

# SONYA K. STERBA

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## **APPOINTMENTS**

Professor, Quantitative Methods & Data Analytics Program, Department of Psychology and Human Development, Vanderbilt University (2022-Present)

Director, Quantitative Methods & Data Analytics Program, Dept. of Psychology and Human Development, Vanderbilt University (2017-Present)

Associate Professor, Quantitative Methods Program, Department of Psychology and Human Development, Vanderbilt University (2016-2022)

Assistant Professor, Quantitative Methods Program, Department of Psychology and Human Development, Vanderbilt University (2010-2016)

## **EDUCATION**

Ph.D. University of North Carolina at Chapel Hill; Chapel Hill, NC; 2005-2010  
Major: Quantitative Psychology; Advisor: Daniel J. Bauer

M.A. University of North Carolina at Chapel Hill; Chapel Hill, NC; 2003-2005  
Major: Child Clinical Psychology; Advisor: Mitchell J. Prinstein

B.A. Brown University; Providence, RI; 1998-2002  
Major: Psychology (highest honors); Advisor: Susan Dickstein  
Major: Education (concentration: Human Development)

## **PUBLICATIONS – ARTICLES<sup>1</sup>**

**Sterba, S.K. & Liang,\* A.** (Accepted). Parceling to lower indicator-to-sample-size ratio? Instead try correcting your SEM chi-square for high-*p* and modest-*N* to obtain nominal Type I error without parcel-allocation variability. *Structural Equation Modeling*.

**Liang,\* A. & Sterba, S.K.** (2025). Power analysis to detect misfit in SEMs with many items: Resolving unrecognized problems, relating old and new approaches, and "matching" power analysis approach to data analysis approach. *Psychological Methods*. doi: 10.1037/met0000684.

**Liang,\* A., Preacher, K.K., Williams, N.J., Allison, P.D., Marcus, S.C. & Sterba, S.K.** (2025). Determining the power of a 1-sided *z*-test given only the power of the corresponding 2-sided test. *Journal of Behavioral Medicine*, doi: 10.1007/s10865-025-00595-6

**Fuchs, L.S., Seethaler, P.M., Sterba, S.K. et al.,** (2024). Transfer between reading comprehension and word-problem solving among children with learning difficulty in both domains. *Journal of Educational Psychology*, 116, 1093–1111.

**Shaw,\* M., Rights,\* J.D., Sterba, S.K. & Flake, J.K.** (2023). r2mlm: An R package calculating R-squared

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<sup>1</sup> \* indicates current graduate student or former graduate advisee

measures for multilevel models. *Behavior Research Methods*, 55, 1942-1964. [[Associated software tools available](#)].

Rights\*, J.D., & **Sterba**, S.K. (2023) R-squared measures for multilevel models with three or more levels. *Multivariate Behavioral Research*, 58, 340-367. [[Associated software tools and online appendix available](#).]

**Sterba**, S.K.,† & Rights,\* † J.D. (2022). R-squared measures for multilevel mixture models with random effects. *Structural Equation Modeling*, 29, 489-506. [Associated software tools and online appendix available.] † Authors contributed equally.

Zelkowitz,\* R.L., Cole, D.A. **Sterba**, S.K., Liu,\* Q., Lau, A.S., Ngo, V.K., Trung, L.T. & Weiss, B. (2022). Latent profile analyses of disordered eating behaviors and nonsuicidal self-injury in Vietnamese adolescents. *International Journal of Eating Disorders*, 55, 1721-1732.

Fuchs, L.S., Fuchs, D., **Sterba**, S. K., Barnes, M.A., Seethaler, P.M., & Changas, P. (2022). Building word problem solving and working memory capacity: A randomized controlled trial comparing three intervention approaches. *Journal of Educational Psychology*, 114, 1633–1653.

Rights,\* J.D., & **Sterba**, S.K. (2021). Effect size measures for longitudinal growth analyses: Extending a framework of multilevel model R-squareds to accommodate heteroscedasticity, autocorrelation, nonlinearity, and alternative centering strategies. *New Directions for Child and Adolescent Development* (Special Issue on Developmental Methods), 175, 65-110. [[Associated software tools and online appendix available](#).]

Fuchs, L., Seethaler, P., **Sterba**, S.K., Craddock, C., Fuchs, D., Compton, D., Geary, D., & Changas, P. (2021). Closing the word-problem achievement gap in first grade: Schema-based word-problem intervention with embedded language comprehension instruction. *Journal of Educational Psychology*, 113, 86-103.

Rights,\* J.D., & **Sterba**, S.K. (2020). New recommendations on the use of R-squared differences in multilevel model comparisons. *Multivariate Behavioral Research*, 55, 568-599. [[Associated software tools and online appendix available](#).]

**Sterba**, S.K. (2019). Problems with rationales for parceling that fail to consider parcel-allocation variability. *Multivariate Behavioral Research*, 54, 264-287.

Rights,\* J.D., & **Sterba**, S.K. (2019). Quantifying explained variance in multilevel models: An integrative framework for defining R-squared measures. *Psychological Methods*, 24, 309-338. [[Associated software tools and online appendix available](#).]

Preacher, K.J., & **Sterba**, S.K. (2019). Aptitude × Treatment interactions in research on educational interventions. *Exceptional Children* (Special Issue: On the Importance of Moderator Analyses in Intervention Research), 85, 248-254.

Malone, A.S., Fuchs, L.S., **Sterba**, S.K., Fuchs, D., & Foreman-Murray, L. (2019). Does an integrated focus on fractions and decimals improve at-risk students' rational number magnitude performance? *Contemporary Educational Psychology*, 59.

Rights,\* J.D., & **Sterba**, S.K. (2018). A framework of R-squared measures for single-level and multilevel regression mixture models. *Psychological Methods*, 23, 424-437. [[Associated software tools and online appendix available](#).]

Rights,\* J.D., **Sterba**, S.K., Cho, S.-J., & Preacher, K.J. (2018). Addressing model uncertainty in item response theory person scores through model averaging. *Behaviormetrika*, 45, 495-503.

Cox,\* R., **Sterba**, S.K., Upender, R., Olatunji, B., & Cole, D.A. (2018). Time of day effects on the relationship between daily sleep and anxiety: An ecological momentary assessment approach. *Behaviour Research and Therapy*, 111, 44-51.

