CURRICULUM VITAE
Kenneth A. Bollen
September 2023

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CURRENT POSITIONS

2015-   Henry Rudolph Immerwahr Distinguished Professor, Department of Psychology
          and Neuroscience & Department of Sociology, University of North
                Carolina at Chapel Hill (UNC-Chapel Hill).

2015-   Methodology Unit, Carolina Population Center, UNC-Chapel Hill.

1995-   Fellow, Carolina Population Center, UNC-Chapel Hill.

1980-   Lecturer for Inter-university Consortium for Political and Social Research (ICPSR)
          Summer Training Program in Advanced Statistical Techniques. University
                of Michigan, Ann Arbor, MI.

EDUCATION

1977   Ph.D. in Sociology, Brown University, Providence, Rhode Island.

1975   M.A. in Sociology, Brown University, Providence, Rhode Island.

1973   B.A. Drew University, Madison, NJ
                Major: Sociology   Minor: Mathematics

HONORS, AWARDS, AND RECOGNITIONS

2023   Academic Ace Award 2024 (for outstanding contribution to the global community as a distinguished academician). Woxsen University, Hyderabad, India.

2022   Awarded *James McKeen Cattell Fund Fellowship for 2022-2023*. James McKeen Cattell Fund and Association for Psychological Science.

2019   *doctor honoris causa* (honorary doctorate), Uppsala University, Uppsala, Sweden.

2018   *Career Award for Lifetime Achievement*. Psychometric Society.

2017   Elected Fellow of the Association of Psychological Science.

2017   Visiting Scholar, Harvard University, Cambridge, MA.

2016-2018   Chair of National Science Foundation (NSF) Advisory Committee for Social, Behavioral and Economic Sciences (SBE).

2015   Awarded *Senior Visiting Fellowship* at the Institute of Advanced Studies of the University of Bologna, Bologna, Italy, August 28 – October 1, 2015.

2015   Elected President, Society of Multivariate Experimental Psychology (SMEP).

2014-2015   *Excellence in Teaching*, 2014-2015. Annual Award by Sociology Graduate Students, UNC-Chapel Hill.

2014-2015   *RTI Visiting Scholar Award*, RTI International, Research Triangle Park, NC.

2014   Elected Member, Society of Multivariate Experimental Psychology (SMEP).

2011   Elected Fellow, American Statistical Association.

2010-2012   Chair of the Section on Social, Economic, and Political Sciences of the American Association for the Advancement of Science.

2010   Visiting Fellow at the Institute of Education Sciences. University of California, Berkeley, April 2010.

2009   *Distinguished Teaching Award* for Post-Baccalaureate Instruction.
University-wide competition.   UNC-Chapel Hill.

2008   Elected Fellow, American Association for the Advancement of Science (AAAS).

2007   Perreria, Deeb-Sossa, Harris, K., & Bollen, K. A. (2005) Honorable Mention for
the 2007 Best Publication in the Sociology of Mental Health by the
Mental Health Section of the American Sociological Association.

2005   Bollen (1980), Bollen (1983), & Bollen and Phillips (1982) named as ASR
Greatest Hits by Jerry Jacobs, editor of American Sociological Review
(ASR). The list includes the most cited papers in the history of ASR since
its inception in 1936. See Publication list below for complete citation.

2002   Named one of the World's Most Cited Authors in the General Social Science
literature by the Institute for Scientific Information (ISI) for 1981-1999.

2002   Henry Rudolph Immerwahr Distinguished Professor, UNC-Chapel Hill.

2000   *Paul F. Lazarsfeld Memorial Award for Distinguished Contributions in the Field
of Sociological Methodology*. August 2000. American Sociological
Association (Methodology Section), Washington, DC.

1999-2000   *Mentoring Award*, 1999-2000. Sociology Graduate Student Association. UNC-
Chapel Hill.

1996-2001   Zachary Smith Professorship, UNC-Chapel Hill.

1993-1994   Fellowship Award, Center for Advanced Study in the Behavioral Sciences.
Stanford, California. Notification May 1990, Fellow 1993-1994.

1988-1989   *Excellence in Teaching*, 1988-89. Third Annual Award by Sociology Graduate
Students, UNC-Chapel Hill.

1989-   Sociological Research Association. Elected member.

1986-1987   *Excellence in Teaching*, 1986-87. Inaugural Annual Award by Sociology
Graduate Students, UNC-Chapel Hill.

CURRENT GRANT SUPPORT (past grants listed later)

Bollen, K.A. (PI). Causal Inference Methods: Comparisons and Synthesis. James McKeen Cattell Fund from July 1, 2022 to June 30, 2023.

Frankenberg, E. (PI), K.A. Bollen (Key Participant). Carolina Population Center. NIH National Institute of Child Health and Human Development (NICHD). July 11, 2020 to February 28, 2025. (5-P2C-HD050924-16-17).

Frankenberg, E. (PI), K.A. Bollen (Key Participant). Carolina Center for Population Aging and Health. NIH National Institute on Aging (NIA). July 1, 2020 to June 30, 2025. (1-P30-AG066615-01).

OTHER PROFESSIONAL EXPERIENCE

2020-2021   Co-Chair, Program on *Data Science in the Social and Behavioral Sciences*, National Science Foundation, The Statistical and Applied Mathematical Sciences Institute (SAMSI). University of North Carolina-Chapel Hill, Duke University, North Carolina State University.

Interdisciplinary program of national and international participants. Thirteen working groups regularly met to share knowledge across disciplines and to advance statistical and methodological work on network analysis, digital data problems, and causal modeling techniques.

2012-2015   Member of National Science Foundation (NSF) Advisory Committee for Social, Behavioral and Economic Sciences (SBE).

Provides advice, recommendations, and oversight to the SBE Directorate on support for research, education, and human resources.

2013-2015   Appointed American Sociological Association (ASA) representative to the American Association for the Advancement of Science (AAAS).

2013-2015   Member of National Science Foundation (NSF) Advisory Committee for Cyberinfrastructure (ACCI).

Provides advice, recommendations, and oversight to the NSF Office of Cyberinfrastructure on support for research, education, and human resources.

2002- 2014   Henry Rudolph Immerwahr Distinguished Professor, Department of Sociology, University of North Carolina, Chapel Hill, NC (UNC-Chapel Hill).

1993-2014   Member of Statistical Core, Carolina Population Center, UNC-Chapel Hill.

2012-2014   Member of Subcommittee for Support for the Statistical Sciences at NSF

    NSF Directorate for Mathematical and Physical Sciences committee that assessed and made recommendations for the statistical sciences at NSF.

2009-2014   Adjunct Professor of Statistics and Operations Research, UNC-Chapel Hill.
(1996-2006)

2000-2010   Director, H.W. Odum Institute for Research in Social Science, UNC-Chapel Hill.

    Founded in 1924, the Odum Institute is the world's oldest multidisciplinary university institute for the social sciences. It provides training and consulting in statistics, survey methodology, and qualitative methods. It hosts one of largest social science data archives and provides external funding support.

2009-2014   Member of Advisory Board for the Penn State Social Science Research Institute (SSRI), Pennsylvania State University, University Park, Pennsylvania.

2008- 2016   Member of Board of Trustees of National Institute of Statistical Science (NISS), Research Triangle Park, North Carolina.

2006-2010   Member of Advisory Board for Social Science Research Institute, Duke University, Durham, North Carolina.

2004-2007   Electorate Nominating Committee of AAAS Section on Social, Economic, and Political Sciences (K).

2004-2005   Chair, Program on *Latent Variables in the Social Sciences*, The Statistical and Applied Mathematical Sciences Institute (SAMSI) National Institute of Statistical Sciences, Research Triangle Park, NC.

    Yearlong interdisciplinary program of national and international participants. Six working groups regularly met to share knowledge across disciplines and to advance statistical and methodological work on latent variable modeling.

2004   Founding member of core team of five who launched the Citizen-Soldier Support Program to help family and relatives of the National Guard and Reserve.   Based at the Odum Institute for Research in Social Science at UNC-Chapel Hill.

