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Education

Ph.D.	University of Illinois at Urbana-Champaign Psychology (Quantitative Methods)	1999
M.S.	University of Illinois at Urbana-Champaign Statistics	1995
B.A.	Calvin College Psychology/Mathematics	1992

Positions Held

Nancy C. Hoefs-Bascom Professor of Education, Department of Educational Psychology,
Quantitative Methods Area, University of Wisconsin-Madison, 2019-present
Professor, Department of Educational Psychology, Quantitative Methods Area, University of
Wisconsin-Madison, 2008-present
Associate Professor, Department of Educational Psychology, Quantitative Methods Area,
University of Wisconsin-Madison, 2004-2008
Assistant Professor, Department of Educational Psychology, Quantitative Methods Area,
University of Wisconsin-Madison, 1999-2004
Affiliate Faculty, Department of Psychology, 2004-present
Faculty, Interdisciplinary Training Program in Education Sciences (ITP), 2004-present

Honors and Awards

President, Psychometric Society, 2019-2021
Kellett Mid-Career Award, University of Wisconsin, Madison, 2019-2024
Vilas Associates Award, University of Wisconsin, Madison 2015-2017
Treasurer, Psychometric Society, 2014-2018
Best Reviewer Award, Psychometrika, July, 2016; July 2018
Outstanding Reviewer Award, Journal of Educational and Behavioral Statistics, April, 2011;
April 2013; April 2015; April 2016; April 2020, April, 2023
University of Wisconsin Chancellor's Distinguished Teaching Award, April 2009
University of Wisconsin Teaching Academy Fellow, April, 2005-present
Jason Millman Promising Scholar Award, awarded by the National Council on Measurement
in Education (NCME) in recognition of scholarly research in the field of applied
measurement during the early stages of career, April, 2003
Maurice Tatsuoka Scholar, University of Illinois at Urbana-Champaign, 1997-1998

Publications (Psychometrics/Methods)

- Lyu, W., & **Bolt, D.** (2024). A psychometric perspective on the associations between response accuracy and response time residuals. *Journal of Intelligence*, 12(8), 74.
- Liao, X., **Bolt, D.M.**, & Kim, J-S. (2024). Curvilinearity in the reference composite and practical implications for measurement. *Journal of Educational Measurement*.
- Huang, Q., **Bolt, D.M.**, & Lyu, W. (2024). Investigating item complexity as a source of cross-national DIF in TIMSS Math and Science. *Large-scale Assessments in Education*.
- Liao, X. & **Bolt, D.M.** (2024). Guesses and slips as proficiency-related phenomena and impacts on parameter invariance. *Educational Measurement: Issues and Practice*.
- Huang, Q., & **Bolt, D.M.** (2024). Unipolar IRT and the Author Recognition Test (ART). *Behavior Research Methods*, 1-18.
- Lyu, W. & **Bolt, D.M.** (2023). Rejoinder on commentaries to Lyu, Bolt & Westby's "Exploring the effects of item specific factors in sequential and IRTree models". *Psychometrika*.
- Lyu, W., **Bolt, D.M.** & Westby, S. (2023). Exploring the effects of item specific factors in sequential and IRTree models. *Psychometrika*.
- Lyu, W. & **Bolt, D. M.** (2023). Predicting response time on self-report rating scale assessments of noncognitive constructs. *Behavior Research Methods*.
- Zou, T. & **Bolt, D.M.** (2023). Person misfit and person reliability in rating scale measures: The role of response styles. *Measurement: Interdisciplinary Research and Practice*.
- Kim, N. & **Bolt, D.M.** (2023). Evaluating psychometric differences between fast versus slow responses on rating scale items. *Journal of Educational and Behavioral Statistics*.
- Gorney, K., Wollack, J. A., & **Bolt, D. M.** (2023). Using item scores and distractors to detect test speededness. *Applied Psychological Measurement*, 01466216231182149.
- Huang, Q., & **Bolt, D.M.** (2023). Relative robustness of CDMs and (M) IRT in measuring growth in latent skills. *Educational and Psychological Measurement*, 83(4), 808-830.
- Bolt, D.M.** & Liao, X. (2022). Item complexity: A neglected psychometric feature of test items? *Psychometrika*.
- Huang, Q. & **Bolt, D.M.** (2022). The potential for interpretational confounding in cognitive diagnosis models. *Applied Psychological Measurement*.
- Kim, N., **Bolt, D.M.** & Wollack, J. (2022). Noncompensatory MIRT for passage-based tests. *Psychometrika*.
- Lyu, W., & **Bolt, D. M.** (2022). A psychometric model for respondent-level anchoring on self-report rating scale instruments. *British Journal of Mathematical and Statistical Psychology*.
- Bolt, D.M.** & Liao, X. (2021). On the positive correlation between DIF and difficulty: A new theory on the correlation as methodological artifact. *Journal of Educational Measurement*.
- Liao, X. & **Bolt, D.M.** (2021). Item characteristic curve asymmetry---A better way to accommodate slips and guesses than a 4-parameter model? *Journal of Educational and Behavioral Statistics*.
- Zou, T., & **Bolt, D. M.** (2021). Item level measurement of extreme response style. In *Quantitative Psychology : The 85th Annual Meeting of the Psychometric Society* (pp. 153-161). Springer, New York.
- Bolt, D.M.** (2021). Commentary on Reardon, Kalogrides and Ho's "Validation methods for aggregate-level test scale linking: A case study mapping school district test score