Bettis,\* A.H., Forehand, R., **Sterba**, S.K., Preacher, K.J., & Compas, B.E. (2018). Anxiety and depression in children of depressed parents: Dynamics of change in a preventive intervention. *Journal of Clinical Child and Adolescent Psychology*, 47, 581-594.

Lee,\* W.-y., Cho, S.-J., & **Sterba**, S.K. (2018). Ignoring a multilevel structure in mixture item response models: Impact on parameter recovery and model selection. *Applied Psychological Measurement*, 42, 136-154.

**Sterba**, S.K. (2017, a). Pattern mixture models for quantifying missing-data uncertainty in longitudinal invariance testing. *Structural Equation Modeling*, 24, 283-300. [[Online appendix and code available](#)].

**Sterba**, S.K., & Rights,\* J.D. (2017). Effects of parceling on model selection: Parcel-allocation variability in model ranking. *Psychological Methods*, 22, 47-68. [[Associated software tools and online appendix available](#).]

**Sterba**, S.K. (2017, b). Partially nested designs in psychotherapy trials: A review of modeling developments. *Psychotherapy Research*, 27, 425-436. [[Online appendix and code available](#)].

Gottfredson, N.C., **Sterba**, S.K. & Jackson, K.A. (2017). Explicating the conditions under which multilevel multiple imputation mitigates bias resulting from random coefficient-dependent missing longitudinal data. *Prevention Science*, 18, 12-19.

Rights,\* J.D. & **Sterba**, S.K. (2016). The relationship between multilevel models and nonparametric multilevel mixture models: Discrete approximation of intraclass correlation, random coefficient distributions, and residual heteroscedasticity. *British Journal of Mathematical and Statistical Psychology*, 69, 316-343. [[Associated software tools available](#).]

**Sterba**, S.K., & Rights,\* J.D. (2016). Accounting for parcel-allocation variability in practice: Combining sources of uncertainty and choosing the number of allocations. *Multivariate Behavioral Research*, 51, 296-313. [[Associated software tools available](#)].

**Sterba**, S.K. (2016, a). A latent transition analysis model for latent-state-dependent nonignorable missingness. *Psychometrika*, 81, 506-534. [[Online appendix and code available](#)].

Fuchs, L.S., **Sterba**, S.K., Fuchs, D., & Malone, A. (2016). Does evidence-based fractions intervention address the needs of very low performing students? *Journal of Research on Educational Effectiveness*, 9, 662-677.

**Sterba**, S.K. (2016, b). Cautions on the use of multiple imputation when selecting between latent categorical versus continuous models for psychological constructs. *Journal of Clinical Child and Adolescent Psychology*, 45, 167-175.

**Sterba**, S.K. (2016, c). Interpreting and testing interactions in conditional mixture models. *Applied Developmental Science*, 20, 29-43. [[Online appendix and code available](#)].

Compas, B., Forehand, R., Thigpen, J., Hardcastle, E., Garai, E., McKee, L., Keller, G., Dunbar,\* J., Watson,\* K., Rakow, A., Bettis,\* A., Reising, M., Cole, D., & **Sterba**, S. (2015). Efficacy and moderators of a family group cognitive behavioral preventive intervention for children of depressed parents. *Journal of Consulting and Clinical Psychology*, 83, 541-553.

**Sterba**, S.K., & Gottfredson,\* N.C. (2015). Diagnosing global case influence on MAR versus MNAR model comparisons. *Structural Equation Modeling*, 22, 294-307. [[Online appendix and code available](#)].

Lachowicz,\* M.J., **Sterba**, S.K., & Preacher, K.J. (2015). Investigating multilevel mediation with fully or partially nested data. *Group Processes & Intergroup Relations*, 18, 274-289. [[Online appendix and code available](#)].

**Sterba**, S.K. (2014, a). Handling missing covariates in conditional mixture models under missing at random assumptions. *Multivariate Behavioral Research*, 49, 614-632. [[Online appendix and code available](#)].

**Sterba**, S.K., Preacher, K.J., Forehand, R., Hardcastle, E.J., Cole, D.A., & Compas, B.E. (2014). Structural equation modeling approaches for analyzing partially nested data. *Multivariate Behavioral Research*, 49, 93-118. [[Online appendix and code available](#).]

**Sterba**, S.K. (2014, b). Fitting nonlinear latent growth curve models with individually-varying time points. *Structural Equation Modeling*, 21, 630-647. [[Online appendix and code available](#).]

Cole, D.A., Martin, N.C., **Sterba**, S.K., Sinclair,\* K., Roeder,\* R., Zelkowitz,\* R., & Bilsky, S. (2014). Peer victimization and harsh parenting as developmental correlates of cognitive reactivity, a diathesis for depression. *Journal of Abnormal Psychology*, 123, 336-349.

**Sterba**, S.K., & Bauer, D.J. (2014). Predictions of individual change recovered with latent class or random coefficient growth models. *Structural Equation Modeling*, 21, 342-360. [[Online appendix available](#).]

Fuchs, L.S., Schumacher, R.F., **Sterba**, S.K., Long,\* J., Namkung,\* J., Malone,\* A., Hamlett, C.L., Jordan, N.C., Gersten, R., Siegler, R.S., & Changas, P. (2014). Does working memory moderate the effects of fraction intervention: An aptitude-treatment interaction. *Journal of Educational Psychology*, 106, 499-514.

**Sterba**, S.K. (2013). Understanding linkages among mixture models. *Multivariate Behavioral Research*, 48, 775-815. [[Online appendix and code available](#).]

**Sterba**, S.K. & Pek, J. (2012). Individual influence on model selection. *Psychological Methods*, 17, 582-599. [[Online appendix and code available](#).]

**Sterba**, S.K., Baldasaro,\* R.E., & Bauer, D.J. (2012). Factors affecting the adequacy and preferability of semiparametric groups-based approximations of continuous growth trajectories. *Multivariate Behavioral Research*, 40, 590-634. [[Online appendix available](#).]

Bauer, D.J., & **Sterba**, S.K. (2011). Fitting multilevel models with ordinal outcomes: Performance of alternative specifications and methods of estimation. *Psychological Methods*, 16, 373-390. [[Online appendix available](#).]

**Sterba**, S.K. (2011). Implications of parcel-allocation variability for comparing fit of item-solutions and parcel-solutions. *Structural Equation Modeling*, 18, 554-577.

