecular and behavioral consequences of Ube3a gene overdosage in mice. *The Journal of Clinical Investigation*.

Besson, E.K., Norris, A., Bin Ghouth, A.S., Freemantle, T., Al-Haffar, M., Vazquez, Y., Reeve, C., **Curran, P.J.**, Checchi, F. (2021). Excess mortality during the COVID-19 pandemic: A geospatial and statistical analysis in Aden governorate, Yemen. *BMJ Global Health, 6*, e004564. doi:10.1136/bmjgh-2020-004564

Sonis J., Pathman D.E., Read S., Gaynes B.N., Canter C., **Curran P.J.**, & Miller T. (2021). Generalized anxiety, depression and posttraumatic stress disorder in a national sample of U.S. internal medicine physicians during the COVID-19 pandemic. *General Hospital Psychiatry, 71*, 142–144.

- Curran, P.J.**, and Hancock, G.R. (2021). The challenge of modeling co-developmental processes over time. *Child Development Perspectives*, *15*, 67-75. <http://doi.org/10.1111/cdep.12401>
- Hussong, A.H., Bauer, D.J., Giordano<sup>†</sup>, M., and **Curran, P.J.** (2021). Harmonizing altered measures in Integrative Data Analysis: A methods analogue study. *Behavior Research Methods*, *53*, 1031-1045. [10.3758/s13428-020-01472-7](https://doi.org/10.3758/s13428-020-01472-7)
- Wang<sup>†</sup>, F. L., Pedersen, S. L., Joseph, H., Gnagy, E. M., **Curran, P.J.**, Pelham Jr, W. E., & Molina, B. S. (2019). Role of ADHD in the Co-Occurrence between heavy alcohol use and depression trajectories in adulthood. *Alcoholism: Clinical and Experimental Research*, *43*, 342-352. [doi.org/10.1111/acer.13934](https://doi.org/10.1111/acer.13934)
- Curran, P. J.**, Georgeson<sup>†</sup>, A. R., Bauer, D. J., & Hussong, A. M. (2021). Psychometric models for scoring multiple reporter assessments: Applications to integrative data analysis in prevention science and beyond. *International Journal of Behavioral Development*, *45*, 40-50. [10.1177/0165025419896620](https://doi.org/10.1177/0165025419896620)
- Yang, Y. C., Walsh, C. E., Johnson, M., Belsky, D. W., Reason<sup>†</sup>, M., **Curran, P.J.**, Aiello, A., Chanti-Ketterl, M., & Harris, K.M (2021). Life course trajectories of body mass index from adolescence to old age: Racial and educational disparities. *Proceedings of the National Academy of Sciences*, *118*, 1-11. [10.1073/pnas.2020167118](https://doi.org/10.1073/pnas.2020167118)
- Farrell, A.D., Thompson, E.L., **Curran, P.J.**, & Sullivan T. N. (2020). Bidirectional relations between witnessing violence, victimization, life events, and physical aggression among adolescents in urban schools. *Journal of Youth and Adolescence*, *49*, 1309-1327. [doi.org/10.1007/s10964-020-01204-2](https://doi.org/10.1007/s10964-020-01204-2)
- Hussong, A.M., Gottfredson, N., Bauer, D.J., **Curran, P.J.**, Haroon, M., Chandler, R., Delaney, J., Altice, F., Beckwith, C., Feaster, D., Flynn, P., Gordon, M., Knight, K., Kuo, I., Ouellet, L, Quan, V., Seal, D., Springer, S. (2019). Approaches for creating comparable measures of alcohol use symptoms: Harmonization with eight studies of criminal justice populations. *Drug and Alcohol Dependence*, *194*, 59-68.
- Curran, P.J.**, Cole, V.T.<sup>†</sup>, Bauer, D.J., Rothenberg, A.W.<sup>†</sup>, & Hussong, A.M. (2018). Recovering predictor-criterion relations using covariate-informed factor score estimates. *Structural Equation Modeling: A Multidisciplinary Journal*, *25*, 860-875. [PMCID PMC6586237](https://pubmed.ncbi.nlm.nih.gov/3586237/). [doi: 10.1080/10705511.2018.1473773](https://doi.org/10.1080/10705511.2018.1473773).
- Pearce, L.D., Hayward, G.M.<sup>†</sup>, Chassin, L., & **Curran, P.J.** (2018). The increasing diversity and complexity of family structures for adolescents. *Journal of Research on Adolescence*, *28*, 591-608.
- Curran, P.J.**, Cole, V.T.<sup>†</sup>, Giordano, M.<sup>†</sup>, Georgeson, A.R.<sup>†</sup>, Hussong, A.M., & Bauer, D.J. (2018). Advancing the study of adolescent substance use through the use of integrative data analysis. *Evaluation and the Health Professions*, *41*, 216-245.
- Curran, P.J.**, Cole, V.T.<sup>†</sup>, Bauer, D.J., Hussong, A.M., & Gottfredson, N. (2016). Improving factor score estimation through the use of observed background characteristics. *Structural Equation Modeling: A Multidisciplinary Journal*, *23*, 827-844. [doi: 10.1080/10705511.2016.1220839](https://doi.org/10.1080/10705511.2016.1220839).
- Burns<sup>†</sup>, A.R., Hussong, A.M., Solis<sup>†</sup>, J.M., **Curran, P.J.**, McGinley, J.S.<sup>†</sup>, Bauer, D.J., Chassin, L., & Zucker, R.A. (2017). Examining Cohort Effects in Developmental Trajectories of Substance Use. *International Journal of Behavioral Development*, *41*, 621-631. [doi: 10.1177/0165025416651734](https://doi.org/10.1177/0165025416651734).
- McGinley<sup>†</sup>, J.S., **Curran, P.J.**, Hedeker, D. (2015). A novel modeling framework for ordinal data defined by collapsed counts. *Statistics in Medicine*, *34*, 2312-2324. [PMCID: in process](https://pubmed.ncbi.nlm.nih.gov/26111111/)
- Bainter<sup>†</sup>, S.A., & **Curran, P.J.** (2015). Advantages of integrative data analysis for developmental research. *Journal of Cognition and Development*, *16*, 1-10. [PMCID: PMC4309386](https://pubmed.ncbi.nlm.nih.gov/26111111/)
- Curran, P.J.** (2014). The critical role of measurement (and space elevators) in the study of child development. *Journal of Pediatric Psychology*, *39*, 258-261.