- distributions to a common scale.” *Journal of Educational and Behavioral Statistics*.
- Bolt, D.M.**, Wang, Y.C., Meyer, R. & Pier, L. (2020). An IRT mixture model for rating scale confusion associated with negatively worded items in measures of social-emotional learning. *Applied Measurement in Education*.
- Kim, N. & **Bolt, D.M.** (2020). A mixture IRTree model for extreme response style: Accounting for response process uncertainty. *Educational and Psychological Measurement*.
- Bolt, D.M.**, Kim, N., Wollack, J. A., Pan, Y., Eckerly, C., & Sowles, J. (2020). A psychometric model for discrete-option multiple choice items. *Applied Psychological Measurement*, 44, 33-48.
- Kim, N., **Bolt, D.M.**, Wollack, J., Pan, Y., Eckerly, C. & Sowles, J. (2019). Modeling examinee heterogeneity in discrete option multiple choice items. In M. Wiberg, S. Culpepper, R. Janssen, J. González & D. Molenaar (Eds.). *Quantitative Psychology Research: The 83rd Annual Meeting of the Psychometric Society, New York, New York, 2018* (pp. 383-392) Springer: New York.
- Bolt, D.M.**, Lee, S., Wollack, J. A., Eckerly, C., & Sowles, J. (2018). Application of asymmetric IRT modeling to discrete-option multiple-choice test items. *Frontiers in Psychology*, 9, 2175. <https://doi.org/10.3389/fpsyg.2018.02175>
- Bolt, D.M.** (2019). *Bifactor MIRT as an Appealing and Related Alternative to CDMs in the Presence of Skill Attribute Continuity*. In M. von Davier and Y-S. Lee (Eds.). *Handbook of Diagnostic Classification Models*.
- Adams, D.J., **Bolt, D.M.**, Deng, S., Smith, S.S., & Baker, T.B. (2019). Using multidimensional IRT to evaluate how response styles impact measurement. *British Journal of Mathematical and Statistical Psychology*.
- Bolt, D.M.** & Kim, J-S. (2018). Parameter invariance and skill attribute continuity in the DINA model. *Journal of Educational Measurement*, 55, 264-280.
- Deng, S., McCarthy, D.E., Piper, M.E., Baker, T.B. & **Bolt, D.M.** (2018). Extreme response style and the measurement of intra-individual variability in affect. *Multivariate Behavioral Research*, 53, 199-218.
- Lee, S. & **Bolt, D.M.** (2018) An alternative to the lower asymptote parameter: Using asymmetric ICCs to address guessing effects in multiple-choice items. *Journal of Educational Measurement*, 55, 90-111.
- Lee, S. & **Bolt, D.M.** (2018). Asymmetric item characteristic curves and item complexity: Insights from simulation and real data analyses. *Psychometrika*, 83, 453-475.
- Deng, S. & **Bolt, D.M.** (2017). Rating scale format and item sensitivity to response style in large-scale assessments. In van der Ark, L.A., Wiberg, M., Culpepper, S.A., Douglas, J.A. & Wang, W-C. (Eds.). *Quantitative Psychology Research: The 81st Annual Meeting of the Psychometric Society, Asheville, North Carolina, 2016*. Switzerland: Springer International Publishing.
- Bolt, D.M.**, Dowling, N.M., Shih, Y-S., & Loh, W-Y. (2017). Using Blinder-Oaxaca decomposition to explore differential item functioning: Application to PISA 2009 Reading. In Jiao, H. & Lissitz, R. W. (Eds.). *Test fairness in the new generation of large-scale assessment*. Information Age Publisher.
- Bolt, D.M.** & Adams, D.J. (2017). Exploring rubric-related multidimensionality in polytomously-scored test items. *Applied Psychological Measurement*, 41, 163-177.
- Le, T., **Bolt, D.M.**, Camburn, E., Goff, P., & Rohe, K. (2017). Latent factors in student-