**Sterba**, S.K., & Bauer, D.J. (2010). Statistically evaluating person-oriented principles revisited: Reply to Molenaar (2010), von Eye (2010), Lalongo (2010) and Mun, Bates and Vaschillo (2010). *Development & Psychopathology*, 22, 287-294.

**Sterba**, S.K., & Bauer, D.J. (2010). Matching method with theory in person-oriented developmental psychopathology research. *Development & Psychopathology*, 22, 239-254. [[Online appendix available](#).]

**Sterba**, S.K., & MacCallum, R.C. (2010). Variability in parameter estimates and model fit across repeated allocations of items to parcels. *Multivariate Behavioral Research*, 45, 322-358. [[Associated software tools](#) and [online appendix available](#).]

**Sterba**, S.K., Copeland, W., Egger, H., Costello, J., Erkanli, A., & Angold, A. (2010). Longitudinal dimensionality of adolescent psychopathology: Testing the differentiation hypothesis. *Journal of Child Psychology and Psychiatry*, 51, 871-884. [[Online appendix available](#).]

**Sterba**, S.K. (2009). Alternative model-based and design-based frameworks for inference from samples to populations: From polarization to integration. *Multivariate Behavioral Research*, 44, 711-740. [[Online appendix and code available](#).]

Pek, J., **Sterba**, S.K., Kok, B., & Bauer, D.J. (2009). Estimating and visualizing nonlinear relations among latent variables: A semi-parametric approach. *Multivariate Behavioral Research*, 44, 407-436. [[Associated software tools available](#).]

Compas, B.E., Forehand, R.E., Keller, G., Champion, J.E., Rakow, A., Reeslund, K.L., McKee, L., Fear, J.M., Colletti, C., Hardcastle, E., Merchant, M., Roberts, L., Potts, J., Garai, E., Coffelt, N., Roland, E., **Sterba**, S., & Cole, D.A. (2009). Randomized controlled trial of a family cognitive-behavioral preventive intervention for children of depressed parents. *Journal of Consulting and Clinical Psychology*, 77, 1007-1020.

Nock, M., Prinstein, M.J., & **Sterba**, S.K. (2009). Revealing the form and function of self-injurious thoughts and behaviors: A real-time ecological assessment study. *Journal of Abnormal Psychology*, 118, 816-827.

Bauer, D.J., **Sterba**, S.K., & Hallfors, D. (2008). Evaluating group-based interventions when control participants are ungrouped. *Multivariate Behavioral Research*, 43, 210-246. [[Online appendix and code available](#)].

**Sterba**, S.K., Egger, H.L., & Angold, A. (2007). Diagnostic specificity and non-specificity in the dimensions of preschool psychopathology. *Journal of Child Psychology and Psychiatry*, 48, 1005-1013.

**Sterba**, S.K., Prinstein, M.J., & Cox, M.J. (2007). Trajectories of internalizing problems across childhood: Heterogeneity, external validity, and gender differences. *Development and Psychopathology*, 19, 345-366.

**Sterba**, S.K. (2006). Misconduct in the analysis and reporting of data: Bridging methodological and ethical agendas for change. *Ethics & Behavior*, 16, 305-318.

## **PUBLICATIONS – BOOKS**

Panter, A.T., & **Sterba**, S.K. (Eds.) (2011). *Handbook of ethics in quantitative methodology*. Multivariate Applications Series. New York: Taylor & Francis/Routledge.

## **PUBLICATIONS – CHAPTERS & ENTRIES**

**Sterba**, S.K. & Rights,\* J.D. (2022). Item parceling in SEM: A researcher degree-of-freedom ripe for opportunistic use. In R. Hoyle (Ed.), *Handbook of Structural Equation Modeling, 2<sup>nd</sup> Edition*, (pp. 296-316). New York: Guilford.

**Sterba**, S.K. (2014, c). Modeling strategies in developmental psychopathology research: Prediction of individual change. In M. Lewis & K.D. Rudolph (Eds.), *Handbook of developmental psychopathology research* (pp. 109-124). New York: Springer.

**Sterba**, S.K., Christ, S.L., Prinstein, M.J., & Nock, M.K. (2011). Beyond treating complex sampling designs as simple random samples: Data analysis and reporting. In A.T. Panter & S.K. Sterba (Eds.), *Handbook of ethics in quantitative methodology* (pp. 267-291). New York: Taylor & Francis/Routledge.

**Sterba**, S.K., & Foster, M. (2008). Self-selected samples. In P. Lavrakas (Ed.), *Encyclopedia of survey research methods*. Thousand Oaks, CA: Sage.

**Sterba**, S.K., Mathiowetz, R., & Bauer, D.J. (2008). Adequacy of semiparametric approximations for growth models with nonnormal random effects (Abstract). *Multivariate Behavioral Research*, 43, 258-259.

## **HONORS**

**Quantitative Methods Research Award**, 2021. “This annual award recognizes excellence in a research study focusing on quantitative methods for psychology.” Awarded by the Canadian Psychological Association (CPA) for Rights\* & Sterba (2020). *New recommendations on the use of R-squared differences in multilevel model comparisons*.

**Tanaka Award for Annual Best Article**, 2021. For the “most outstanding paper published in *Multivariate Behavioral Research*.” Awarded for Rights\* & Sterba (2020). *New recommendations on the use of R-squared differences in multilevel model comparisons.*”

**Fellow of the Association for Psychological Science**, 2021.

**Fellow of the American Psychological Association**, 2020. (Div. 5: Quantitative & Qualitative Methods).

**Anne Anastasi Distinguished Early Career Contributions Award (APA)**, 2018. “Recognizes outstanding contributions to quantitative research methods.” Awarded by the American Psychological Association (APA), Division 5 (Quantitative & Qualitative Methods).

**Early Career Impact Award (FABBS)**, 2018. “Recognizes scientists who have made major contributions to the sciences of mind, brain, and behavior.” Awarded by the Federation of Associations in Behavioral and Brain Sciences (FABBS).

**Chancellor’s Faculty Fellowship**, 2017-2019. One of 12 given university-wide for “innovation for new basic discoveries, path breaking scholarship and creative expression” (\$80,000).

**Early Career Research Award (SMEP)**, 2015. For “outstanding early-career contributions to multivariate experimental psychology.” Awarded by the Society of Multivariate Experimental Psychology (SMEP).

**Rising Star Award (APS)**, 2015. “Recognizes researchers whose innovative work has already advanced the field and signals great potential for their continued contributions.” Awarded by the Association for Psychological Science (APS).