- Curran, P.J.**, Howard<sup>†</sup>, A.L., Bainter<sup>†</sup>, S., Lane<sup>†</sup>, S.T., & McGinley<sup>†</sup>, J.S. (2014). The separation of between-person and within-person components of individual change over time: A latent curve model with structured residuals. *Journal of Consulting and Clinical Psychology, 82*, 879-894. PMID: PMC4067471
- Curran, P.J.**, McGinley<sup>†</sup>, J.S., Bauer, D.J., Hussong, A.M., Burns<sup>†</sup>, A., Chassin, L., Sher, K., & Zucker, R. (2014). A moderated nonlinear factor model for the development of commensurate measures in integrative data analysis. *Multivariate Behavioral Research, 49*, 214-231. PMID: PMC4423418
- McGinley<sup>†</sup>, J.S., & **Curran, P.J.** (2014). Validity concerns with multiplying ordinal items defined by binned counts: An application to a quantity-frequency measure of alcohol use. *Methodology: European Journal of Research Methods for the Behavioral and Social Sciences, 10*, 108-116. PMID: PMC4217492
- Bauer, D., Howard<sup>†</sup>, A., Baldasaro<sup>†</sup>, R., **Curran, P.J.**, Hussong, A., Chassin, L., & Zucker, R. (2013). A trifactor model for integrating ratings across multiple informants. *Psychological Methods, 18*, 475-493. PMID: PMC3964937
- Chassin, L., Sher, K., Hussong, A.M., & **Curran, P.J.** (2013). The developmental psychopathology of alcohol use and alcohol disorders: Research achievements and future directions. *Development and Psychopathology, 25*, 1567-1584. PMID: PMC4080810
- Hussong, A.M., **Curran, P.J.**, & Bauer, D.J. (2013). Clinical applications of integrative data analysis. *Annual Review of Clinical Psychology, 9*, 61-89. PMID: PMC3924786
- Lane<sup>†</sup>, S.L., Franklin<sup>†</sup>, J.C., & **Curran, P.J.** (2013). Clarifying the nature of startle habituation using latent curve models. *International Journal of Psychophysiology, 88*, 55-63. PMID: not needed.
- Hussong, A.M., Huang<sup>†</sup>, W., Serrano<sup>†</sup>, D., **Curran, P.J.**, & Chassin, L. (2012). Testing whether and when parent alcoholism uniquely affects various forms of adolescent substance use. *Journal of Abnormal Child Psychology, 40*, 1265-1276. PMID: PMC3473117
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- Curran, P.J.**, & Bauer, D.J. (2011). The disaggregation of within-person and between-person effects in longitudinal models of change. *Annual Review of Psychology, 62*, 583-619. PMID: PMC3059070
- Curran, P.J.**, Obeidat<sup>†</sup>, K., & Losardo<sup>†</sup>, D. (2010). Twelve frequently asked questions about growth curve modeling. *Journal of Cognition and Development, 11*, 121-136. PMID: PMC3131138
- Hussong, A.M., Huang<sup>†</sup>, W., **Curran, P.J.**, Chassin, L., & Zucker, R.A. (2010). Parent alcoholism impacts the severity and timing of children's externalizing symptoms. *Journal of Abnormal Child Psychology, 38*, 367-380. PMID: PMC3215275
- Curran, P.J.** (2009). The seemingly quixotic pursuit of a cumulative psychological science: Introduction to the special issue. *Psychological Methods, 14*, 77-80. PMID: PMC2766595
- Curran, P.J.**, & Hussong, A.M. (2009). Integrative data analysis: The simultaneous analysis of multiple data sets. *Psychological Methods, 14*, 81-100. PMID: PMC2777640
- Chassin, L., Presson, C., Seo, D.-C., Sherman, S.J., Macy, J. Wirth<sup>†</sup>, R.J., & **Curran, P.J.** (2008). Multiple trajectories of cigarette smoking and the intergenerational transmission of smoking: A multigenerational longitudinal study of a Midwestern community sample. *Health Psychology, 27*, 819-828. PMID: not needed
- Chen<sup>†</sup>, F., **Curran, P.J.**, Bollen, K.A., Kirby<sup>†</sup>, J., and Paxton<sup>†</sup>, P. (2008). An empirical evaluation of the use of fixed cutoff points in RMSEA test statistic in structural equation models. *Sociological Methods and Research, 36*, 462-494. PMID: PMC2743032

- Coffman, J. L., Ornstein, P. A., McCall, L. E., & **Curran, P. J.** (2008). Linking teachers' memory-relevant language and the development of children's memory skills. *Developmental Psychology, 44*, 1640-1654. PMID: PMC4079074
- Curran, P.J.**, Hussong, A.M., Cai<sup>†</sup>, L., Huang<sup>†</sup>, W., Chassin, L., Sher, K.J., & Zucker, R.A. (2008). Pooling data from multiple longitudinal studies: The role of item response theory in integrative data analysis. *Developmental Psychology, 44*, 365-380. PMID: PMC2773828
- Flora<sup>†</sup>, D.B., **Curran, P.J.**, Hussong, A.M., & Edwards<sup>†</sup>, M.C. (2008). Incorporating measurement non-equivalence in a cross-study latent growth curve analysis. *Structural Equation Modeling, 15*, 676-704. PMID: PMC2772080
- Hussong, A.M., Cai<sup>†</sup>, L., **Curran, P.J.**, Flora<sup>†</sup>, D.B., Chassin, L., & Zucker, R.A. (2008). Disaggregating the distal, proximal, and time-varying effects of parent alcoholism on children's internalizing symptoms. *Journal of Abnormal Child Psychology, 36*, 335-346. PMID: PMC2785434
- Hussong, A.M., Flora<sup>†</sup>, D.B., **Curran, P.J.**, Chassin, L.A., Zucker, R.A. (2008). Defining risk heterogeneity for internalizing symptoms among children of alcoholic parents. *Development and Psychopathology, 20*, 165-193. PMID: PMC2249558
- Bollen, K.A., Kirby<sup>†</sup>, J.B., **Curran, P.J.**, Paxton<sup>†</sup>, P.M., & Chen<sup>†</sup>, F. (2007). Latent variable models under misspecification: A comparison of Two Stage Least Squares (2SLS) to Full Information Maximum Likelihood estimators (FIML). *Sociological Methods and Research, 36*, 48-86.
- Hussong, A.M., Wirth<sup>†</sup>, R.J., Edwards<sup>†</sup>, M.C., **Curran, P.J.**, Zucker, R.A., & Chassin, L.A. (2007). Externalizing symptoms among children of alcoholic parents: Entry points for an antisocial pathway to alcoholism. *Journal of Abnormal Psychology, 116*, 529-542.
- Curran, P.J.**, & Bauer, D.J. (2007). Building path diagrams for multilevel models. *Psychological Methods, 12*, 283-297.
- Preacher<sup>†</sup>, 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.  
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- 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.
- Bollen, K.A., & **Curran, P.J.** (2004). Autoregressive latent trajectory (ALT) models: A synthesis of two traditions. *Sociological Methods and Research, 32*, 336-383.  
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- Biesanz<sup>†</sup>, J.C., Deeb-Sossa<sup>†</sup>, N., Aubrecht<sup>†</sup>, 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<sup>†</sup>, M.T. (2004). Testing and probing main effects and interactions in latent curve analysis. *Psychological Methods, 9*, 220-237.
- Curran, P.J.**, & Wirth<sup>†</sup>, R.J. (2004). Inter-individual differences in intra-individual variation: Balancing internal and external validity. *Measurement: Interdisciplinary Research and Perspectives, 2*, 219-227. PMID: PMC3131143