2003   Co-founded the Certificate Program in Survey Methodology (CPSM) based at Odum Institute for Research in Social Science at UNC-Chapel Hill.

1997-2000   Director of Graduate Studies, Department of Sociology, UNC-Chapel Hill.

1996-2001   Zachary Smith Professor of Sociology, UNC-Chapel Hill.

1995-2000   Elected Term on Interuniversity Consortium for Political and Social Research (ICPSR) Council. University of Michigan, Ann Arbor, MI.

Council represents over 300 university/college members of ICPSR.

1993-1995   Chair, Methodology Section, American Sociological Association.

1991-1993   Member of Sociology Panel, National Science Foundation, 1991-1993.

1991-1995   Social Science Analyst, EVALUATION Project - USAID, Carolina Population Center, UNC-Chapel Hill.

1989-96   Professor, Department of Sociology, UNC-Chapel Hill.

1989-1991   Member, Methodology Council, American Sociological Association.
1985-1989   Associate Professor, Department of Sociology, UNC-Chapel Hill.

1982-1985   Assistant Professor, Department of Sociology, Dartmouth College, Hanover,NH

1981,1984,   ICPSR Summer Training Program Planning Committee, University
1987,1990-   of Michigan.

1981-1985   Consultant for Institute of Gerontology, Wayne State University, Detroit, MI.

1981-1982   Staff Research Scientist. Societal Analysis Department, General Motors Research Laboratories, Warren, MI.

Member of Interdisciplinary research group. Responsible for design and implementation of many projects.

1977-1981   Associate Senior to Senior Research Scientist, Societal Analysis Department, General Motors Research Laboratories. (See above)

BOOKS

Bollen, K.A. and P. J. Curran. (2006). *Latent Curve Models: A Structural Equation Perspective*. Wiley Series in Probability and Mathematical Statistics. New York: Wiley, 285 pages.

Bollen, K.A. and J.S. Long (eds). (1993). *Testing Structural Equation Models*. Newbury Park, CA: Sage, 320 pages.

Bollen, K. A. (1989). *Structural Equations with Latent Variables*. Wiley Series in Probability and Mathematical Statistics. New York: Wiley, 514 pages.

Bollen, K.A. (2021) Chinese edition of *Structural Equations with Latent Variables*. Translated by Lianfei Zhao. Chongqing:Chongqing University Press.

PUBLISHED PAPERS

Bollen, K.A. (forthcoming). Causal Inference with Binary Treatments from Randomization vs. Binary Treatments from Categorization. *Psychological Methods*.

Ye, Ai and **Bollen, K.A.** (forthcoming). Path and Direction Discovery in Individual Dynamic Factor Models: A Reguslarized Hybrid Unified Structural Equation Modeling with Latent Variables." *Multivariate Behavioral Research*.

Bollen, K.A., Lilly, A., Luo, L. (forthcoming). Selecting Scaling Indicators in Structural Equation Models (SEMs). *Psychological Methods*.

Bollen, K.A. and Lilly, A. (forthcoming). Continuity and Change in Methodology in Social Forces. *Social Forces*.

Bollen, K.A., Fisher, Z., Lilly, A., Brehm, C., Luo, L., Martinez, A., Ye, A. (forthcoming). Fifty Years of Structural Equation Modeling: A History of Generalization, Unification, and Diffusion. *Social Science Research*.

Giordano, M., **Bollen, K.A.**, and S. Jin. (2022). Estimating and Testing Random Intercept Multilevel Structural Equation Models with Model Implied Instrumental Variables. *Structural Equation Modeling* 29 (4): 584-599*.

Ankan, Ankur, Wortel, Inge, **Bollen, K.A.**, and Textor, Johannes. (2023). Combining Graphical and Algebraic Approaches for Parameter Identification in Latent Variable Structural Equation Models. *Proceedings of the 26th International Conference on Artificial Intelligence and Statistics.*

Bollen, K. A., Fisher, Z. F., Giordano, M. L., Lilly, A. G., Luo, L., & Ye, A. (2022). An introduction to model implied instrumental variables using two stage least squares (MIIV-2SLS) in structural equation models (SEMs). *Psychological Methods, 27*(5), 752-772. https://doi.org/10.1037/met0000297

Ziobrowski, H. N., Holt-Gosselin, B., Petukhova, M. V., King, A. J., Lee, S., House, S. L., Beaudoin, F. L., An, X., Stevens, J. S., Zeng, D., Neylan, T. C., Clifford, G. D., Linnstaedt, S. D., Germine, L. T., **Bollen, K. A.**, Rauch, S. L., Haran, J. P., Storrow, A. B., Lewandowski, C., Musey, P. I., Hendry, P. L., Sheikh, S., Jones, C. W., Punches, B. E., Kurz, M. C., Swor, R. A., Hudak, L. A., Pascual, J. L., Seamon, M. J., Harris, E., Pearson, C., Merchant, R. C., Domeier, R. M., Rathlev, N. K., O'Neil, B. J., Sergot, P., Sanchez, L. D., Bruce, S. E., Miller, M. W., Pietrzak, R. H., Joormann, J., Barch, D. M., Pizzagalli, D. A., Harte, S. E., Elliott, J. M., Ressler, K. J., McLean, S. A., Koenen, K. C., Kessler, R.C. (2023). Childhood adversities and risk of posttraumatic stress disorder and major depression following a motor vehicle collision in adulthood. *Epidemiology and Psychiatric Sciences*, *32*(e1), 1-11.

Beaudoin FL, An X, Basu A, Ji Y, Liu M, Kessler RC, Doughtery RF, Zeng D, **Bollen KA**, House SL, Stevens JS, Neylan TC, Clifford GD, Jovanovic T, Linnstaedt SD, Germine LT, Rauch SL, Haran JP, Storrow AB, Lewandowski C, Musey PI, Hendry PL, Sheikh S, Jones CW, Punches BE, Kurz MC, Swor RA, Murty VP, McGrath ME, Hudak LA, Pascual JL, Datner EM, Chang AM, Pearson C, Peak DA, Merchant RC, Domeier RM, Rathlev NK, O'Neil BJ, Sergot P, Sanchez LD, Bruce SE, Baker JT, Joormann J, Miller MW, Pietrzak RH, Barch DM, Pizzagalli DA, Sheridan JF, Smoller JW, Harte SE, Elliott JM, Koenen KC, Ressler KJ, McLean SA. (forthcoming) Use of serial smartphone-based assessments to characterize diverse neuropsychiatric symptom trajectories in a large trauma survivor cohort. *Translational Psychiatry*.

Straus LD, An X, Ji Y, Cakmak AS, Richards A, Clifford GD, Liu M, Zeng D, House SL, Beaudoin FL, Stevens JS, Linnstaedt SD, Germine LT, **Bollen KA**, Rauch SL, Haran JP, Storrow AB, Lewandowski C, Musey PI Jr., Hendry PL, Sheikh S, Jones CW, Punches BE, Kurz MC, Swor RA, Hudak LA, Seamon MJ, Datner EM, Chang AM, Pearson C, Peak DA, Merchant RC, Domeier RM, Rathlev NK, O'Neil BJ, Sergot P, Sanchez LD, Bruce SE, Miller MW, Pietrzak RH, Joormann J, Barch DM, Pizzagalli DA, Sheridan JF, Harte SE, Elliott JM, Kessler RC, Ressler KJ, Koenen KC, McLean SA, Neylan TC. (forthcoming) Wrist-wearable data may help identify pain, sleep, and anxiety outcomes after traumatic stress exposure. *JAMA Psychiatry*.