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

**State-of-the-Art Speaker**, 2014, Psychometric Society.

**Tanaka Award for Annual Best Article**, 2011. For the “most outstanding paper published in *Multivariate Behavioral Research*.” Awarded for Sterba & MacCallum (2010) “Variability in parameter estimates and model fit across repeated allocations of items to parcels.”

**Lyle V. Jones Award**, 2007. For “outstanding scholarship & citizenship as a student in the L.L. Thurstone Psychometric Laboratory.” UNC-CH.

**APA Student Ethics Writing Prize Special Section**, selected for publication, 2005.

**Travel Awards** (Society of Multivariate Experimental Psychology Conference, 2008; Penn State Institute on Longitudinal Methods Workshop, 2005; Growth Mixture and Multilevel Modeling Workshop at Johns Hopkins, 2005; Society for Research in Child Development Conference, 2005).

**Magna Cum Laude**, 2002, highest honors at Brown University Commencement.

**Edmund Delabarre Memorial Award**, 2002, For “outstanding thesis research and scholarship in psychology.” Brown University.

**Phi Beta Kappa**, inducted 2002.

**Karen T. Romer Research Fellowship**, 2001, Brown University.

**Solsberry Endowed Research Fellowship**, 2000, Brown University.

## **PRESENTATIONS – TALKS & SYMPOSIA**

Rodgers, J., Bauer, D., Pek, J., Preacher, K. & **Sterba**, S.K. (October, 2025, Invited). *Symposium to Honor the Life & Work of Robert C. MacCallum*. Society of Multivariate Experimental Psychology, South Bend, IN.

**Sterba**, S.K., (February, 2023, Invited). Overview of multilevel model R-squared measures and partial nesting. University of Arkansas, Dept. of Education Reform (Virtual).

Rights,\* J.D., & **Sterba**, S.K., & Liu,\* Q. (October, 2021). *Partitioning and quantifying variance in regression models*

*combining discrete latent classes and continuous random effects.* Society of Multivariate Experimental Psychology (Virtual) Conference.

Rights,\* J.D., & **Sterba**, S.K. (March, 2021, Invited). *Quantifying explained variance in cross-sectional and longitudinal multilevel models with any number of levels.* Ohio State University, Quantitative Psychology Colloquium Series.

**Sterba**, S.K., & Rights,\* J.D. (September, 2020, Invited). *An integrative framework of R-squared measures for multilevel models.* University of Southern California, Department of Psychology, Quantitative Methods Colloquium Series.

Rights,\* J.D., & **Sterba**, S.K. (September, 2020, Invited). *New methods for R-squared computation in multilevel models.* University of Connecticut, Quantitative Methods Talk Series.

Rights,\* J.D., & **Sterba**, S.K. (May, 2020, Invited). *Computing R-squared differences in multilevel model comparisons with simultaneous vs. hierarchical model-building approaches.* Association for Psychological Science Annual Convention. (In-person conference cancelled).

Rights,\* J.D., & **Sterba**, S.K. (October, 2019). *On the common but problematic specification of conflated random slopes in multilevel models.* Society of Multivariate Experimental Psychology Conference, Baltimore, MD.

Preacher, K.J., & **Sterba**, S.K. (October, 2019). Aptitude  $\times$  Treatment interactions in research on educational interventions. Society of Multivariate Experimental Psychology Conference, Baltimore, MD.

**Sterba**, S.K., & Rights,\* J.D. (November, 2018, Invited). *Advances in R-squared measures for quantifying explained variance in multilevel models.* University of North Carolina at Chapel Hill, Psychology Department Quantitative Forum.

**Sterba**, S.K., & Rights,\* J.D. (October, 2018). *New recommendations on the use of R-squared differences in multilevel model comparisons.* Society of Multivariate Experimental Psychology Conference, Albuquerque, NM.

**Sterba**, S.K., & Rights,\* J.D. (August, 2018, Invited). *Relating multilevel model and mixture model results using new measures of explained variance.* In D. Bandalos (Chair) Division 5 Awards Symposium. American Psychological Association Convention (Division 5), San Francisco, CA.

Rights,\* J.D., & **Sterba**, S.K. (July, 2018). *Quantifying explained variance in multilevel models: An integrative framework for defining R-squared measures.* International Meeting of the Psychometric Society, NY, NY.

Rights,\* J.D., & **Sterba**, S.K. (May, 2017). *A framework of R-squared measures for single-level and multilevel regression mixture models.* Modern Modeling Methods Conference, University of Connecticut.

**Sterba**, S.K. (October, 2016, Invited). *Problems with rationales for parceling without considering parcel allocation variability.* Society of Multivariate Experimental Psychology Conference, Richmond, VA.

Rights,\* J.D., & **Sterba**, S.K. (August, 2016). *The relationship between multilevel models and nonparametric multilevel mixture models.* In symposium *Advances in Mixture Modeling*. American Psychological Association Convention (Division 5), Denver, CO.

**Sterba**, S.K., & Rights,\* J.D. (August, 2016, Invited). *Quantifying hidden costs of parceling in latent variable modeling.* American Psychological Association Convention (Division 5), Denver, CO.

**Sterba**, S.K. (August, 2016). *Advances in mixture modeling.* Chaired Symposium. American Psychological Association Convention (Division 5). Denver, CO. Presenters: Steinley, D.; Grimm, K.; Rights, J.; Harring, J.

Rights,\* J.D., & **Sterba**, S.K. (July, 2016). *Approximating level-1 and level-2 heteroscedasticity with nonparametric multilevel mixture models.* International Meeting of the Psychometric Society, Asheville, NC.

**Sterba**, S.K., & Rights,\* J.D. (November, 2015, Invited). *Quantifying hidden costs of parceling in latent variable modeling.* University of Notre Dame, Psychology Department Colloquia.

**Sterba, S.K., & Rights,\* J.D.** (October, 2015). *Effects of parceling on model selection: Parcel-allocation variability in model ranking*. Society of Multivariate Experimental Psychology Conference, Redondo Beach, CA.

Gottfredson, N.C., **Sterba, S.K.**, & Jackson, K. (May, 2015). *Relaxing assumptions about missing predictors in longitudinal mixed models*. Society for Prevention Research Conference. Washington, D.C.

**Sterba, S.K.** (October, 2014, Invited). *Structural equation modeling approaches for analyzing partially nested data*. York University, Quantitative Program Colloquia.