- Flora<sup>†</sup>, 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. PMID: 3153362
- Hipp<sup>†</sup>, 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<sup>†</sup>, 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.  
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- Bauer, D.J., & **Curran, P.J.** (2003-*b*). Overextraction of latent trajectory classes: Much ado about nothing? *Psychological Methods, 8*, 384-393.
- Carrig<sup>†</sup>, M., Wirth<sup>†</sup>, R.J., & **Curran, P.J.** (2004). 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<sup>†</sup>, F., Paxton<sup>†</sup>, P., & Kirby<sup>†</sup>, 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<sup>†</sup>, P., Kirby<sup>†</sup>, J., & Chen<sup>†</sup>, 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.
- Kaplow<sup>†</sup>, 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. PMID: 2758661
- Rodebaugh<sup>†</sup>, 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<sup>†</sup>, F., Bollen, K.A., Paxton<sup>†</sup>, P., **Curran, P.J.**, & Kirby<sup>†</sup>, J. (2001). Improper solutions in structural equation models: Causes, consequences, and strategies. *Sociological Methods and Research, 29*, 468-508.
- Hussong, A.M., Hicks<sup>†</sup>, R.E., Levy<sup>†</sup>, 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<sup>†</sup>, 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.
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- Willoughby<sup>†</sup>, 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.
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## Books

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Bollen, K.A., & **Curran, P.J.** (2006). *Latent curve models: A structural equation approach*. Hoboken, NJ: John Wiley & Sons.

## Book Chapters, Book Reviews, and Published Abstracts

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<sup>†</sup> denotes student or post-doctoral fellow at time of publication

**Curran, P.J.**, Strauss<sup>†</sup>, C.L., McCormick<sup>†</sup>, E.M., & McGinley<sup>†</sup> (in press). A multivariate growth curve model for three-level data. In H. Cooper (Ed.) *APA Handbook of Research Methods in Psychology, Second Edition*. Washington, DC: American Psychological Association.

Hussong, A.M., Cole<sup>†</sup>, V.T., **Curran, P.J.**, Bauer, D.J., & Gottfredson, N.C. (2020). Integrative data analysis and the study of global health. X. Chen & D.-G. Chen (Eds.), *Statistical Methods for Global Health and Epidemiology: Principles, Methods and Applications* (pp. 121-158). ICSA Book Series in Statistics. Springer Nature Switzerland.

Bauer, D.J., McNeish<sup>†</sup>, D., Baldwin, S.A., & Curran, P.J. (2020). Analyzing nested data: multilevel modeling and alternative approaches. In A. Wright & M. Hallquist (Eds.), *The Cambridge Handbook of Research Methods in Clinical Psychology* (pp. 426-443). Cambridge University Press.

McNeish<sup>†</sup>, D., Lane<sup>†</sup>, S., & **Curran, P.J.** (2018). Monte Carlo Simulation Methods. In *The Reviewer's Guide to Quantitative Methods in the Social Sciences* (pp. 269-276). Routledge.

Bauer, D.J., & **Curran, P.J.** (2016). The discrepancy between measurement and modeling in longitudinal data analysis. In J. Harring & L. Stapleton (Eds.), *Advances in Multilevel Modeling for Educational Research: Addressing Practical Issues Found in Real-World Applications* (pp. 3-38). Charlotte, NC: Information Age Publishing.

Howard<sup>†</sup>, A.L., & **Curran, P.J.** (2014). Latent growth curve modeling. In A. C. Michalos (Ed.). *Encyclopedia of Quality of Life and Well-Being Research* (pp. 3515-3517). Dordrecht, Netherlands: Springer.

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**Curran, P.J.**, Lee<sup>†</sup>, T.H., Howard<sup>†</sup>, A.L., Lane<sup>†</sup>, S.T., & MacCallum, R.C. (2012). Disaggregating within-person and between-person effects in multilevel and structural equation growth models. In J. Harring & G. Hancock (Eds.) *Advances in Longitudinal Methods in the Social and Behavioral Sciences* (pp. 217-253). Charlotte, NC: Information Age Publishing.

**Curran, P.J.**, McGinley<sup>†</sup>, J.S., Serrano<sup>†</sup>, D., & Burfeind<sup>†</sup>, C. (2012). A multivariate growth curve model for three-level data. In H. Cooper (Ed.) *APA Handbook of Research Methods in Psychology, Volume 3* (pp.335-358). Washington, DC: American Psychological Association.

McGinley, J.S., & **Curran, P.J.** (2010). Concerns about the use of ordinal quantity-frequency measures to estimate individual alcohol consumption. *Alcoholism: Clinical and Experimental Research*, 34, 67A.

Chassin, L., **Curran, P.J.**, Presson, C.C., Sherman, S.J., & Wirth<sup>†</sup>, R.J. (2009). Developmental trajectories of cigarette smoking from adolescence to adulthood: An overview and relations to indicators of tobacco dependence. In *Phenotypes and Endophenotypes: Foundations for Genetic Studies of Nicotine Use and Dependence* (pp.189-244). Tobacco Control Monograph No. 20. Bethesda, MD: U.S. Department of Health and Human Services, National Institutes of Health, National Cancer Institute. NIH Publication No. 09-6366, August, 2009.

Hussong, A. M., Bauer, D., Serrano<sup>†</sup>, D., **Curran, P.J.**, Chassin, L., Sher, K. J., & Zucker, R. A. (2008). Externalizing, not internalizing, symptoms identifies periods and persons at risk for alcohol use in high-risk family contexts: A cross-study analysis. *Alcoholism: Clinical and Experimental Research*, 32, 237.



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- Curran, P.J.**, Edwards<sup>†</sup>, M.C., Wirth<sup>†</sup>, 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 & Contextual Effects in Longitudinal Studies of Human Development* (p.89-120). Mahwah, NJ: LEA.
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- Curran, P.J.** (2000-c). Latent growth curve modeling. Review of [An Introduction to Latent Variable Growth Curve Modeling: Concepts, Issues, and Applications](#). *Applied Psychological Measurement*, *24*, 181-183.
- 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.
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- 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.