Punches BE, Stolz U, Freiermuth CE, Ancona RM, McLean SA, House SL, Beaudoin FL, An X, Stevens JS, Zeng D, Neylan TC, Clifford GD, Jovanovic T, Linnstaedt SD, Germine LT, **Bollen KA**, Rauch SL, Haran JP, Storrow AB, Lewandowski C, Musey PI Jr, Hendry PL, Sheikh S, Jones CW, Kurz MC, Gentile NT, McGrath ME, Hudak LA, Pascual JL, Seamon MJ, Harris E, Chang AM, Pearson C, Peak DA, Merchant RC, Domeier RM, Rathlev NK, O'Neil BJ, Sanchez LD, Bruce SE, Pietrzak RH, Joormann J, Barch DM, Pizzagalli DA, Smoller JW, Luna B, Harte SE, Elliott JM, Kessler RC, Ressler KJ, Koenen KC, Lyons MS. (2022). Predicting at-risk opioid use three months after ed visit for trauma: Results from the AURORA study.*PLoS One.* 2022 Sep 23;17(9):e0273378. doi: 10.1371/journal.pone.0273378. PMID: 36149896; PMCID: PMC9506640.

Short NA, van Rooij SJH, Murty VP, Stevens JS, An X, Ji Y, McLean SA, House SL, Beaudoin FL, Zeng D, Neylan TC, Clifford GD, Linnstaedt SD, Germine LT, **Bollen KA**, Rauch SL, Haran JP, Lewandowski C, Musey PI, Hendry PL, Sheikh S, Jones CW, Punches BE, Swor RA, McGrath ME, Hudak LA, Pascual JL2, Seamon MJ, Datner EM, Pearson C, Peak DA, Merchant RC, Domeier RM, Rathlev NK, O'Neil BJ, Sergot P, Sanchez LD, Bruce SE, Pietrzak RH, Joormann J, Barch DM, Pizzagalli DA, Sheridan JF, Smoller JW, Harte SE, Elliott JM5, Kessler RC, Koenen KC, Jovanovic T. (forthcoming). Anxiety Sensitivity as a Transdiagnostic Risk Factor for Trajectories of Adverse Posttraumatic Neuropsychiatric Sequelae in the AURORA Study. *Journal of Psychiatric Research*.

Jones WC, An X, Ji Y, Liu M, Zeng D, House SL, Beaudoin FL, Stevens JS, Neylan TC, Clifford GD, Jovanovic J, Linnstaedt SD, Germine GT, **Bollen K.A.**, Rauch SL, Haran JP, Storrow AB, Lewandowski C, Musey Jr. PI, Hendry PL, Sheikh S, Punches BE, Lyons MS, Kurz MC, Swor RA, McGrath ME, Hudak LA, Pascual JL, Seamon MJ, Datner EM, Harris E, Chang AM, Pearson C, Peak DA, Merchant RC, Domeier RM, Rathlev NK, O'Neil BJ, Sergot P, Sanchez LD, Bruce SE, Miller MW, Pietrzak RH, Joormann J, Barch DM, Pizzagalli DA, Sheridan JF, Smoller JW, Harte SE, Elliott JM, Koenen KC, Ressler KJ, Kessler RC, McLean SA. Derivation and validation of a brief ED-based prediction tool for posttraumatic stress after motor vehicle collision. (forthcoming). *Annals of Emergency Medicine*.

Ye, A. and **Bollen, K.A.** (2022). Can We Distinguish Between Different Longitudinal Models for Estimating Nonlinear Trajectories? *Structural Equation Modeling* 29, 57-69.

Bollen, K.A., Gutin, I., Halpern, C.T., and Harris, K.M. (forthcoming). Subjective health in adolescence: comparing the reliability of contemporaneous, retrospective, and proxy reports of overall health. *Social Science Research*.

Bollen, K.A. and Gutin, I. (2021). Trajectories of Subjective Health: Testing Longitudinal Models for Self-rated Health from Adolescence to Midlife. *Demography* 58(4):1547-1574.

Tanriverdi B, GregoryDF, Olino TM, Ely TD, Harnett NG, van Rooij SJH, Lebois LAM, Seligowski AV, Jovanovic T, Ressler KJ, House SL, Beaudoin FL, An X, Neylan TC, Clifford GD, Linnstaedt SD, Germine LT, **Bollen KA**, Rauch SL, Haran JP, Storrow AB, Lewandowski C, Musey PI, Hendry PL, Sheikh S, Jones CW, Punches BE, Kurz MC, McGrath ME, Hudak LA, Pascual JL, Seamon MJ, Datner EM, Pearson C, Domeier RM, Rathlev NK, O'Neil BJ, Sanchez LD, Bruce SE, Miller MW, Pietrzak RH, Joormann J, Barch DM, Pizzagalli DA, Sheridan JF, Smoller JW, Harte SE, Elliott JM, McLean SA, Kessler RC, Koenen KC, Stevens JS, Murty VP. (2022). Hippocampal threat reactivity interacts with physiological arousal to predict PTSD symptoms. *Journal of Neuroscience*.

Jin, S., Yang-Wallentin, F., and **Bollen, K.A.** (2021). A unified model-implied instrumental variable approach for structural equation modeling with mixed variables. P*sychometrika 86(2): 564-595.* doi: [10.1007/s11336-021-09771-4](10.1007/s11336-021-09771-4)

Fisher, Z. and **Bollen, K.A.** (2020). An instrumental variable estimator for mixed indicators: Analytic derivatives and alternative parameterizations. *Psychometrika*. 85(3), 660–683. https://doi.org/10.1007/s11336-020-09721-6

Joormann J, Ziobrowski HN, King A, Lee S, Sampson N, House SL, Beaudoin FL, An X, Stevens JS, Zeng D, Neylan TC, Clifford GD, Linnstaedt SD, Germine LT, **Bollen KA**, Rauch SL, Haran JP, Storrow AB, Musey PI Jr., Hendry PL, Sheikh S, Jones CW, Punches BE, McGrath ME, Hudak LA, Pascual JL, Seamon MJ, Chang AM, Pearson C, Peak DA, Domeier RM, Rathlev NK, O'Neil BJ, Sanchez LD, Bruce SE, Miller MW, Pietrzak RH, Barch DM, Pizzagalli DA, Harte SE, Elliott JM, Koenen KC, McLean SA, Kessler RC. (forthcoming). Prior histories of posttraumatic stress disorder and major depression and their onset and course in the three months after a motor vehicle collision in the AURORA study. *Depression and Anxiety* 39(1): 56-70.

Ziobrowski HN, Kennedy CJ, Ustun B, House SL, Beaudoin FL, An X, Stevens JS, Zeng D, Neylan TC, Clifford GD, Jovanovic T, Linnstaedt SD, Germine LT, **Bollen, KA**, Rauch SL, Haran JP, Storrow AB, Lewandowski C, Musey PI Jr., Hendry PL, Sheikh S, Jones CW, Punches BE, Lyons MS, Murty VP, McGrath ME, Pascual JL, Seamon MJ, Datner EM, Chang AM, Pearson C, Peak DA, Jambaulikar G, Merchant RC, Domeier RM, Rathlev NK, O'Neil BJ, Sergot P, Sanchez LD, Bruce SE, Pietrzak RH, Joormann J, Barch DM, Pizzagalli DA, Sheridan JF, Harte SE, Elliott JM, Petukhova M, Sampson NA, Puac-Polanco V, Lee S, van Rooij SJ, Koenen KC, Ressler KJ, McLean SA, Kessler RC. (forthcoming) Development and validation of a model to predict posttraumatic stress disorder and major depression three months after a motor vehicle collision. *JAMA Psychiatry* 78(11), 1228-1237. https://doi.org/10.1001/jamapsychiatry.2021.2427

Bollen, K.A. and Rick H. Hoyle. (2023). Latent Variables in Structural Equation Models. Pages 97-109 in Rick H. Hoyle (ed) *Handbook of Structural Equation Modeling 2ⁿᵈ edition*. New York:Guilford Publications.

Buchbinder M, Brassfield ER, Tungate AT, Witkemper KD, D'Anza T, Lechner M, Bell K, Black J, Buchanan J, Reese R, Ho J, Reed G, Platt M, Riviello R, Rossi C, Nouhan P, Phillips CA, Martin SL, Liberzon I, Rauch SAM, **Bollen KA**, McLean SA. (2021). "I Still Feel So Lost": Experiences of Women Receiving SANE Care during the Year after Sexual Assault. *JACEP Open* Jul 3;2(4):e12464. doi: 10.1002/emp2.12464. PMID: 34263245; PMCID: PMC8254598..