**Sterba, S.K.** (July, 2014, Invited). *Structural equation modeling approaches for analyzing partially nested data*. Psychometric Society Meeting, Madison, WI.

**Sterba, S.K.** (November, 2013, Invited). *Fitting nonlinear latent growth models with individually-varying time points*. University of Notre Dame, Quantitative Program Colloquia.

**Sterba, S.K.** (May, 2013). *Fitting nonlinear latent growth models with individually-varying time points*. Modern Modeling Methods Conference, University of Connecticut.

**Sterba, S.K.** (August, 2011). *New perspectives on old measurement issues*. Chaired Symposium. American Psychological Association Convention (Division 5), Washington D.C. Presenters: Hofer, S.; Kelley, K.; Edwards, M.; Wirth, R.; Sterba, S.

**Sterba, S.K.** (August, 2011). *Parcel-allocation variability: Implications for interpreting parcel-solutions and item-parcel fit differences*. In symposium *New perspectives on old measurement issues*. American Psychological Association Convention (Division 5), Washington D.C.

**Sterba, S.K.** (May, 2011). *Parcel-allocation variability in structural equation modeling: Implications for interpreting parcel solutions and item-parcel fit differences*. Modern Modeling Methods Conference, University of Connecticut.

**Sterba, S.K.** (February, 2009). *Evaluating models of individual heterogeneity in developmental course*. Arizona State.

**Sterba, S.K.** (February, 2009). *Evaluating models of individual heterogeneity in developmental course*. Vanderbilt.

**Sterba, S.K.** (February, 2009). *Evaluating models of individual heterogeneity in developmental course*. Harvard.

**Sterba, S.K.**, Mathiowetz, R., & Bauer, D.J. (September, 2008). *Adequacy of semiparametric approximations for growth models with nonnormal random effects*. Society of Multivariate Experimental Psychology Conference. Montreal, Canada.

Bauer, D.J., Pek, J., **Sterba, S.K.**, & Kok, B.E. (September, 2008). *Visualizing nonlinear relationships among latent variables using mixtures*. Society of Multivariate Experimental Psychology Conference. Montreal, Canada.

**Sterba, S.K.**, Prinstein, M.J., & Nock, M. (August, 2008). *Beyond pretending complex nonrandom samples are simple and random*. In symposium *Quantitative methodology viewed through an ethical lens*. American Psychological Association Convention (Division 5). Boston, MA.

Panter, A.T., & **Sterba, S.K.** (August, 2008). *Quantitative methodology viewed through an ethical lens*. Chaired Symposium. American Psychological Association Convention (Division 5). Boston, MA. Presenters: Edwards, M.; Cumming, G.; Fidler, F.; Leviton, L.; Mark, M.; McArdle, J.; Sterba, S.

**Sterba, S.K.** (March, 2008, Invited). *Modeling the homotypic or heterotypic course of psychopathology*. Developmental Psychology Program Forum. Chapel Hill, NC.

Bauer, D.J., & **Sterba, S.K.** (October, 2007). *When bias and RMSE don't agree*. Society of Multivariate Experimental Psychology Conference. Chapel Hill, NC.

Bauer, D.J., & **Sterba, S.K.** (August, 2007). *Multilevel models for ordinal outcomes in longitudinal or clustered data*. American Psychological Association (Division 5). San Francisco, CA.

Angold, A., Egger, H., & **Sterba**, S.K. (July, 2006). *Can we distinguish between depression and oppositional defiant disorder in preschoolers?* 10<sup>th</sup> World Congress for Infant Mental Health. Paris, France.

**Sterba**, S.K., Prinstein, M.J., & Cox, M.J. (June, 2005). Gender differences in children's externalizing and internalizing symptom trajectories ages 2-11. In symposium *Course and predictors of youths' internalizing and externalizing symptom trajectories*. Meeting of the International Society for Research in Child & Adolescent Psychopathology (ISRCAP). New York, NY.

Prinstein, M. J., & **Sterba**, S.K. (June, 2005). *Course and predictors of youths' internalizing and externalizing symptom trajectories*. Chaired Symposium: Meeting of the International Society for Research on Child and Adolescent Psychopathology (ISRCAP). New York. Presenters: M. Gilliom & D. Shaw; P. Kane & J. Garber; S. Jones; & A. Carter; Discussant: A. Angold.

**Sterba**, S.K. (March, 2005, Invited). *Unpacking heterotypic continuity: Factors differentiating latent trajectories of homotypic versus heterotypic symptoms from 2-11 years*. Johns Hopkins School of Public Health, NIDA Center for Prevention and Early Intervention. Baltimore, MD.

## **PRESENTATIONS — POSTERS**

Rights,\* J.D., & **Sterba**, S.K. (October, 2018). *Quantifying explained variance in multilevel models: An integrative framework for defining R-squared measures*. Society of Multivariate Experimental Psychology Conference, Albuquerque, NM.

Rights,\* J.D. & **Sterba**, S.K. (July, 2016). *Algorithm for choosing the number of random item-to-parcel-allocations in SEM*. Psychometric Society Meeting, Asheville, NC.

Lee,\* W.-y., Cho, S.-J., & **Sterba**, S.K. (April, 2016). *The impact of ignoring a multilevel structure in mixture item response models*. Annual Meeting of the National Council on Measurement in Education. Washington, DC.

Hennessy,\* E.A., & **Sterba**, S.K. (November, 2015). *A latent class analysis of adolescent recovery capital*. American Public Health Association Convention. Chicago, IL.

**Sterba**, S.K., & Angold, A. (February, 2008). *Is successive comorbidity the result of developmental changes in the dimensionality of psychopathology?* Duke-UNC Conference on Developmental Psychopathology. Chapel Hill, NC.

**Sterba**, S.K., Egger, H.L., & Angold, A. (June, 2007). *Parallel dimensions of psychopathology in preschool and school-aged children*. Meeting of the International Society for Research on Child and Adolescent Psychopathology (ISRCAP). London, England.

**Sterba**, S.K., Bauer, D.J., & Cox, M.J. (August, 2005). *Comparing growth mixture and correlative methods for identifying symptom covariation*. American Psychological Association Convention (Division 5). Washington, DC.