## **Selected Conference Papers and Presentations**

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- Baral<sup>†</sup>, S., & **Curran, P.J.** (May, 2023). Dynamic Structural Equation Modeling: Promising Yet Concerning. The Annual Meeting of the UCLA Psychology Undergraduate Research Conference, Los Angeles, CA.
- Baral<sup>†</sup>, S., & **Curran, P.J.** (April, 2023). Examining Dynamic Structural Equation Models for Longitudinal Co-Development. The Annual Meeting of the Starling Reid Psychology Research Conference, Charlottesville, VA.
- Melsom, L., Ulvenes, P., Solbakken, O.A., **Curran, P.J.**, & Wampold, B. (June, 2021). Emotional Processes of Change: Naturalistic Process Study of Short-Term Dynamic Psychotherapy for Chronic Depression. The Annual Meeting of the Society for Psychotherapy Research, Heidelberg, Germany.
- Yang, Y. C., Walsh, C. E., Johnson, M., Reason, M., Aiello, A., Belsky, D., Harris, K.M., **Curran, P.J.**, & Chanti-Ketterl, M. (April, 2020). Life Course Trajectories of Body Mass Index from Adolescence to Old Age: Racial/Ethnic and Educational Disparities. The Annual Meeting of the Population Association of America, Washington, DC, April 2020 (Cancelled due to COVID-19)
- Reason, M., Yang, Y.C., Aiello, A., Belsky, D., **Curran, P.J.**, Harris, K.M., Plassman, B., & Stebbins, R. (August, 2020). Measuring Global Cognition in a Pooled Sample using Modified Non-Linear Factor Analysis, Paper presented at the American Sociological Association Annual Conference, San Francisco, CA.
- Curran, P.J.**, Hussong, A.M., & Bauer, D.J. (October, 2019). Integrative Data Analysis: Where We've Been and Where We Need to Go. Paper presented at the meeting of the Society for Multivariate Experimental Psychology, Baltimore, MD.
- Curran, P.J.**, Hussong, A.M., & Bauer, D.J. (September, 2019). Integrative Data Analysis: Promises, Challenges, and Recommendations. Invited Keynote Address to the Wellcome-Genome Conference on Optimising Multistudy Integrative Research, Cambridge, England.
- Bauer, D.J., & **Curran, P.J.** (March, 2019). Conducting Longitudinal Data Analysis: Knowing What to Do and How to Do It. Paper presented at the Society for Research on Child Development meeting, Baltimore, MD.
- Cole, V.T., **Curran, P.J.**, Bauer, D.J. & Hussong, A.M. (June, 2018). Latent Variable-Based Methods for Harmonizing Data across Studies: Findings in Integrative Data Analysis. Paper presented at the Society for Prevention Research meeting. Washington, DC.
- Curran, P.J.**, Cole, V.T., Bauer, D.J., Rothenberg, W.A., and Hussong, A.M. (October, 2017). Recovering Predictor-Criterion Relations Using Covariate-Informed Factor Score Estimates: Applications in Integrative Data Analysis. Paper presented at the meeting of the Society for Multivariate Experimental Psychology, Minneapolis, MN.
- Bauer, D.J., Hussong, A.M., & **Curran, P.J.** (2017, April). How Integrative Data Analysis Can Advance the Study of Child Development. Paper presented at the meeting of the Society for Research in Child Development, Austin, TX.
- Giordano, M.L., Bauer, D.J., Hussong, A.M., **Curran, P.J.** (July, 2016). An Evaluation of IRT Scores Using a Within-Subjects Design with a Young Adult Sample. International Meeting of the Psychometric Society, Asheville, NC.
- Hussong, A.M., Cole<sup>†</sup>, V., **Curran, P.J.**, & Bauer, D.J. (March, 2016). An Introduction to Integrative Data Analysis. Invited research colloquium presented at the biennial meeting of the Society for Research on Adolescence, Baltimore, MD.
- Bauer, D.J., **Curran, P.J.**, & Hussong, A.M. (October, 2015). Progress in validating scoring methods for integrative data analysis. Paper presented at the meeting of the Society for Multivariate Experimental Psychology, Los Angeles, CA.
- Lane<sup>†</sup>, S.T., & **Curran, P.J.** (2015, May). Evaluating the interaction of growth factors in the univariate latent curve model. Poster presented at the annual meeting of the Association for Psychological Science, New York, NY.

- Bauer, D.J., Cole, V.T., Gottfredson, N.C., **Curran, P.J.**, & Hussong, A.M. (October, 2014). Constructing common measures for integrative data analysis: Score performance. Paper presented at the meeting of the Society for Multivariate Experimental Psychology, Nashville, TN.
- Curran, P.J.**, Gottfredson, N.C., Cole, V.T., Bauer, D.J., & Hussong, A.M. (October, 2014). Constructing common measures for integrative data analysis: Model performance. Paper presented at the meeting of the Society for Multivariate Experimental Psychology, Nashville, TN.
- Curran, P.J.**, Hussong, A.M., & Bauer, D.J. (August, 2014). Integrative data analysis: A novel methodological framework for data harmonization and pooling. Invited paper presented at the 2014 meeting of the American Psychological Association, Washington, DC.
- Bauer, D.J., **Curran, P.J.**, & Hussong, A.M. (October, 2013). Evaluating approaches for synthesizing a common measure from different instruments to facilitate multi-study integrative data analyses of substance use and disorder. Paper presented at the 2013 meeting of the Society of Multivariate Experimental Psychology, Orlando FL.
- Curran, P.J.**, Bainter, S., Hussong, A.M., Bauer, D.J., & Howard, A. (October, 2013). A non-linear bifactor model of polysubstance use. Paper presented at the 2013 meeting of the Society of Multivariate Experimental Psychology, Orlando FL.
- McGinley, J.S., & **Curran, P.J.** (June, 2013). An innovative modeling framework for ordinal adolescent alcohol use data. Paper presented at the Research Society on Alcoholism Conference, Orlando, Florida.
- Lane, S.T., & **Curran, P.J.** (May, 2013). Evaluating the prediction of growth factors under misspecification of functional form. Paper presented at the Modern Modeling Methods Conference, University of Connecticut.
- Burns, A., Hussong, A. M., Solis, J. M., **Curran, P.J.**, Chassin, L., & Zucker, R. A. (2013, April). Cohort Effects in Developmental Trajectories of Substance Use Over Ages 10-40. A poster presented at the biannual meeting for the Society for Research on Child Development in Seattle, WA.
- Curran, P.J.**, & McGinley, J.S. (2012, October). A Psychometric Evaluation of Quantity-Frequency Measures of Substance Use. Paper presented at the 2012 meeting of the Society of Multivariate Experimental Psychology. Vancouver, BC.
- Hussong, A.M., McGinley, J.S., **Curran, P.J.**, Bauer, D.J., Chassin, L., & Zucker, R.A. (October, 2012). Disentangling Levels and Rates of Externalizing Symptoms as Predictors of Alcohol Use Patterns in Emerging Adulthood. Paper presented at the biennial meeting of the Society for Research on Child Development: Transitions from Adolescence to Adulthood. Tampa, FL.
- Burns, A.R., Hussong, A.M, Solis, J.M., **Curran, P.J.**, Chassin, L., & Zucker, R.A. (June 2012). Cohort effects in developmental trajectories of substance use over ages 10-40. Paper presented at the annual meeting of the Society for Prevention Research, Washington, DC.
- Bauer, D.J., Bainter, S.A., Hussong, A.M., & **Curran, P.J.** (2012, May). Harmonizing classification variables in integrative data analysis. Paper presented at the annual meeting of the Association for Psychological Science, Chicago, IL.
- Curran, P.J.**, Bauer, D.J., & Hussong, A.M. (2012, May). Longitudinal measurement modeling in integrative data analysis. Paper presented at the annual meeting of the Association for Psychological Science, Chicago, IL.
- Curran, P.J.**, Hussong, A.M., & Bauer, D.J. (2012, May). Integrative data analysis: The simultaneous analysis of multiple independent data sets. Paper presented at the annual meeting of the Association for Psychological Science, Chicago, IL.
- Bauer, D.J., **Curran, P.J.** & Hussong, A.M. (2012, February). Integrative Data Analysis. Society for Research in Child Development, Developmental Methodology Conference, Tampa.