Short N.A., Tungate A.T., **Bollen K.A.**, Sullivan J., D'Anza T., Lechner M., Bell K., Black J., Buchanan, J., Reese R., Ho J., Reed G., Platt M., Riviello R., Rossi C., Martin S.L., Liberzon I., Rauch, S.A.M., Kessler R.C., Nugent N., McLean S.A. (2022) Pain is common after sexual assault and posttraumatic arousal/reactivity symptoms mediate the development of new or worsening persistent pain. *PAIN* 163(1):e121-e128.

Seligowski AV, Steuber ER, Hinrichs R, Reda MH, Wiltshire CN, Wanna CP., Winters SJ, Phillips KA, House SL, Beaudoin FL, An X, Stevens JS, Zeng D, Neylan TC, Clifford GD, Linnstaedt SD, Germine LT, **Bollen KA**, Guffanti G, Rauch SL, Haran JP, Storrow AB, Lewandowski C, Musey PI Jr., Hendry PL, Sheikh S, Jones CW, Punches BE, Kurz MC, Murty VP, McGrath ME, Hudak LA, Pascual JL, Seamon MJ, Datner EM, Chang AM, Pearson C, Peak DA, Merchant RC, Domeier RM, Rathlev NK, O'Neil BJ, Sanchez LD, Bruce SE, Miller MW, Pietrzak RH, Joormann J, Barch DM, Pizzagalli DA, Sheridan JF, Luna B, Harte SE, Elliott JM, Koenen KC, Kessler RC, McLean SA, Ressler KJ, Jovanovic T. (forthcoming). A prospective examination of sex differences in posttraumatic autonomic functioning. *Neurobiology of Stress* August 2021.

Lechner M., Bell K, Short N.A., Martin S.L., Black J., Buchanan J.A., Reese R., Ho J.D., Reed G.D., Platt M., Riviello R., Rossi C., Nouhan P., Phillips C., **Bollen K.A.**, McLean S.A. (2021) Perceived Care Quality Among Women Receiving Sexual Assault Nurse Examiner Care: Results From a 1-Week Postexamination Survey in a Large Multisite Prospective Study. *Journal of Emergency Nursing* 47(3):449-458.

Harnett, N.G., van Rooij, S. J. H., Ely, T. D., Lebois, L. A. M., Murty, V. P., Jovanovic, T., Hill, S. B., Dumornay, N. M., Merker, J. B., Bruce, S. E., House, S. L., Beaudoin, F. L., An, X., Zeng., D., Neylan, T. C., Clifford, G. D., Linnstaedt, S., D., Germine, L. T., **Bollen, K. A.**, Rauch, S. L., Lewandowski, C., Hendry, P. L., Sheikh, S., Storrow., A.B., Musey Jr., P. I., Haran, J. P., Jones, C. W., Punches, B. E., Swor, R. A., McGrath, M. E., Pascual, J. L., Seamon, M. J., Mohiuddin, K., Chang, A. M., Pearson, C., Peak, D. A., Domeier, R. M., Rathlev, N. K., Sanchez, L. D., Pietrzak, R. H., Joorman, J., Barch, D. M., Pizzagalli, D. A., Sheridan, J. F.,

Harte, S. E., Elliott, J. M., Kessler, R. C., Koenen, K. C., McLean, S., Ressler, K. J. & Stevens, J. S., (2021). Prognostic neuroimaging biomarkers of trauma-related psychopathology: resting-state fMRI shortly after trauma predicts future PTSD and depression symptoms in the AURORA study. *Neuropsychopharmacol* 46, 1263–1271. https://doi.org/10.1038/s41386-020-00946-8.

Bollen, K.A. (2020). When good loadings go bad: Robustness in factor analysis. *Structural Equation Modeling.* 27:4, 515-24.

Brandt, H., Umbach, N., Kelava, A., & **Bollen, K. A.** (2020). Comparing estimators for latent interaction models under structural and distributional misspecifications. *Psychological Methods*. 25:3, 321-45, http://dx.doi.org/10.1037/met0000231

Gates, K.M., Fisher, Z., and **Bollen, K. A.** (2020). Latent variable GIMME using model implied instrumental variables (MIIVs). *Psychological Methods* 25:2, 227-242 https://doi.org/10.1037/met0000229.

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Cermak, G. and **K. A. Bollen**. (1982). The Relationship Between Judged Visibility and Judged Air Quality: Results of a Survey. *Journal of the Air Pollution Control Association* 32:86-88.

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COMMENTS, REPLIES, AND FOREWORDS

Bollen, K.A. and Adamantios Diamantopoulos. (2017). Notes on Measurement Theory for Causal-Formative Indicators: A Reply to Hardin. *Psychological Methods* 22:605-608.

Bainter, Sierra A. and **K.A. Bollen**. (2015). Moving forward in the debate on causal indicators: Rejoinder to comments. *Measurement: Interdisciplinary Research and Perspectives* 13:63-74.

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Bollen, K.A. (2007). Interpretational confounding is due to misspecification, not to type of indicator: Comment on Howell, Breivik, and Wilcox (2007). *Psychological Methods* 12: 219-228.

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Bollen, K.A. (1990). Outlier Screening and a Distribution-Free Test for Vanishing Tetrads. *Sociological Methods and Research* 19:80-92.

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REVIEWS

Bollen, K.A. (1997). Review of L. Hayduk LISREL:Issues, Debates, and Strategies. *Social Forces* 76:352-354.

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Bollen, K.A. (1988). Review of The Statistical Analysis of Quasi-Experiments by C. Achen. *Contemporary Sociology* 17:433-434.

Bollen, K.A. (1988).Review of Matrices and Society: Matrix Algebra and its Applications in the Social Sciences by Ian Bradley and Ronald L. Meek. *Contemporary Sociology* 17:127.

Bollen, K.A. (1985). Review of Industrialization and Development: A Third World Perspective by Pradip K. Ghosh (ed) and Contending Approaches to World System Analysis by William R. Thompson (ed). *Contemporary Sociology* 14:250-51.

Bollen, K.A. (1981). Review of The Political Economy of Distribution by Michael D. Ward. *American Journal of Sociology* 87:502-4.

Bollen, K.A. and B. Entwisle. (1978). Review of Mortality Patterns in National Populations by Samuel Preston. *American Journal of Sociology* 84:785-88.

CONVENTION PAPERS AND INVITED PRESENTATIONS (Partial Listing)

Causal inference with random assignment versus researcher created binary treatments. Invited Speaker. European Causal Inference Meeting, Oslo, Norway, April 18-21, 2023.

What Longitudinal Model Should I Choose? Invited Speaker. Child Maltreatment Center, Pennsylvania State University, State College, Pennsylvania, August 19, 2022.

What Longitudinal Model Should I Choose? Keynote Speaker. Annual Robert Wherry Talk, Department of Statistics and Department of Psychology, Ohio State University, March 31, 2022.

What Longitudinal Model Should I Choose? Keynote Speaker. From Data to Causes Workshop. Humboldt University, Berlin, Germany, 6 October 2021.

What Longitudinal Model Should I Choose? Carolina Population Center Colloquium Series. Chapel Hill, NC, February 5, 2021 (with Iliya Gutin).

When Good Loadings Turn Bad: Robustness in Factor Analysis. International Meetings of the Psychometric Society, Santiago, Chile, 15-19 July 2019.

An Overview of Autoregressive, Latent Growth Curve, and ALT Models for Longitudinal Data. Invited presentation at the Measurement Error in Longitudinal Data Workshop, University of Manchester, UK, 19 June 2019.

An Overview of Autoregressive, Latent Growth Curve, and ALT Models for Longitudinal Data. Invited presentation at "It's About Time" Conference on Longitudinal Studies of the Life Course. Pennsylvania State University, 28-30 May 2019.