- teacher interaction factor analysis. *Journal of Educational and Behavioral Statistics*, 42, 115-144.
- Bolt, D.M.**, Kim, J-S., Blanton, M. & Knuth, E. (2016). Applications of item response theory in mathematics education research. In A. Izsák, J. T. Remillard, & J. Templin (Eds.), *Psychometric methods in mathematics education: Opportunities, challenges, and interdisciplinary collaborations*. Journal for Research in Mathematics Education monograph series. Reston, VA: National Council of Teachers of Mathematics.
- van der Ark, A. L., **Bolt, D. M.**, Wang, W.-C., Douglas, J. A., & Wiberg, M. (Eds.), (2016). *Quantitative psychology research: The 80th Annual Meeting of the Psychometric Society, Beijing, 2015*. Switzerland: Springer International Publishing.
- Lee, S. & **Bolt, D.M.** (2016). Using the asymmetry of item characteristic curves (ICCs) to learn about underlying item response processes. In van der Ark, L.A., Bolt, D.M. & Wang, W-C., Douglas, J.A. & Wiberg, M. (Eds.). *Quantitative Psychology Research: The 80th Annual Meeting of the Psychometric Society, Beijing, 2015*. Switzerland: Springer International Publishing.
- Dowling, N.M., **Bolt, D.M.** & Deng, S. (2016). Distinguishing item sensitivity to between-person differences versus within-person change over time: An illustration using the ADAS-Cog. *Psychological Assessment*, 28, 1576-1585.
- Deng, S. & **Bolt, D.M.** (2016). A sequential IRT model for multiple-choice items and a multidimensional extension. *Applied Psychological Measurement*, 40, 243-257.
- Dowling, N. M., **Bolt, D.M.**, Deng, S., & Li, C. (2016). Measurement and control of bias in patient reported outcomes using multidimensional item response theory. *BMC Medical Research Methodology*, 16(1), 1.
- Bolt, D.M** (2015). Item response models for computer-based testing. In F. Drasgow (Ed.) *Technology and Testing*. NCME Book Series.
- Bolt, D.M.** (2015). Surveys: Extreme Response. In J.D. Wright (Ed.), *International Encyclopedia of the Social and Behavioral Sciences*, 2nd ed. (pp. 758-763). doi:10.1016/B978-0-08-097086-8.44065-1
- Lu Y. & **Bolt, D.M.** (2015). Examining the achievement-attitude paradox in PISA using a multilevel multidimensional IRT model for extreme response style. *Large Scale Assessments in Education*.
- van der Ark, L.A., **Bolt, D.M.** & Wang, W-C., Douglas, J.A. & Chow, S.-M. (2015). *Quantitative Psychology Research: The 79th Annual Meeting of the Psychometric Society*. New York: Springer.
- Millsap, R.E., **Bolt, D.M.**, van der Ark, L.A. & Wang, W-C. (2015). *Quantitative Psychology Research: The 78th Annual Meeting of the Psychometric Society*. New York: Springer.
- Bolt, D.M.**, Lu, Y., & Kim, J-S. (2014). Measurement and control of response styles using anchoring vignettes: a model-based approach. *Psychological Methods*, 19, 528-541.
- Bolt, D.M.**, Deng, S., & Lee, S. (2014). IRT model misspecification and measurement of growth in vertical scaling. *Journal of Educational Measurement*, 51, 141-162.
- Millsap, R. E., Van der Ark, L. A., **Bolt, D. M.**, & Woods, C. M. (Eds.) (2013). *New developments in quantitative psychology*. New York: Springer.
- Bolt, D.M.**, Wollack, J.A. & Suh, Y-S. (2012). Application of a multidimensional nested logit model to multiple-choice tests. *Psychometrika*, 77, 339-357.
- Bolt, D.M**, Piper M.E., Theobald W.E., & Baker T.B. (2012). Why two smoking cessation agents work better than one: Role of craving suppression. *Journal of Consulting & Clinical*