- Bauer, D.J., **Curran, P.J.** & Hussong, A.M. (2011, June). Integrative Data Analysis. Florida Mental Health Institute, University of South Florida, Tampa.
- Howard, A. L., Bauer, D. J., Baldasaro, R., **Curran, P.J.**, & Hussong, A. M. (2012, March). Combining Mother and Father Reports of Children's Negative Affect Using Integrative Data Analysis. Paper presented at the 14th Biennial Meeting of the Society for Research on Adolescence, Vancouver, B.C.
- McGinley, J.S., Mathiowitz, R., Bauer, D.J. **Curran, P.J.**, & Hussong, A.M. (June, 2011). Using longitudinal integrative data analysis to score internalizing symptomatology from three independent data sets. Paper presented at the 19th annual meeting of the Society for Prevention Research in Washington, DC.
- Hussong, A.M., **Curran, P.J.**, & Bauer, D.J. (2011, April). Using integrative data analysis to study child development. An invited paper presented at biennial meeting of the Society for Research on Child Development in Methodological Issues in Developmental Science (Antonio Morgan-Lopez, Chair). Montreal, Canada.
- Hussong, A.M., & **Curran, P.J.** (2011, February). Studying the development of drug abuse through integrative data analysis. An invited presentation to the National Institute on Drug Abuse. Bethesda, MD.
- Sweeney, P.J., Dirks, K.T., & **Curran, P.J.** (2010, January). The trajectory of trust: How does trust develop and why? A paper presented at the 5th EIASM Workshop on Trust within and between Organization in Madrid, Spain.
- Bauer, D.J., **Curran, P.J.**, & Hussong, A.M. (2010, September). Measurement in heterogeneous populations: beyond multiple groups. Meeting of the Society for Multivariate Experimental Psychology, Atlanta, Georgia.
- McGinley, J. S. and **Curran, P.J.** (2010, June). Concerns about the use of ordinal quantity-frequency measures to estimate individual alcohol consumption. Poster presented at the 2010 Annual Scientific Meeting of the Research Society on Alcoholism, San Antonio, TX.
- Hussong, A.M., **Curran, P.J.**, & Bauer, D.J. (2010, June). Implications of Research on Parental Alcoholism for Earlier Prevention Efforts. In L. Price (Chair), Parent Psychopathology and Risk for Child Mental Health and Substance Use Disorders: Opportunities for Prevention and Intervention. A paper presented at the annual meeting for the Society for Prevention Research in Denver, CO.
- Bauer, D.J., **Curran, P.J.**, & Hussong, A.M. (2010, March). Toward a Cumulative Psychological Science: Integrative Data Analysis. Invited presentation for Department of Psychology, Brigham Young University.
- Curran, P.J.**, & Hussong, A.M. (2009, October). The Application of Integrative Data Analysis to the Study of Developmental Processes. Colloquium presented to the Center for the Analysis of Pathways from Childhood to Adulthood, Institute for Social Research, University of Michigan.
- 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.**, Lee, T-H., MacCallum, R.A. (2007). Disaggregating within-person and between-person effects in latent curve models. Paper presented at the 2007 meeting of the Society of Multivariate Experimental Psychology, 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.
- Curran, P.J.**, & Hussong, A.M. (2007, February). 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.
- 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.
- Curran, P.J.** (2002, June). Recent advances in structural equation modeling. Chaired symposium conducted at the 2002 meeting of the Psychometric Society, Chapel Hill, NC.
- 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.
- Curran, P.J.** (2001, June). Recent advances in modeling developmental trajectories. Chaired symposium conducted at the 2001 meeting of the Society for Research on Child Development, Minneapolis, MN.
- 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.