The Latent Variable – ALT (LV-ALT) Model: A General Framework for Longitudinal Data Analysis. Invited Keynote Address at the Measurement Error in Longitudinal Data Workshop, University of Manchester, UK, 21 June 2019.

Roadways and Obstacles to Robust and Reliable Sciences. Inaugural talk for The Odum
Institute 95th Anniversary Speaker Series: Social Science Speaks. University of North
Carolina, Chapel Hill, April 3, 2019.

A Novel Method for Testing Dimensionality of Measures Using Instrumental Variables.
College of Social and Behavioral Sciences. University of Utah, April 1, 2019.

An Overview of Autoregressive, Latent Growth Curve, and ALT Models for Longitudinal Data.
Duke University Population Research Institute Seminar Series, Durham, NC, February
21, 2019 *and* Carolina Population Center Seminar, University of North Carolina, Chapel
Hill, February 15, 2019.

A Novel Method for Testing Dimensionality of Measures Using Instrumental Variables.
Honorary Doctorate Seminar, Department of Statistics, Uppsala University, Uppsala,
Sweden, January 24, 2019.

Specify Globally, Estimate, and Test Locally: A MIIV Approach to Structural Equation Models.
Career Award for Lifetime Achievement Address presented at the International
Meetings of the Psychometric Society, New York City, July 11, 2018.

Model Implied Instrumental Variables (MIIVs) using MIIVsem. Invited Workshop by GSERM
and ICPSR held at University of St. Gallen, St. Gallen, Switzerland, June 5-6, 2018.

Longitudinal Structural Equation Models. Invited Workshop at SOCIUM, University of
Bremen, Bremen, Germany, May 28-29, 2018.

Model Implied Instrumental Variables: An Alternative Orientation to Structural Equation
Models. Presented at Applied Statistics Workshop, Harvard University, November 8,
2017.

Model Implied Instrumental Variables: An Alternative Orientation to Structural Equation
Models. Presidential Address at Society of Multivariate Experimental Psychology
(SMEP), October 6, 2017.

Model Implied Instrumental Variables: A New Orientation to Structural Equation Models.
Keynote Address at Methods Section Meetings of German Psychological Society,
University of Tübingen, Tübingen, Germany, September 20, 2017.

Model Implied Instrumental Variables: A New Orientation to Structural Equation Models.
Invited Keynote Talk at 2017 Modern Modeling Methods Conference, University of
Connecticut, Storrs, CN, May 22-25, 2017.

Myths about Measurement, Causality, and Structural Equation Models. Invited talk at Annenberg Public Policy Center, University of Pennsylvania, Philadelphia, PA, March 30, 2017.

Structural Equation Models. Invited seminar presentation at GESIS, Cologne, Germany, March 13-17, 2017.

Determining Factor Dimensionality using Model Implied Instrumental Variables (MIIVs). Presented at the ASA Methodology Section Midyear Meeting, Chicago, Illinois, April 26, 2017.

Latent Growth Curve Models for Longitudinal Data. Invited lectures at National Research University, Higher School of Economics, Moscow, Russia. August 1-5, 2016.

Are Survey Weights Needed? A Review of Weighting Tests in Regression Analysis. Presented at the Population Association of America Meetings, Washington, DC. March 31 – April 2, 2016.

Measurement Matters: Democracy, Distance, and Department Rankings. Invited presentation at the Institute for Advanced Studies of the University of Bologna, Bologna, Italy, 23 September 2015.

Social, Behavioral and Economic Sciences Perspectives on Robust and Reliable Science. Invited speaker at *NSF Director's Symposium on Robust and Reliable Science: The Path Forward*. National Science Foundation, Arlington, Virginia, 10 September, 2015.

The Latent Variable – ALT (LV-ALT) Model: A General Framework for Longitudinal Data Analysis. Presented at Duke Workshop on Sensing and Analysis of High-Dimensional Data. Duke University, Durham, North Carolina, 27-29 July 2015.

The Latent Variable – ALT (LV-ALT) Model: A General Framework for Longitudinal Data Analysis. Presented at Annual International Meeting of the Psychometric Society IMPS 2015, Beijing Normal University, China, 12-16 July 2015.

Are Survey Weights Needed? A Review of Diagnostic Tests in Regression Analysis. Presented at the ASA Methodology Section Mid-Year Meeting, San Diego, California, April 29, 2015. (Based on collaborative work with Paul Biemer, Alan Karr, Stephen Tueller, & Marcus Berzofsky, RTI International.)

Reflections on Causal Indicators in Structural Equation Models. Invited speaker, Department of Business Administration, Faculty of Business, Economics & Statistics, University of Vienna, Vienna, Austria, May 2014.

Measuring the Unmeasurable: Concepts and Latent Variables. Keynote speaker at Complex Causality in Structural Equation Modeling: Latent Variables & Nonrecursive Flows. QIPSR Miniconference. University of Kentucky, April 2014.

Measuring the Unmeasurable: Concepts and Latent Variables. Keynote speaker at Concepts as building Blocks of Theories workshop at Berlin Graduate School of Social Sciences at the Humboldt University and the Social Science Research Center Berlin, Berlin, Germany, July 2013.

Discussant for IRT Models for Aggregating V-Dem Data by D. Pemstein at Institute for Qualitative and Multimethod Research workshop. Maxwell School, Syracuse University, Syracuse, NY. June 2013.

An Overview of Structural Equation Models. at Robert Wood Johnson Foundation. New Connections: Increasing Diversity of RWJF Programming at Princeton University, Princeton, NJ. June 2013.

Longitudinal Structural Equation Models. Invited speaker at Graduate Methods Workshop at the Penn State Population Research Institute, State College, PA. June 2013.

Structural Equation Models Workshop sponsored by Biostatistics Group at University of Missouri, Columbia, Missouri. March 2013.

New Tests of the Number of Factors in Factor Analysis Using Instrumental Variables. Invited talk. Seminar series of the Department of Mathematics and Statistics, University of North Carolina at Greensboro, Greensboro, North Carolina. February 2013.

Model Implied Instrumental Variables (MIIVs)-Two Stage Least Squares (2SLS): An Alternative Approach to SEMs and Latent Growth Curve Models. Keynote Speaker at Structural Equation Modeling and Latent Variable Models Conference, University of Bologna, Bologna, Italy. September 2012.

A General Panel Model for Random and Fixed Effects Using Structural Equation Models. Invited Lecture at Center for Lifespan Psychology of the Max Planck Institute for Human Development, Berlin, Germany. September 2012.

What Are Latent Variable Structural Equation Models? Invited talk. Academy of
Mathematics and System Sciences, Chinese Academy of Sciences. Beijing, China.
July 2012.

Structural Equation Models Invited workshop. Peking University. Beijing, China. July 2012.

A General Panel Model for Random and Fixed Effects using Structural Equation Models.
Invited talk. Department of Statistics, Chinese University of Hong Kong, Hong Kong,
July 2012.

Determining the Number of Factors using Model Implied Instrumental Variables (MIIVs)
Invited Talk. Association for Psychological Science Annual Convention. Washington,
DC, May 2011.

An Overview of Latent Growth Curve Models. Invited Workshop. SMEP-APS Sponsored.
Association for Psychological Science Annual Convention. Washington, DC, May 2011.

Model Implied Instrumental Variables (MIIVs)-Two Stage Least Squares (2SLS): An Alternative
Approach to SEMs. Keynote Speaker. Modern Modeling Methods Conference.
University of Connecticut, Storrs, CN, May 2011.

Advanced Topics in Structural Equation Models. Invited Workshop. SPIDA 2011, York
University, Toronto, Ontario, Canada, May 2011.

Model Implied Instrumental Variables (MIIVs)-Two Stage Least Squares (2SLS): An Alternative
Approach to SEMs. Invited talk. Department of Business Studies, Uppsala University,
Uppsala, Sweden, May 2011.