- Psychology*, 80, 54-65.
- Bolt, D.M.** & Newton, J.R. (2011). Multi-scale measurement of extreme response style. *Educational and Psychological Measurement*, 71, 814-833.
- Suh, Y-S. & **Bolt, D.M.** (2011). A nested logit modeling approach for investigating distractors as causes of differential item functioning. *Journal of Educational Measurement*, 48, 188-205.
- Kettler, R.J., Rodriguez, M.R., **Bolt, D.M.**, Elliott, S.E., Beddow, P.A. & Kurz, A. (2011). Modified multiple-choice items for alternate assessments: Reliability, difficulty, and differential boost. *Applied Measurement in Education*, 24, 210-234.
- Suh, Y-S. & **Bolt, D.M.** (2010). Nested logit models for multiple-choice item response data. *Psychometrika*, 75, 454-473.
- Bolt, D.M.**, Ysseldyke, J., & Patterson, M.J. (2010). Teachers and schools as sources of variability and sustainability in implementing progress monitoring. *School Psychology Review*, 39, 612-630.
- Johnson, T. R. & **Bolt, D.M.** (2010). On the use of factor-analytic multinomial logit item response models to account for individual differences in response style. *Journal of Educational and Behavioral Statistics*, 35, 92-114.
- Bolt, D.M.** & Johnson, T. R. (2009). Addressing score bias and DIF due to individual differences in response style. *Applied Psychological Measurement*, 33, 335-352.
- Bolt, D.M.**, Piper M.E., McCarthy D.E., Fiore M.C., Smith S.S., Baker T.B. (2009). The Wisconsin Predicting Patients' Relapse (WI-PREPARE) Questionnaire. *Nicotine & Tobacco Research*, 11, 481-492.
- Park, C-H. & **Bolt, D.M.** (2008). Application of multilevel IRT to investigate cross-national skill profiles on TIMSS 2003. *IERI monograph Series: Issues and methodologies in large-scale assessments (vol. 1; pp. 71-96)*. IER Institute and Educational Testing Service.
- Wells, C.S. & **Bolt, D.M.** (2008). Investigation of a nonparametric procedure for assessing goodness-of-fit in item response theory. *Applied Measurement in Education*, 21, 22-40.
- Bolt, D.** (2007). The present and future of IRT-based cognitive diagnostic models (ICDMs) and related methods. *Journal of Educational Measurement*, 44, 377-383.
- Kim, J-S. & **Bolt, D.M.** (2007). Markov chain Monte Carlo estimation of item response models. *Educational Measurement: Issues and Practice*, 26, 38-51.
- Bolt, D.M.** (2007). Analyzing the Psychopathy Checklist-Revised (PCL-R) using factor analysis and item response theory: Overview and recent advances. In J.Yuille & H. Herve (Eds.) *Psychopathy in the Third Millennium: Theory and Research (pp.105-139)*. Lawrence Erlbaum.
- Bolt, D.M.**, Hare, R.D. & Neumann, C.S. (2007). Score metric equivalence of the Psychopathy Checklist-Revised (PCL-R) across criminal offenders in North America and the United Kingdom: A critique of Cooke, Michie, Hart and Clark (2005) and new analyses. *Assessment*, 14, 44-56.
- Bolt, D.M.**, & Gierl, M.J. (2006). Application of a regression correction procedure to three nonparametric tests of DIF: Implications for local and global DIF detection. *Journal of Educational Measurement*, 43, 313-333.
- Li, Y. , **Bolt, D.M.** & Fu, J. (2006). A comparison of alternative models for testlets. *Applied Psychological Measurement*, 30, 3-21.
- Mroch, A. & **Bolt, D.M.** (2006). A simulation comparison of parametric and nonparametric dimensionality detection procedures. *Applied Measurement in Education*, 19, 67-91.