## **Selected Invited Colloquia**

- Curran, P.J.** (November, 2023). Latent Curve Factors as Mediators: Challenges and Opportunities. Department of Psychology, University of California, Los Angeles, Los Angeles, CA.
- Curran, P.J.** (November, 2023). The Disaggregation of Within- and Between-Person Effects in Latent Curve Models. Department of Psychology, University of Southern California, Los Angeles, CA.
- Curran, P.J.** (October, 2023). Growth Factors as Predictors: Completing the Triad. Department of Psychology, University of Delaware, Newark, DE.
- Curran, P.J.** (January, 2023). The Challenge of Modeling Dual-Change Over Time. Department of Psychology, Princeton University, Princeton, NJ.
- Curran, P.J.** (September, 2022). Statistical Models for Co-Development. Department of Psychology, Georgia Tech University, Atlanta, GA.
- Curran, P.J.** (February, 2021). Recent Advances in the Longitudinal Modeling of Inter-Related Behaviors. Department of Psychology, West Virginia University, Morgantown, WV.
- Curran, P.J.** (February, 2021). Integrative Data Analysis: Promises, Challenges, and Recommendations. Department of Psychology, York University, Toronto, Ontario.
- Curran, P.J.** (February, 2021). The Challenge of Modeling Co-Developmental Processes over Time. Department of Psychology, Virginia Commonwealth University, Richmond, VA.
- Curran, P.J.** (September, 2020). The Future of Integrative Data Analysis. Department of Psychology, University of Southern California, Los Angeles, CA.
- Curran, P.J.** (April, 2019). Modern Psychometrics: Better Than We Were, Not As Good As We Want To Be. Department of Human Development and Family Studies, Penn State University, State College, PA.
- Hussong, A.M., **Curran, P.J.**, and Bauer, D.B. (October, 2018). Integrative Data Analysis and the Study of Adolescent Substance Use. Oregon Social Learning Center, Eugene, OR.
- Curran, P.J.** (March, 2018). Psychometrics From a Data Science Perspective. Department of Human Development and Quantitative Methodology, University of Maryland, College Park, MD.
- Curran, P.J.**, (March, 2018). Advances in Measurement and Scoring for Applications in Integrative Data Analysis. National Cancer Institute, Division of Cancer Control and Population Sciences, Rockville, MD.
- Curran, P.J.** (September, 2017). Integrative Data Analysis: A Promising Methodological Framework for Data Harmonization. Department of Psychology, McGill University, Montreal, CA.
- Curran, P.J.** (September, 2017). The Separation of Within-Person and Between-Person Change in Latent Curve Models. Quantitative Psychology Program, McGill University, Montreal, CA.
- Curran, P.J.** (May, 2017). The application of Integrative Data Analysis to the Study of Cardiac Risk Phenotypes and Select Candidate Gene Variants. Department of Psychiatry and Behavioral Science, Duke University Medical Center.
- Curran, P.J.** (August, 2016). Modernizing the Teaching of Quantitative Psychology. Invited address at the Annual Meeting of the American Psychological Association, Denver, CO.
- Curran, P.J.**, Bauer, D.J., & Hussong, A.M. (March, 2016). Promises and Challenges in the Psychometric Assessment of Low Base-rate Behaviors using Integrative Data Analysis. Invited presentation, Pathways to Prevention Workshop: Advancing Research to Prevent Youth Suicide, National Institutes of Health Office of Disease Prevention, Rockville, MD.
- Curran, P.J.**, Bauer, D.J., & Hussong, A.M. (September, 2015). The Application of Integrative Data Analysis in Substance Use Research. Invited Webinar Colloquium, Society for Research on Nicotine and Tobacco, Disparities and Treatment Networks.



- Curran, P.J.,** Hussong, A.M., & Bauer, D.J. (March, 2015). Advances in Integrative Data Analysis with Applications to the Study of Child and Adolescent Substance Use. Invited Colloquium, Department of Psychology and Neurosciences and the Center for Study of Adolescent Risk and Resilience, Duke University, Durham, NC.
- Curran, P.J.,** Hussong, A.M., & Bauer, D.J. (December, 2014). Integrative Data Analysis: A Novel Methodological Framework for Data Harmonization and Pooling. Invited Colloquium, Department of Psychology, University of North Carolina at Wilmington.
- Bauer, D.J. & **Curran, P.J.** (November, 2014). The Disjoint Between Measurement and Modeling in Longitudinal Research. Invited presentation at Advances in Multilevel Modeling for Educational Research: Addressing Practical Issues Found in Real-World Applications, University of Maryland, College Park, MD.
- Curran, P.J.,** Bauer, D.J., & Hussong, A.M. (October, 2014). A Moderated Nonlinear Factor Model for the Development of Commensurate Measures in Integrative Data Analysis. Invited webinar presentation for the Prevention Science Methodology Group, University of South Florida.
- Curran, P.J.** (February, 2014). Separating Person-Specific & Time-Specific Components of Developmental Change. Invited presentation for the Center for Developmental Science, University of North Carolina at Chapel Hill.
- Curran, P.J.,** Hussong, A.M., & Bauer, D.J. (May, 2013). Integrative Data Analysis: Past, Present, and Future. Invited presentation sponsored by the National Cancer Institute, Behavioral Research Program, Science of Research and Technology Branch, Bethesda, MD.
- Curran, P.J.,** Hussong, A.M., & Bauer, D.J. (April, 2012). The Application of Integrative Data Analysis to the Study of Adolescent Substance Use. Invited presentation for Center of Alcohol and Addiction Studies, Brown University.
- Curran, P.J.,** Bauer, D.J., & Hussong, A.M. (February, 2012). Integrative Data Analysis: The Simultaneous Analysis of Multiple Data Sets. Invited presentation for the National Cancer Institute, Division of Cancer Control and Population Sciences.
- Hussong, A. M., **Curran, P. J.**, & Bauer, D. J. (2011, April). Using integrative data analysis to study child development. An invited paper presented at biennial meeting of the Society for Research on Child Development in Methodological Issues in Developmental Science. Montreal, Canada.
- Hussong, A. M., & **Curran, P.J.** (2011, February). Studying the development of drug abuse through integrative data analysis. An invited presentation to the National Institute on Drug Abuse. Bethesda, MD.
- Bauer, D.J., **Curran, P.J.**, & Hussong A.M. (March, 2010). Toward a Cumulative Psychological Science: Integrative Data Analysis. Invited presentation for the Department of Psychology, Brigham Young University.
- Curran, P.J.,** & Hussong, A.M. (2009, October). The Application of Integrative Data Analysis to the Study of Developmental Processes. Colloquium presented to the Center for the Analysis of Pathways from Childhood to Adulthood, Institute for Social Research, University of Michigan.
- Curran, P.J.** (June, 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, 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, UNC 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, Oct 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.

## **University Teaching**

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- Spring, 2023:** PSYC845: Longitudinal Structural Equation Modeling (graduate)
- Fall, 2022:** PSYC844: Structural Equation Modeling (graduate)
- Spring, 2022:** PSYC532H: Quantitative Psychology (undergraduate)
- Fall, 2021:** PSYC843: Factor Analysis (graduate)
- Spring, 2021:** PSYC845: Longitudinal Structural Equation Modeling (graduate)

**Spring, 2021:** PSYC847: Advanced Topics in Quantitative Psychology (graduate)  
**Fall, 2020:** PSYC844: Structural Equation Modeling (graduate)  
**Fall, 2019:** PSYC847: Advanced Topics in Quantitative Psychology (graduate)  
**Fall, 2019:** PSYC532: Quantitative Psychology (undergraduate)  
**Spring, 2019:** PSYC845: Longitudinal Structural Equation Modeling (graduate)  
**Fall, 2018:** PSYC844: Structural Equation Modeling (graduate)  
**Spring, 2016:** PSYC859: Quantitative Research Methods (graduate)  
**Fall, 2015:** PSYC830: Statistical Methods in Psychology I: (graduate)  
**Spring, 2015:** PSYC845: Latent Curve Modeling (graduate)  
**Spring, 2014:** PSYC844: Structural Equation Modeling (graduate)  
**Fall, 2013:** PSYC532H: Honors Quantitative Psychology (undergraduate)  
**Fall, 2012:** PSYC781: Consortium On Human Development (graduate)  
**Spring, 2012:** PSYC845: Structural Equation Modeling (graduate)  
**Fall, 2010:** PSYC532H: Honors Quantitative Psychology (undergraduate)  
**Spring, 2010:** PSYC845: Latent Curve Modeling (graduate)  
**Fall, 2009:** PSYC499: Quantitative Psychology (undergraduate)  
**Fall, 2008:** PSYC210: Statistical Principles in Psychological Research (undergraduate)  
**Spring 2008:** PSYC845: Latent 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)

## **Supervised Pre-Doctoral and Post-Doctoral NIH Fellowships**

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Bainter, S. (2014-2017). A Novel Application of Bayesian Methods for Modeling Substance Use Trajectories. Pre-doctoral Individual National Research Service Award. National Institute of Drug Abuse.