**Sterba**, S.K., Prinstein, M.J., Bauer, D.J., & Cox, M.J. (November, 2005). *Heterogeneity in latent trajectories of internalizing problems across early childhood: Gender divergence over time*. Association for the Advancement of Cognitive and Behavioral Therapy Convention. New Orleans, LA.

**Sterba**, S.K., Prinstein, M.J., Bauer, D.J., & Cox, M.J. (November, 2005). *Unpacking heterotypic continuity: Gender and developmental factors differentiating latent trajectories of homotypic versus heterotypic symptoms from 2-11 years*. Association for the Advancement of Cognitive and Behavioral Therapy Convention. New Orleans, LA.

Judge, A., **Sterba**, S.K., Prinstein, M.J. Simon, V., & Spirito, A. (November, 2005). *Self-mutilation as a longitudinal predictor of suicidal ideation and attempts among clinically-referred adolescents*. Association for the Advancement of Cognitive and Behavioral Therapy Convention. New Orleans, LA.

**Sterba**, S.K., & Cox, M.J. (April, 2005). *Joint trajectories of internalizing and externalizing problems in early childhood: Testing theories of symptom covariation*. Society for Research in Child Development Convention. Atlanta, GA.

**Sterba**, S.K., Dickstein, S., McHale, J., & Seifer, R. (April, 2005). *Three dimensions of co-parenting in early infancy differentially related to family variables*. Society for Research in Child Development Convention. Atlanta, GA.

**Sterba**, S.K. (August, 2002). *Development of the coparenting rating scales: Relations among co-parenting, marital satisfaction, and family functioning*. Brown University UTRA Research Symposium; Providence, RI.

## **GRANTS**

PI: Individual Ruth L. Kirschstein National Research Service Award. NIMH F31 MH080484-01. 5/07-5/10.  
*Longitudinal Comorbidity: Modeling Symptom, Syndrome, and Impairment Change*. Sponsor: Daniel Bauer.  
Co-Sponsor: Adrian Angold.

Subcontract: *Research to Practice: An Indicated Prevention Program*. NIH R01 DA13666. 8/05 - 8/06.

PI: Denise Hallfors. Pacific Institute for Research and Evaluation. [partially-nested multilevel modeling]

Consultant: *Improving Contraceptive Counseling in the United States*. FPRPA006057-01. 3/13-6/13.

PI: James Jaccard. Department of Health and Human Services. [partially-nested multilevel modeling]

Investigator: *Embedding Working Memory Training within Math Problem Solving Intervention*. IES. R305A150200.  
\$3,496,125. 9/15-8/20 PI: Lynn Fuchs. Department of Special Education.  
12.5% effort per year.

Investigator: *Investigating Social Competence in Youth with Autism: A Multisite RCT*. NIH/NIMH R01MH114906.  
\$784,741 12/17-11/22. PI: Blythe Corbett. Departments of Psychology & Psychiatry.  
25% effort in final year (planned)

Investigator: *Understanding Word-Reading & Calculations Comorbid Learning Disabilities*. NIH/NICHD. R01 HD097772  
\$3,588,797. 9/19-8/24. PI: Doug Fuchs. Department of Special Education.  
12.5% effort per year

Faculty Mentor, Training Grant: *Development of Psychopathology: From Brain and Behavioral Science to Intervention*.  
NIHM T32 MH018921-21A1 7/20-6/25. PI: David Cole. Dept of Psych & Human Devlpt.

Investigator: *Implementing Fraction Intervention Classwide to Address Mathematics Learning Disabilities in Inclusive Classrooms*.  
\$3,589,062. IES NCSER R324R200003. 9/21-8/26. PI: Lynn Fuchs. Dept. of Special Education.  
12.5% effort per year

Co-Sponsor, NIH-F31 FP00003031 Predoctoral NRSA for Clinical Science Ph.D. student Taylor Stevens

Investigator, *Understanding Cognitive-Academic Bidirectionality in Math Learning Disabilities*. \$3,976,483.  
NICHD 1R01HD115592-01A1. 6/01/2025-5/31/2030. PI Marcia Barnes, Dept. of Special Education.  
12.5% effort per year

## **STATISTICAL SOFTWARE TOOLS**

R function "chi\_absfit\_power\_approach4". Contributor.  
<https://doi.org/10.1037/met0000684.supp>

R function "rmsea\_absfit\_power\_approach4". Contributor.  
<https://doi.org/10.1037/met0000684.supp>

R function "r2MLM3". Contributor.  
<https://my.vanderbilt.edu/sonyasterba/software-tools/>

R function "reRegMixR2". Contributor.  
<https://my.vanderbilt.edu/sonyasterba/software-tools/>

R function “r2MLMlong”. Contributor.

<https://my.vanderbilt.edu/sonyasterba/software-tools/>

R function “r2MLMcomp”. Contributor.

<https://my.vanderbilt.edu/sonyasterba/software-tools/>  
<https://cran.r-project.org/web/packages/r2mlm/index.html>,

R package “r2mlm: R-Squared Measures for Multilevel Models.” Contributor.

<https://cran.r-project.org/web/packages/r2mlm/index.html>  
<https://psyarxiv.com/xc4sv/>

R function “regMixR2”. Contributor.

<https://my.vanderbilt.edu/sonyasterba/software-tools/>

R function “modelavgIRT”. Contributor.

<https://my.vanderbilt.edu/sonyasterba/software-tools/>

R function. “npmmApproximation” Contributor.

<https://my.vanderbilt.edu/sonyasterba/software-tools/>

R function “PAVrank” within “semTools” R package. Contributor.

<https://www.rdocumentation.org/packages/semTools/versions/0.5-1/topics/PAVranking>

R function “parcelAllocation” in “semTools” R package (Contributor) implements SAS macro ParcelAlloc (Author)

<https://www.rdocumentation.org/packages/semTools/versions/0.5-4/topics/parcelAllocation>  
<https://my.vanderbilt.edu/sonyasterba/software-tools/>

R function “poolMAlloc” within “semTools” R package. Contributor.

<https://www.rdocumentation.org/packages/semTools/versions/0.4-12/topics/poolMAlloc>

R package “plotSEMM.” Contributor.