Longitudinal Modeling with Structural Equation Models. Invited talks. Departments of
Statistics & Business Studies, Uppsala University, Uppsala, Sweden, May 2011.

A General Panel Model with Random and Fixed Effects: A Structural Equations Approach.
Colloquium, Department of Statistics, Pennsylvania State University, University Park,
PA, November 2010.

Measuring the Unmeasurable: Democracy, Depression, and Distance. Invited Address, 2010
Clifford C. Clogg Memorial Lecture, Departments of Sociology & Statistics, Pennsylvania
State University, University Park, PA, November 2010.

A General Panel Model with Random and Fixed Effects: A Structural Equations Approach. Demography Workshop, Population Center, University of Chicago, Chicago, IL, October 2010.

Measuring the Unmeasurable: Latent Variables and Structural Equation Models. Invited presentation at Quantification of Behavior, Arthur M. Sackler Colloquia of the National Academy of Sciences, Washington, D.C., June 2010.

Longitudinal Models with Structural Equation Models (SEMs). Invited presentations at Norwegian School of Management, Oslo, Norway, May-June 2010.

Visiting Fellow at the Institute of Education Sciences and BEAR seminar presentations on a variety of structural equation models topics. University of California, Berkeley, April 2010.

A General Panel Model with Fixed and Random Effects: A 'Cost of Motherhood' Example. Workshop in Methods. Indiana University, Bloomington, IN, April 2010.

Measuring the Unmeasurable: Depression, Democracy, and Distance. Karl S. Schuessler Lecture in Social Science Research. Indiana University, Bloomington, IN, April 2010.

A General Panel Model with Fixed and Random Effects: A 'Cost of Motherhood' Example. Office of Population Research, Princeton University, Princeton, NJ, February 2010.

Longitudinal Measurement of Patient Reported Outcomes: Latent Curve Models Using Structural Equation Models. Invited talk at 2009 Summer Program on Psychometrics, SAMSI Program at NISS, Research Triangle Park, NC, July 2009.

Fixed and Random Effects Models in Panel Data using Structural Equation Models. & An Overview of Latent Curve Models. Invited talks presented at the Swiss Foundation for Research in Social Sciences, University of Lausanne, Lausanne, Switzerland, September 2008.

An Overview of the Odum Institute for Research in Social Science. Invited talk presented at the Swiss Foundation for Research in Social Sciences, University of Lausanne, Lausanne, Switzerland, September 2008.

Fixed and Random Effects Models in Panel Data using Structural Equation Models. Invited talk presented at the California Center for Population Research and Department of Sociology, UCLA, February 2008.

Liberal Democracy Series I, 1972-1988: Definition, Measurement, And Trajectories. Invited talk presented at Producing Better Measures by Combining Data Cross-Temporally conference at University of Oxford, Oxford, England, November 2007.

Invited Speaker at the South African Statistical Association (SASA), Variety of topics and locations in South Africa. October - November 2007.

Structural Equation Models Lectures. Invited talk at the European Courses in Advance Statistics (ECAS) program of the European Union. Grenoble, France, September 2007.

Causality and Structural Equation Models. Invited talk at International Psychometric Society Meetings, Tokyo University, Tokyo, Japan, July 2007.

Topics in Random Effects Models for Longitudinal Data. Invited talk in SPIDA program at Institute for Social Research at York University, Toronto, Ontario, Canada, June 2007.

Latent Variable Models under Misspecification: Two Stage Least Squares (2SLS) and Maximum Likelihood (ML) Estimators. Invited talk at Department of Statistics, University of Chicago, April 2007.

Latent Variable Models. Invited talk at Second Annual Miami University CACR Symposium on State-of-the-Art Statistical Computing Methods for Social Science, Behavioral Science, and Business. Center for the Advancement of Computational Research, Miami University, Oxford, Ohio, March 2007.

Structural Equation Models (SEMs) for Pooled Time-Series and Cross-Sectional Data. Invited talk at Methods of Analysis Program in Social Sciences (MAPSS) Colloquium at Stanford University, January 2007.

Structural Equation Models and Recent Extensions. Invited Speaker at Winemiller (2006) Conference on Methodological Developments of Statistics in the Social Sciences. University of Missouri, Columbia, Missouri, October 2006.

Missing Data in Structural Equation Models and Growth Curve Models Invited Speaker at SPIDA 2006. York University. Toronto, Canada, May 2006.

Structural Equation Models (SEMs) for Pooling Cross-Sectional and Time-Series (Panel) Data. Keynote Speaker at Southampton Statistical Sciences Research Institute Symposium on the Convergence of Methods for the Analysis of Panel Data, University of Southampton, Southampton, UK, April 2006.

Latent Variable Models under Misspecification: Two Stage Least Squares (2SLS) and
Maximum Likelihood Estimators. Department of Statistics, University of Missouri,
Columbia, Missouri, October 2005.

Latent Variables in Psychology and the Social Sciences: A Sample Realization Definition.
Invited Talk. Institute for Statistics and Decision Sciences, Duke University, Durham,
North Carolina, September 2004.

Dissecting the Chi Square Test Statistic in Structural Equation Models. Invited talk at Model
Selection Conference. University of Amsterdam, Netherlands, August 2004.

Polychoric Two-Stage Least Squares for Categorical Variables in Structural Equation Models.
Keynote Speaker at the Society for Multivariate Analysis in the Behavioral and Social
Sciences (SMABS) Conference, Jena, Germany, July 2004.

The Future of Social Science Data Archiving in the United States: A Discussion with Five
Archive Directors IASSIST Conference, Madison, Wisconsin, May 2004.

Latent Variables in Psychology and the Social Sciences. Keynote Speaker at Congress on
Methodology of Health and the Social Sciences, University of Valencia, Valencia, Spain,
September 2003.

Latent Trajectory/Growth Curve Analysis. Invited Speaker at Congress on Methodology of
Health and the Social Sciences, University of Valencia, Valencia, Spain, September 2003.

Latent Variable Models under Misspecification: A Comparison of Full Information Maximum
Likelihood and Two Stage Least Squares (2SLS) Estimators. Invited Speaker at
Research Methods 2003 Conference, Free University, Amsterdam, Netherlands, June
2003.

A Weightless Estimator for Categorical Variables in Structural Equation Models. Psychometric
Society Annual Meeting, Chapel Hill, NC, June 2002.

A Tetrad Test for Categorical Variables in Structural Equation Models. (with John Hipp)
Psychometric Society Annual Meeting, Chapel Hill, NC, June 2002.

An Evaluation of RMSEA Tests of 'Close Fit' and 'Not Close Fit' in Structural Equation
Models. (with Curran, P.J., Chen, F., Paxton, P., & Kirby, J.B.) Psychometric
Society Annual Meeting, Chapel Hill, NC, June 2002.

Economic Status and Fertility: Does the Measure Matter? Invited talk at the Office of
Population Research, Princeton University, Princeton, NJ, September 2001.

Latent Trajectory/Growth Curve Analysis. Presented at the Methods Section Workshop of
The American Sociological Association, Anaheim, California, August 2001.

Latent Variables in Psychology and the Social Sciences. Invited talk at the International
Meeting of the Psychometric Society, Osaka, Japan, July 2001.

Growth Modeling using Structural Equation Models. Invited talk at Seminar in Recent
Developments in Structural Equation Modeling. Norwegian School of Economics and
Business Administration, Bergen, Norway, May 2001.

Interactions of Latent Variables in Structural Equation Models. Invited talk at Seminar in
Recent Developments in Structural Equation Modeling. Norwegian School of
Economics and Business Administration, Bergen, Norway, May 2001.

Two-stage Least Squares and Latent Variable Models: Simultaneous Estimation and
Robustness to Misspecifications. Invited talk. International Symposium on Structural
Equation Modeling, Chicago, IL, December 2001.

Causal Inferences in Structural Equation Models. Invited talk. Symposium on Causal
Inferences, School of Public Health, Johns Hopkins University, Baltimore, MD,
September 2000.