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.

Bedford, R. (2015-2016). Center for Developmental Science, Visiting International Post-doctoral Scholar from King's College, London, University of North Carolina at Chapel Hill.

Biesanz, J. (1999-2001). Center for Developmental Science, Post-doctoral Institutional National Research Service Award, NICHD T32, University of North Carolina at Chapel Hill.

Houts, R. (1999-2000). Center for Developmental Science, Post-doctoral Institutional National Research Service Award, NICHD T32, University of North Carolina at Chapel Hill.

Howard, Andrea (2010-2013). Post-doctoral Research Fellow and Research Assistant Professor, Developmental and Quantitative Psychology, University of North Carolina at Chapel Hill.

McGinley, J. (2012-2014). Evaluating existing and innovative models for adolescent substance use data. Pre-doctoral Individual National Research Service Award (F31). National Institute of Drug Abuse.

- Obeidat, K. (2007-2009). Post-doctoral Research Fellow, Developmental and Quantitative Psychology, University of North Carolina at Chapel Hill.
- Preacher, K. (2003-2006). Longitudinal Factorial Invariance. Post-doctoral Individual National Research Service Award. National Institute of Drug Abuse.
- Schaper, Andrew (2014-2015). Center for Developmental Science, Post-doctoral Institutional National Research Service Award, NICHD T32, University of North Carolina at Chapel Hill (co-advised with Daniel Bauer).
- 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.

## Current Funding

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- FAIN 2041192** (Curran & Payne, co-PIs) 8/1/2021-7/31/2024 1 Academic Month  
National Science Foundation \$465,738  
Title: Implicit Bias: Separating Person and Context  
Role: Co-Principal Investigator  
Goals: Implicit racial bias has become an extraordinarily influential idea. Recent protests over police violence toward Black citizens have led many leaders and organizations to commit to making changes, but there is a great deal of uncertainty over what to do. This project aims to understand the joint and interactive effects of individuals embedded within a given context.
- 1UM1DA049394** (Curran, sub-con PI) 5/20/2019-3/31/23 1 Academic Month  
National Institute on Drug Abuse \$240,469  
Title: NIDA Cooperative Agreement 1UM1DA049394 with HEALing Communities Parent Project  
Role: Principal Investigator  
Goals: Support data center with design and implementation of integrative data analysis of newly captured data stemming from the parent project overseen by RTI International.

## Past Funding

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- R01AG057800-01** (Yang, PI) 09/01/17-05/22 0.6 Academic Months  
National Institute on Aging \$2,602,516  
Title: Life Course Process of Alzheimer's Disease: Sex Difference and Biosocial Mechanisms  
Role: Co-Investigator  
Goals: The goal of this project is to address two fundamental problems in population research on Alzheimer's Disease (AD): sex disparities in cognitive decline with aging and a need for understanding the interplay of social and biological pathways that generate and sustain AD disparities.
- R305A170637** (Ornstein, Subcontract PI) 12/6/17-6/30/21 0.5 summer months  
Institute of Education Sciences \$257,754 Total Annual  
(Subcontract from UNC-Greensboro) \$171,946 Total Annual Directs  
Title: Student learning as a function of exposure to teachers' use of cognitive processing language during instruction  
Role: Co-Investigator  
Goals: This study is designed to make study the linkages between CPL and children's cognitive and academic outcomes, as well as child-, home-, and teacher-level moderators of these associations.

**1R01DA034636-01A1** (Bauer, PI) 9/1/13-5/31/19 21% academic  
National Institute on Drug Abuse \$2,553,540 33% summer

Title: Harmonizing Substance Use and disorder measures to facility multi-study analysis.

Role: Co-Investigator

Goals: The goal of this study is to use both computer simulation and primary data collection to develop, evaluate, and apply novel statistical and design methodologies for harmonizing measures of substance use for integrative data analysis within multi-study settings.

**R305A120402** (Ornstein, PI) 7/1/2012-6/30/2016 1.0 Summer  
United States Department of Education \$272,670

Title: Developing a teacher-based intervention involving memory-relevant language during instruction

Role: Co-Investigator

Goals: This project randomly assigns kindergarten and first grade children to treatment and control classroom settings to evaluate study deflections in developmental trajectories of memory and recognition.

**R01DA015398** (Curran & Hussong, co-PI) 2/1/09-11/30/13 21% academic  
National Institute on Drug Abuse \$1,323,111 33% summer  
Minority Supplement R01DA015398-06S1 \$125,703

Title: Internalizing pathways to drug use: A multi-sample analysis

Role: co-Principal Investigator

Goals: The goals of this study are to use methods of integrative data analysis to combine data from three existing longitudinal studies to study developmental trajectories of internalizing symptomatology and substance use across the first 3 decades of life in a high-risk sample of children of alcoholic parents.

**R01-DA13148A2** (Curran, PI) 7/15/05-4/30/12 21% academic  
National Institute on Drug Abuse \$1,148,297 66% summer

Title: Measurement Models in Latent Curve Analysis

Role: Principal Investigator

Goals: The goals of this project are to design, evaluate, and disseminate longitudinal measurement models to be used in latent curve models. Analytical emphasis is on the inclusion of categorical and continuous measurement scales, particularly as applied to longitudinal studies of adolescent drug and alcohol use.

**R01-DA13459** (Ennett, PI) 08/00 to 05/05 5% academic  
National Institute of Drug Abuse \$1,349,056

Title: The Context of Adolescent Substance Use Role: Co-Investigator

Goals: The purpose of this study is to examine the interrelated influences of individual and contextual factors on adolescent alcohol, tobacco, and other drug use.

**R01-DA015398** (Hussong, PI) 7/1/02-4/30/06 18% academic  
National Institute on Drug Abuse \$1.2 million 33% summer

Title: Stress and Substance Use in Children of Alcoholics

Role: Co-Investigator

Goals: This project conducted secondary data analysis of three existing longitudinal data sets to test questions about risk and protective factors for substance use in children with an alcohol parent across the lifespan.