<https://cran.r-project.org/web/packages/plotSEMM/index.html>

## **TEACHING – INSTRUCTOR**

Graduate, Applied Latent Class and Mixture Modeling (PSY-GS 8885/3730), Vanderbilt

Graduate, Latent Growth Curve Modeling (PSY-GS 8888/3732), Vanderbilt

Graduate, Quantitative Methods Forum (PSY-GS 8855), Vanderbilt

Undergraduate, Statistical Analysis (Correlation & Regression) (PSY-PC 2120), Vanderbilt

## **ADVISING**

### **Graduate Advising:**

Jason Rights [primary advisee 2014-2019]

Amy Liang [primary advisee 2022-present]

### **Dissertation Chair:**

Jason Rights:

- Awarded the 2022 Anne Anastasi Dissertation Award from APA Division 5
- Awarded Vanderbilt’s 2019 Harvey Culver Wilcoxon Dissertation Award for “the most distinguished doctoral dissertation in any area of psychological inquiry”
- Awarded Vanderbilt’s 2018 Susan Gray Award for the student “first author on the most distinguished scholarly publication”
- Current position: Associate Professor of Quantitative Psychology,

University of British Columbia (UBC)

**Dissertation Committees:**

Eunsoo Cho [SPED; Chair=Compton]  
Cori Perkins [PSYC; Chair=Cole]  
Laurel Lunn [HOD; Chair=Heflinger]  
Holly Wegman [HOD; Chair=Nation]  
Lauren Hampton [SPED; Chair=Kaiser]  
Allison Gilmour [SPED; Chair=Wehby]  
Woo-yeol Lee [PSYC; Chair=Sterba]  
Alexandria Hadd [PSYC; Chair=Rodgers]  
Brian Bernstein [PSYC; Chair=Lubinski]  
Qimin Liu [PSYC; Chair=Cole]  
Madison Hooper [PSYC; Chair=Tomarken]  
Taylor Stevens [PSYC; Chair=Mehari]

Derek Smith [BIOSTAT; Chair=Blume]  
Laura Steacy [SPED; Chair=Compton]  
Adam Voight [HOD; Chair=Nation]  
Tim Drake [LPO; Chair=Goldring]  
Andrew Greer [HOD; Chair=Shinn]  
Mark Lachowicz [PSYC; Chair=Preacher]  
Jason Rights [PSYC; Chair=Sterba]  
Scott Brown [HOD; Chair=Shinn]  
Matthew Naveiras [PSYC; Chair=Cho]  
Haley Yaremych [PSYC; Chair=Preacher]  
Wooliya Kim [SPED; Chair=Logan]  
Gabriella Noreen [PSYC; Chair=Lubinski]

**Masters Thesis Chair:**

Jason Rights  
Amy Liang

**Masters Thesis Committees:**

Adrienne Arrindell [PSYC; Chair=Schlundt]  
Mark Lachowicz [PSYC; Chair=Preacher]  
Woo-yeol Lee [PSYC; Chair=Cho]  
Annie Belloeil [PSYC; Chair=Preacher]  
Evan Sommer [PSYC; Chair=Tomarken]  
Jason Rights [PSYC; Chair=Sterba]  
Amy Liang [PSYC; Chair=Sterba]

**M.Ed. in Quantitative Methods Defense Committees:**

Yue Gao (PSYC; Chair=Hutton)  
Shiyuan Yang (PSYC; Chair=Hutton)  
Shuti Wang (PSYC; Chair=Hutton)  
Alex Nikolaidis-Konstas (PSYC; Chair=Hutton)  
Jack Reiter (PSYC; Chair=Hutton)  
Yuan Fang (PSYC; Chair=Hutton)  
Jordan Henderson (PSYC; Chair=Hutton)

**Comprehensive Exam Committees:**

Laurel Lunn [HOD; Chair=Heflinger]  
Eunsoo Cho [SPED; Chair=Compton]  
Andrew Greer [HOD; Chair=Shinn]  
Derek Smith [BIOSTAT; Chair=Blume]  
Scott Brown [HOD; Chair=Shinn]  
Woo-yeol Lee [PSYC; Chair=Cho]  
Jason Rights [PSYC; Chair=Sterba]  
Madison Hooper [PSYC; Chair=Tomarken]  
Haley Yaremych [PSYCH; Chair=Preacher]  
Wooliya Kim [SPED; Chair=Logan]  
Amy Liang [PSYC; Chair=Sterba]  
Adam Voight [HOD; Chair=Nation]  
Laura Steacy [SPED; Chair=Compton]  
Holly Wegman [HOD; Chair=Nation]  
Lauren Hampton [SPED; Chair=Kaiser]  
Mark Lachowicz [PSYC; Chair=Preacher]  
Alexandria Hadd [PSYC; Chair=Rodgers]  
Qimin Liu [PSYC; Chair=Cole]  
Matthew Naveiras [PSYC; Chair=Cho]  
Madison Hooper [PSYC; Chair=Tomarken]  
Taylor Stevens [PSYC; Chair=Mehari]  
Annie Belloeil [PSYC; Chair=Preacher]

**Undergraduate Honors Thesis Chair:**

Lydia Fuller

**Undergraduate Immersion Project Mentor:**

Lara Russell-Lasalandra  
Travis Ho  
Victoria Zhang  
Jasmine Divinity

### **Undergraduate Honors Thesis Committees:**

Kristie Chang [PSYC; Chair=Schlundt] Lydia Fuller [PSYC; Chair=Sterba]  
Nathan Markiewitz [PSYC; Chair=Steiger] Tom Qian [PSYC; Chair=Smith]  
Keli Hodges [PSYC; Chair=Compas]

### **OTHER EMPLOYMENT**

Research Assistant: 2002-2003 *Durham Child Health and Development Study*. NSF BCS-0126475.  
PI: Martha J. Cox. Center for Developmental Science, UNC-CH.