Structural Equation Models. Invited talk. Quantitative Methods Symposium. Institute for
Social Research. York University, Toronto, Ontario, June 2000.

An Autoregressive Latent Trajectory Model: A Synthesis of Two Traditions. Paper presented
at Factor Analysis and Structural Equation Modeling: Perspectives and Visions. An
International Symposium honoring the Research of Karl G. Jöreskog, University of
Uppsala, Uppsala, Sweden, March - April 2000.

An Empirical Deconstruction of Graduate School Ratings Using a Merit-Artifact Model.
(with P. Paxton), American Sociological Association meetings. Chicago, IL, August 1999.

An Overview of Structural Equation Models. 1999 American Sociological Association
Convention, Chicago, IL, August 1999.

Improper Solutions in Structural Equation Models: Causes, Consequences, and Strategies. Paper presented at the 1999 Annual Meeting Psychometric Society at the University of Kansas, Lawrence, Kansas, June 1999.

Latent Growth Curve Modeling. (with P. Curran) Invited presentation at the Second International Institute on Developmental Science, Stockholm, Sweden, May 1999.

An Autoregressive Latent Trajectory (ALT) Model: Synthesizing Two Traditions. (with P. Curran) Gertrude M. Cox Statistics Conference, RTI, Research Triangle Park, NC. September 1999. Also presented at Methodology Section Conference, American Sociological Association, Duke University, March 1999.

An Empirical Examination of the RMSEA for Assessing Fit in Structural Equation Modeling: Finite Sampling Properties and Statistical Power. (with P. Curran, P. Paxton, F. Chen, J. Kirby) Methodology Section Conference of the American Sociological Association, Duke University, March 1999.

A hybrid latent trajectory model of stability and change: Applications in developmental psychopathology. (with P. Curran) Biennial meeting of the Society for Research in Child Development, Albuquerque, NM, April 1999.

Toward Synthesizing Autoregressive and Latent Trajectory Models. (with P. Curran) APA: New Methods for the Analysis of Change conference hosted by Methodology Center, The Pennsylvania State University, University Park, PA, October 1998.

Structural Equation Models with Interactions of Latent Variables: A Two-Stage Least Squares Estimator. Invited presentation at Osaka University, Seventh Colloquium of Psychology and Behavioral Sciences, Osaka, Japan, September 1998.

Illiberal Democracies: Commonplace or Exceptional? Invited Lecture at Department of Sociology, Brown University, Providence, R.I., May 1998.

Change Scores, Fixed Effects, and Random Components in Longitudinal Models. Invited Lecture, Department of Sociology, University of Akron, Akron, Ohio, April 1998.

Does Liberal Democracy Matter? Invited Lecture at the Alpha Kappa Delta Banquet, University of Akron, Akron, Ohio, April 1998.

Structural Equation Modeling. Invited Lecture at Fourth Annual Population Research Institute Methodology Workshop. Pennsylvania State University, University Park, Pennsylvania, June 1997.

An Overview of Structural Equation Models. Invited Lecture at Workshop on Statistical
Association Models with Latent Variables, Wiesbaden, Germany, July 1996.

Measurement Models. Invited Lecture at Nordic Conference on Scale Validation. University
of Copenhagen, Denmark, May 1996.

An Introduction to Structural Equation Models. Invited Workshop at Swinburne University.
Melbourne, Australia, November 1996.

Interactions of Latent Variables in Structural Equation Models. Social Science and Statistics
Conference in Honor of Clifford C. Clogg. Pennsylvania State University, State College,
PA, September 1996.

Subjective Measures of Democracy. (with Pamela Paxton). Presented at the 1996 American
Sociological Association Convention. New York City, August 1996.

A Monte Carlo Study of the Instrumental Variables and Two Stage Least Squares Estimators in
Confirmatory Factor Analysis. (with Andrey Lukashou). Presented at the 1996
American Sociological Association Convention. New York City, August 1996.

Family Planning Facilities in Tanzania: His and Her Perceptions of Distance and Time.
Presented at 1996 Population Association of America Convention, New Orleans,
Lousiana, May, 1996; Also presented at Population Seminar, Pennsylvania State
University, State College, Pennsylvania, October 1995.

Ideas on Teaching Undergraduate Methodology Courses in Sociology. Invited presentation
Pew Charitable Trust Program in Preparing Future Faculty, Department of Sociology,
University of Washington, Seattle, Washington, January 1996.

Ideas on Teaching Graduate Methodology Courses in Sociology. (same as above).

The Measurement of Democracy. Invited presentation at 1996 Midwest Political Science
Association Convention, Chicago, Illinois, April 1996.

Democracy Before Athens, (with Pamela Paxton). Inequality and Democracy Conference at
Rutgers University, New Brunswick, New Jersey, February 1994.

A 2SLS Estimator for Latent Variable Models, Interdisciplinary Consortium for Statistical
Applications at Indiana University, Bloomington & RMD Conference on Causal
Modeling, Purdue University, West Lafayette, Indiana, March 1994.

Theoretical Frameworks for Democratic Political Development Assessments. National
Academy of Science. Washington, D.C., January 1993.

Bootstrapping Goodness of Fit Measures in Structural Equation Models. (With R. Stine). 1992.
Social Science Methodology Conference. ISA Trento, Italy. Also presented at
Department of Economics, Universitat Pompeu Fabra, Barcelona, Spain, Summer, 1992.

Outliers and Residual Analysis. Keynote Speaker at Third National Symposium on
Methodological Issues in Advanced Causal Modeling. Atlanta, GA, January 1992.

Indicators of Progress Toward Democracy Workshop. National Research Council.
Washington, D.C., May 1991.

High Level Expert Group Meeting on Freedom and Development. United Nations
Development Program. New York, NY, November 1991.

Confirmatory Tetrad Analysis. (With K. Ting). American Sociological Association, Cincinnati,
Ohio, August 1991.

Observational Residuals in Factor Analysis (with G. Arminger) American Sociological
Association, Washington, D.C., August 1990.

Perceived Cohesion: Its Dimensions and Measurement. (With R. Hoyle) American
Sociological Association, New York, New York, August 1989.

Conventional Wisdom on Measurement: A Structural Equation Perspective. (with R. Lennox)
American Sociological Association, New York, New York, August 1989.

Bootstrapping Structural Equation Models. (with R. Stine) American Sociological Association,
Atlanta, Georgia, August 1988.

Political Democracy: Conceptual and Measurement Traps. Invited paper, The
Measurement of Democracy, Hoover Institution, Stanford, California, May 1988.

A New Incremental Fit Index for General Structural Equation Models. Southern
Sociological Society, Nashville, Tennessee, March 1988.

Structural Equation Approaches to Subjective Air Quality. Invited paper at the 350th
Anniversary Symposium of the University of Utrecht, The Netherlands, Fall 1986.

Outliers and Improper Solutions in Structural Equation Models. American Sociological
Association, New York, NY, August 1986.

Toward a model of Social Integration Among the Elderly. (with J. Liang) American
Sociological Association, New York, NY, August 1986.

A Panel Analysis of the Philadelphia Geriatric Center Morale Scale (with J. Liang & R.
Lawrence) The Gerontological Society of America's 39th Annual Scientific Meeting,
1986.

Structural Equation Models: Unresolved Problems and Neglected Issues. Roundtable
Discussion Chair, American Sociological Association, Washington, D.C., August 1985.

World System Position, Democracy, and Inequality. (with R. Jackman), General
Conference of the European Association of Development Research and Training
Institutes, Madrid, Spain, Summer 1984.

A Note on 2SLS with Heteroskedastic and/or Autoregressive Disturbances. American
Sociological Association, San Antonio, TX, August 1984.

Multiple Indicators: Internal Consistency or No Necessary Relationship? American
Sociological Association, Detroit, Michigan, August 1983.

Noneconomic Determinants of Political Democracy (with Robert Jackman). American
Sociological Association, Detroit, Michigan, August 1983.

Daily Temporal Variations in Mortality. Population Association of America, San
Diego, CA, April 1982.