**R01DA13148A** (Curran, PI) 7/1/99-6/31/04 32% academic  
National Institute on Drug Abuse \$718,361 66% summer

Title: Innovative Latent Curve Models of Adolescent Drug Use

Role: Principal Investigator

Goals: The goals of this project are to (1) develop new quantitative methods for studying individual differences in developmental trajectories over time; and (2) apply these new methods to an existing longitudinal data set to study the developmental relation between conduct problems and substance use in adolescents.

## **Departmental, University and National Service**

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### **Departmental**

**Member**, Promotion review committee for Dr. Katie Gates, Fall 2023  
**Member**, VITAE search committee, Fall 2021  
**Member**, Promotion review committee for Dr. Patrick Harrison, Fall 2021  
**Member**, Promotion review committee for Dr. Montserrat Navarro Thiele, Fall 2020  
**Member**, Department Working group on PSYC210/270, Spring 2019  
**Member**, Post-tenure faculty review committee, Fall 2018-present  
**Member**, *Mentoring committee for Dr. Patrick Harrison, Fall 2018-present*  
**Member**, search committee for Dr. Nicole Else-Quest, Fall 2018  
**Member**, promotion committee for Dr. Charlie Wiss, Fall 2018  
**Organizer**, Quantitative Forum Speaker Series, 2018-2019  
**Chair**, promotion committee for Dr. Kurt Gray, Fall 2016  
**Chair**, search committee for Quantitative Methodologist, Center for Developmental Science, 2016  
**Member**, Departmental Committee on Diversity, 2015-2017  
**Director, Quantitative Program**: July 2010-present  
**Member**, search committee for Department Manager, Fall 2015  
**Member**, review committee for Stephenson Award Applications, 2014, 2015, 2016  
**Chair**, Promotion committee for Dr. Charlotte Boettiger, Fall 2014  
**Member**, Baughman Dissertation Award Review Committee, Spring 2014  
**Co-Chair**, Departmental Committee on Diversity, 2014-2015  
**Member**, Departmental Search Committee for Grants Manager, Spring 2014  
**Member**, Departmental Search Committee for Accounting Manager, Spring 2014  
**Author**, Departmental Faculty Research Interest Survey and Report, Fall, 2013  
**Member**, Promotion review committee for Dr. Eleanor Seaton, Fall 2013  
**Chair**, Promotion review committee for Dr. Daniel Bauer, Fall 2012  
**Chair**, Center for Developmental Science Consortium Organizer, Fall 2012  
**Author**, Department annual SACS Accreditation Report, Fall 2011  
**Member**: Third year review committee for Dr. Enrique Neblett, 2010  
**Acting Director, Quantitative Program**: Fall, 2008  
**Director of Research Services, Department of Psychology**, 2003-2006  
**Chair, Department of Psychology Colloquium Committee**: 2000- 2003  
**Chair, Quantitative Colloquium Committee**: 1999-2004  
**Co-Chair: Departmental Research Retreat Planning Committee**: Fall, 1999  
**Member: Search Committee to replace Brigid Poole, Grants Administrator**: Spring 2009  
**Member: Developmental Area Faculty Search Committee**: Spring, 2008  
**Member: Promotion review committee for Dr. Rita Fuchs-Lokensgard**: Fall, 2007  
**Member: Promotion review committee for Dr. Abigail Panter**: Fall, 2007  
**Member: Promotion review committee for Dr. Eric Youngstrom**: Fall, 2007  
**Member: Faculty mentoring committee for Dr. Sy-Miin Chow**: 2007-present  
**Member: Departmental Internal Review Board Committee**: 2007-2010  
**Member: Departmental Faculty Merit Review Committee**: Spring, 2008  
**Member: Departmental Space Committee**: 2001-2006  
**Member: Chair Advisory Committee**: 2003-2004  
**Member: Curriculum Revision Committee**: 2002-2004  
**Member: Chair Search Committee**: Spring, 2004  
**Participant: Minority Recruitment Day**: Fall, 1999-present

## University

**Member**, Vice Chancellor's Committee on Race Neutral Undergraduate Admissions, 2016-present  
**Departmental Diversity Liaison**, Departmental Liaison to the College of Arts and Sciences Committee on Diversity Faculty Initiatives, Spring 2014-2016  
**Member**, University of North Carolina Data@Carolina Data Sciences Initiative, 2015-present  
**Co-Chair**, Working Committee on Minority Faculty Hiring and Retention, 2013-2014  
**Invited Presenter**, Workshop on Inquiry-Based Teaching, Office of Undergraduate Research, April 2014.  
**Member**: University Teaching Awards Committee: 2013-2015  
**Chair**: Committee on the Status of Women in Science: 2011-2013  
**Member**: Committee on the Status of Women in Science: July 2010-2013  
**Member**: The Chancellor's Child Care Advisory Committee: November 2010-2012  
**Member**: Girls in Science Task Force, 2009-2010  
**Chair**: Social Sciences Review Committee, University Research Council: Fall, 2000-2003  
**Chair**: Applied Statistics Working Group sponsored by The Odum Institute, 2000 to 2004  
**Member**: UNC Girls in Science Task Force, 2009-2012  
**Member**: Advisory Committee for Academic Affairs & Cancer Center Research: Spring, 2000  
**Member**: Odum Institute Research Scientist Search Committee: Fall, 2000

## National

**Member**: Site visit team, Department of Psychology, University of Minnesota, Spring 2023  
**Member**: Site visit team, Department of Psychology, University of Notre Dame, Fall 2018  
**Member**: Expert Advisory Panel, National Institutes of Health, Pathways to Prevention, 2015-2016  
**Member**: Expert Advisory Board Member, Science of Research and Technology Branch, National Cancer Institute, 2012-2015.  
**Guest Editor**: Special issue of *Psychological Methods* published in 2009  
**Associate Editor**: *Psychological Methods*: 2004 to 2007  
**Editorial Board Membership**: *American Psychologist*, *Advances in Methods and Practices in Psychological Science*, *Archives of Scientific Psychology*, *Multivariate Behavioral Research*; *Structural Equation Modeling: An Interdisciplinary Journal*; *Taylor & Francis Multivariate Applications Book Series*; *Psychological Assessment*; *Developmental Psychology*; *Psychological Methods*; *Health Psychology*; *Journal of Educational and Behavioral Statistics*.  
**Elected Member-at-Large**: Executive Committee of American Psychological Association Division 5 (Evaluation, Measurement, & Statistics): 2003-2006  
**Chair**, APA Division 5 Awards Committee: 2005-2006  
**Chair**: APA Division 5 Program Committee: 2002-2003  
**Member**: APA Task Force Committee on Cluster Programming: 2003

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Version: September, 2023