### **SERVICE – DEPARTMENTAL**

**Director, Quantitative Methods Program**, Vanderbilt, 2017-Present  
**Executive Committee, Dept. of Psychology & Human Development**, Vanderbilt, 2017-Present  
**Primary faculty mentor for two junior faculty**, Vanderbilt, 2021-Present  
**Faculty Review Committee (FRC)**, Vanderbilt, 2025  
**Admissions Committee, Quantitative Methods M.Ed. Program**, Vanderbilt, 2015-Present  
**Website Committee**, Vanderbilt, 2011-Present  
**Faculty-Postdoc Liaison**, Vanderbilt, 2013-Present  
**Panelist, Honors Program**, Vanderbilt, 2025  
**Clinical Psychology Internship Interviewer**, Vanderbilt, 2011-2024 (yearly)  
**Chair of Search Committee, Quantitative Methods Senior Lecturer**, Vanderbilt, 2021-2022  
**Chair of Search Committee, Quantitative Methods Target-of-Opportunity-Hire**, Vanderbilt, 2017-18  
**Search Committee, Quantitative Methods, Tenure-track position**, Vanderbilt, 2015-2016  
**Search Committee, Quantitative Methods, Senior Lecturer position**, Vanderbilt, 2014-2015  
**Search Committee, Quantitative Methods, Dunn (Endowed) Chair**, Vanderbilt, 2014-2016  
**Graduate Interview Weekend Coordinator**, Vanderbilt, 2012  
**Workshops/Lectures/Panels**  
Kennedy Center Statistics and Methodology Core Training Seminar, Vanderbilt (2011)  
Clinical Psychology Brownbag Lecture, Vanderbilt (2011)  
Panelist on obtaining psychology jobs, Vanderbilt (2010, 2011)  
Speaker on Quantitative Psychology, Vanderbilt (PSY-1690, 2013)  
Quantitative Methods Colloquium Lectures, Vanderbilt ('13, '14, '15a,b, '16, '17, '18, '19, '21, '23)  
Mixture Modeling Workshop, Vanderbilt (2021)  
**IRB Board Member**, UNC-CH, 2007-2008  
**Quantitative Research Forum, Student Coordinator**, UNC-CH, 2006-2007  
**Quantitative Program Faculty Search, Student Liaison**, UNC-CH, 2007  
**Quantitative Program Curriculum Review, Student Liaison**, UNC-CH, 2006  
**Graduate/Professional Student Federation, Psychology Representative**, UNC-CH, 2004-2006  
**Women in Science and Engineering (WiSE) Psychology Group Coordinator**, Brown University, 2001-02

### **SERVICE – UNIVERSITY**

**Member, Provost's Follow-On Computing Committee**, Vanderbilt, 2025-present  
**Reviewer, Innovation Catalyst Fund Grants**, Vanderbilt, 2025-Present

**Co-Chair, Vice Provost's Computing Catalyst Committee**, Vanderbilt, 2024-Present

**Advisory Board**, AI Training Days, Vanderbilt, 2024-Present

**Advisory Board, Initiative on the Future of Learning and Generative AI**, Vanderbilt, 2023-Present

**Faculty Advisory Board for ACCRE (Computing Cluster)**, Vanderbilt, 2023-Present

**Faculty Advisor for the Data Science Institute (DSI)**, Vanderbilt, 2022-2025

**Executive Committee, Data Science Institute (DSI)**, Vanderbilt, 2018-Present

**Steering Committee, Undergraduate Data Science Minor**, Vanderbilt, 2021-Present

**Curriculum Committee, Data Science Master's Program**, Vanderbilt, 2023-Present

**Reviewer, Vice Provost's Generative AI Seed Grants**, Vanderbilt, 2024

**Chair of Search Committee: Joint Peabody & Data Science Institute (DSI) open-rank faculty search in “Quantitative Methods,”** 2021-2022

**Search Committee member: Joint Peabody & Data Science Institute (DSI) open-rank faculty search in “Applied Data Science in Education”** 2021-2022

**Discovery Vanderbilt Faculty Focus Groups with Huron Consulting**, 2022

**Chancellor Faculty Fellow Nomination Review Committee**, 2021

**Vice Provost's Data Science Next Generation Committee**, 2020-2021

**Undergraduate Data Science Minor Working Group**, 2020-2021

**Search Committee, Data Science Faculty (DSI/ Political Science joint hire)**, 2018-2019

**Data Science Institute Faculty Fellow**, 2018-present

**Faculty Panel on the “Academic Interview: What do Search Committees Want?”** 2018

**Steering Committee, Quantitative Social Science (QSS) Major**, 2017-2018

**Quantitative Social Science (QSS) Major, Peabody Organizer**, 2017, 2018

**Provost's Data Science Visions Workgroup**, 2017, 2018

**Masters in Data Science, Provost's Taskforce**, 2017, 2018

**Faculty Insight Panel on “Navigating the Path to Tenure”** 2017

## **SERVICE – NATIONAL**

### **Associate Editor**

*Psychological Methods*, 2021-2025

*Multivariate Behavioral Research* 2026-present

### **Editorial Boards:**

*Structural Equation Modeling*, 2021-present

*Multivariate Behavioral Research*, 2014-present

*Development & Psychopathology* 2025-present

*Psychological Methods*, 2013-2025

*Journal of Clinical Child and Adolescent Psychology*, 2011-2013

**Program Chair, APA Division 5 (Quantitative & Qualitative Methods)**. 2016

**Program Committee, APA Division 5 Quantitative & Qualitative Methods)**. 2015, 2016, 2017

**Membership Committee, APA Division 5 (Quantitative & Qualitative Methods)**. 2008, 2009

### **Conference/Grant/Award/Book Reviews:**

Selection committee – APA Dissertation Research Awards, 2018, 2019, 2020, 2021

Selection committee – IMPS Travel award, Psychometric Society Conference, 2015, 2017

Selection committee – IMPS Poster award, Psychometric Society Conference, 2014  
Selection committee – SMEP Travel award, Society of Multivariate Experimental Psychology Conference, 2009  
Submissions reviewer – Society for Research in Child Development (SRCD) Conference, 2012  
Submissions reviewer – American Psychological Association (Div. 5) Conference, 2016, 2017, 2018, 2019  
Grant reviewer – NSF Methodology, Measurement, and Statistics (MMS), 2015  
Grant reviewer – Consortium Cineca, 2010  
Book Reviewer – Routledge, Methodology series, 2015  
Book Reviewer – Guilford, Methodology in the Social Sciences series, 2019, 2020

**Ad Hoc Journal Review:**

*Journal of Consulting and Clinical Psychology; Journal of Abnormal Child Psychology; Journal of Child Psychology and Psychiatry; Developmental Psychology; Child Development Perspectives; Development & Psychopathology; American Journal of Community Psychology; Journal of Abnormal Psychology; Journal of Clinical Child and Adolescent Psychology; Behavior Research Methods; Psychological Methods; Multivariate Behavioral Research; Assessment; Structural Equation Modeling; British Journal of Mathematical and Statistical Psychology; Psychometrika; Journal of Educational and Behavioral Statistics; Journal of Quantitative Criminology; Personality and Social Psychology Bulletin; Journal of the Royal Statistical Society; Methodology*