The Dimension(s) of Democracy. (with B. Grandjean), American Sociological
Association, Toronto, Ontario, Canada, August 1981.

Ratio Variables in Social Science Research. Roundtable Discussion Chair, American
Sociological Association, Toronto, Ontario, Canada, August 1981.

Ratio Variables in Correlation and Regression Analysis. Roundtable Discussion Chair,
American Sociological Association, New York, NY, August 1980.

The Effects of Early and Late Development on Political Democracy. American
Sociological Association, Boston, MA, August 1979.

Ratio Variables in Aggregate Data Analysis: Their Uses, Problems, and Alternatives. (with S. Ward), Population Association of America, Philadelphia, PA, April 1979.

A Comparative Analysis of Status Consistency. (with V. Covello), Eastern Sociological Association, Philadelphia, PA, Spring 1978.

EDITORIAL BOARDS:

American Sociological Review (2007-2010)
Journal of Causal Inference (2011-2021)
Journal of Statistical Theory and Practice (2008-)
Psychological Methodology (1997-2004; 2019-)
Multivariate Behavioral Research (1998-2015)
American Journal of Sociology (1997-1999)
Social Forces (1985-)
Contemporary Sociology (1987-1991)
Sage Quantitative Applications in the Social Science Series (1988-)
Sociological Methods & Research (1987-)
Sociological Methodology (1992-1995,1998-2000, 2011-)
Studies in Comparative International Development (2000-2010)
Structural Equation Modeling: A Multidisciplinary Quarterly (1994-)
Journal of Educational and Behavioral Statistics (2008-2014)

GRANT ACTIVITIES (Past Support)

Bollen, K. A. (PI), K. M. Gates (PI). Measuring the individual: Personalized latent variable models from ecological momentary assessments. NIH National Institute of Mental Health (NIMH) from April 4, 2019 to February 28, 2022. (Award Number: 1R21MH119572-01).

Linnstaedt, S. (PI), K.A. Bollen (Advisor). Key molecular mechanisms of chronic pain vulnerability in women experiencing MVC. National Institute of Health (NIAMS). 2018 to 2022. (KAR071504).

Harris, KM. (PI), K.A. Bollen (Investigator). The National Longitudinal Study of Adolescent to Adult Health. National Institute of Child Health and Human Development, Subproject III on Developmental Origins of Health and Disease Paradigm. July 16, 2014 to April 30, 2021 (2P01HD031921-16A1: $26,512,883 [$682,338 Subproject III]).

Gates, K.M. (PI), K. A. Bollen (Co-Investigator). Network Connectivity Modeling of Heterogeneous Brain Data to Examine Ensembles of Activity Across Two Levels of Dimensionality. NIH National Institute of Biomedical Imaging and Bioengineering from September 27, 2016 to June 30, 2021. (Award Number: 1-R01-EB022904-01).

McLean, S. (PI), K.A. Bollen (Investigator). Influence of PTSD Symptoms on Chronic Pain Development after Sexual Assault. National Institute of Health from July 17, 2014 to June 30, 2020. (5-R01-AR064700-01-02: $1,403,365).

McLean, S. (PI), K.A. Bollen (Investigator). Longitudinal Assessment of Post-traumatic Syndromes. NIH National Institute of Mental Health (NIMH). September 23, 2016 to July 31, 2021 (5-U01-MH110925-04: $5,432,897).

Fruehwirth, J. (PI), K.A. Bollen (Investigator). Tailoring Teaching to Fit the Class: Teaching Practice and Classroom Composition Under Random Assignment. US Department of Education (DOED) July 1, 2017 to June 30, 2020. (R305A170269: $302, 164)

Bollen, K.A. (PI). Advancing Structural Equation Modeling Methods and Their Application to the Natural Sciences. U.S. Geological Survey from September 1, 2016 to August 31, 2018. (Award Number: G16AC00422: $270,000).

McLean, S. (PI), K.A. Bollen (Investigator), and L. Diatchenko (Investigator). Applying Biopsychosocial Model to Post-MVC Pain Development in African Americans. National Institute of Health from September 15, 2011 to August 31, 2019 (1R01ARD60852-01A1: $763,687).

Bollen, K.A. (PI), Structural Equation Modeling for Complex Survey Data. Research Triangle Institute (RTI International) from April 1, 2014 to July 31, 2015. (C00600408: $120,000).

Bollen, K.A. (PI), A Virtue Ethics Perspective on Stress. Yale University and John Templeton Foundation from July 1, 2013 to June 30, 2015 (C14R11679: $117,396).

Mooney, Margarita (PI), K.A. Bollen (Investigator). A Virtue Ethics Perspective on Stress and Human Flourishing from Youth to Young Adulthood. John Templeton Foundation from July 1, 2012 to June 30, 2013 (A13-0085-001: $603,650).

McLean, S. (PI), K.A. Bollen (Investigator), and L. Diatchenko (Investigator). Applying Biopsychosocial Model to Post-MVC Pain Development in African Americans. National Institute of Health from September 15, 2011 to August 31, 2016 (1R01ARD60852-01A1: $763,687).

Adair, L. S. (PI), K.A. Bollen (Co-investigator), J. Brja, A. Feranil, C. Kuzawa, and
T. McDade. Modeling the Developmental Origins of Adult Disease Risk Factors.
National Institute of Health from April 1, 2008 to March 31, 2013 (1R01HD054501-
01A1: $2,545,893.00).

Bollen, K. A. (PI). Structural Misspecification in Latent Variable Models: Symptoms,
Consequences, and Diagnostic Tests. National Science Foundation Funded from
September 15, 2006 to September 14, 2011 (SES-0617276: $177,000).

Curran, P.J. (PI) and K.A. Bollen (Co-PI). Measurement models in latent curve
analysis. National Institute on Drug Abuse of NIH funded from July 1, 2005 to April
30, 2011 (DA013148-05A2: $1,146,275). Effort: 25% per year.

Bollen, K. A. (PI). Continuation Award Library of Congress National Digital Information
Infrastructure and Preservation Program Award funded from September 1, 2007 to
March 30, 2010. (Subcontract # F011777: $328,000) Effort: 10% per year.

Bollen, K. A. (PI). Library of Congress National Digital Information Infrastructure and
Preservation Program Award funded from September 1, 2004 to August 31, 2007
(Subcontract # F011777: $434,719) Effort: 10% per year.

Frierson, H. (PI), K. A. Bollen (Co-PI), and L. Dykstra (Co-PI). SBE COLLABORATIVE
RESEARCH: Atlantic Coast Social, Behavioral, and Economic Sciences Alliance,
National Science Foundation (minority training grant) Funded from October 1, 2005 to
September 30, 2007 (SES-0548858: $541,406).

Alan Karr (PI), K. A. Bollen (investigator). Dynamics for Social Networks Processes:
Comparing Statisticaodels with Intelligent Agents. National Science Foundation
(DMS-0437183 and SES-0537239) 10/01/04-9/30/05, $300,000.

Bollen, K.A. (PI), Mark Montgomery, Jennifer Glanville, and Guy Stecklov. Socioeconomic
Status in Population and Health Studies in Developing Countries MEASURE-USAID Grant
funded July 1, 1998 to December 31, 2000, $125,250.

Curran, P. J. (PI) and K. A. Bollen (Co-PI). 1999. Innovative Latent Curve Models of
Adolescent Drug Use. NIDA funded from July1, 1999 to June 30, 2004, $923,420.

Bollen, K.A. (PI) Democracy and Democratization: Social Conditions, Institutional Forms,
Transitions. National Science Foundation Graduate Traineeship Award, September 1,
1995 to August 31, 2002, (GER-9554569), $562,500.

Bollen, K.A. (PI) Measures of Liberal Democracy, 1980-1991. National Science Foundation Award, May 1, 1992 to April 30, 1995.

Bollen, K.A. (PI) Cross-National Measures of Political Democracy. National Science Foundation Award, July 1, 1989 to April 30, 1991.