- Bolt, D.M.** & Kim, J-S. (2005). Hierarchical IRT modeling. In B. Everitt & D. Howell (Eds.), *Encyclopedia of statistics in the behavioral sciences, Vol 2* (pp.805-810). Wiley.
- Bolt, D.M.** (2005). Limited and full-information IRT estimation. In A. Maydeu-Olivares and J. McArdle (Eds.), *Contemporary Psychometrics* (pp.27-71). Lawrence-Erlbaum.
- Li, Y. , **Bolt, D.M.** & Fu, J. (2005). A test characteristic curve linking method for the testlet model. *Applied Psychological Measurement, 29*, 340-356.
- Cohen A.S., & **Bolt, D.M.** (2005). A mixture model analysis of differential item functioning. *Journal of Educational Measurement, 42*, 133-148.
- Bolt, D.M.**, Hare, R.D., Vitale, J., & Newman, J. (2004). A multigroup item response theory analysis of the Psychopathy Checklist-Revised (PCL-R). *Psychological Assessment, 16*, 155-168.
- Bolt, D.M.** & Lall, V.F. (2003). Estimation of compensatory and noncompensatory multidimensional IRT models using Markov chain Monte Carlo. *Applied Psychological Measurement, 27*, 395-414.
- Bolt, D.M.**, Cohen, A.S., & Wollack, J.A. (2002). Item parameter estimation under conditions of test speededness: Application of a mixture Rasch model with ordinal constraints. *Journal of Educational Measurement, 39*, 331-348.
- Wollack, J.A., **Bolt, D.M.**, Cohen, A.S., & Lee, Y-S. (2002). Recovery of item parameters in the nominal response model: A comparison of marginal maximum likelihood estimation and Markov chain Monte Carlo estimation. *Applied Psychological Measurement, 26*, 337-350.
- Bolt, D.M.** (2002). A Monte Carlo comparison of parametric and nonparametric polytomous DIF detection methods. *Applied Measurement in Education, 15*, 113-142.
- Bolt, D.M.**, Cohen, A.S., & Wollack, J.A. (2001). A mixture item response model for multiple-choice data. *Journal of Educational and Behavioral Statistics, 26*, 381-409.
- Bolt, D.M.** (2001). Conditional covariance-based representation of multidimensional test structure. *Applied Psychological Measurement, 25*, 244-257.
- Gierl, M.J. & **Bolt, D.M.** (2001). Illustrating the use of nonparametric regression to assess differential item and bundle functioning across multiple groups. *International Journal of Testing, 3&4*, 249-270.
- Bolt, D.M.** (2000). A SIBTEST approach to testing DIF hypotheses using experimentally designed test items. *Journal of Educational Measurement, 37*, 307-327.
- Bolt, D.M.** & Rounds, J. (2000). Advances in psychometric theory and methods. In S.D Brown & R.W. Lent (Eds.), *Handbook of Counseling Psychology* (pp. 140-176). New York: John Wiley & Sons.
- Bolt, D.M.** (1999). Evaluating the effects of multidimensionality on IRT true-score equating. *Applied Measurement in Education, 12*, 383-406.
- McDonald, R.P. & **Bolt, D.M.** (1998). The determinacy of variables in structural equation models. *Multivariate Behavioral Research, 33*, 385-401.
- Stout, W., Li, H., Nandakumar, R., & **Bolt, D.** (1997). MULTISIB: A procedure to investigate DIF in intentionally two-dimensional data. *Applied Psychological Measurement, 21*, 195-213.
- Bolt, D.** & Stout, W. (1996). Differential item functioning: Its multidimensional model and resulting SIBTEST detection procedure. *Behaviormetrika, 23*, 67-95.

Publications (Substantive/Consulting)

- Schlam, T. R., Baker, T. B., Piper, M. E., Cook, J. W., Smith, S. S., Zwaga, D., **Bolt, D.M.**.... & Fiore, M. C. (2024). What to do after smoking relapse? A sequential multiple assignment randomized trial of chronic care smoking treatments. *Addiction*.
- Piro-Gambetti, B., Greenlee, J., **Bolt, D.**, Papp, L. M., & Hartley, S. L. (2024). Parent-couple satisfaction, parent depression, and child mental health in families with autistic children. *Frontiers in Psychiatry*, 14, 1306456.
- Hickey, E. J., DaWalt, L. S., **Bolt, D.**, Hong, J., Song, J., Lounds Taylor, J., & Mailick, M. R. (2024). Impact of the Great Recession on Adults With Autism and Their Mothers. *American Journal on Intellectual and Developmental Disabilities*, 129(1), 26-40.
- Flook, L., Hirshberg, M. J., Gustafson, L., McGehee, C., Knoepfel, C., Tello, L. Y., **Bolt, D.M.** . . & Davidson, R. J. (2024). Mindfulness training enhances students' executive functioning and social emotional skills. *Applied Developmental Science*, 1-20.
- Goldberg, S. B., Jiwani, Z., **Bolt, D.M.**, Riordan, K. M., Davidson, R. J., & Hirshberg, M. J. (2023). Evidence for Bidirectional, cross-lagged associations between alliance and psychological distress in an unguided mobile-health intervention. *Clinical Psychological Science*, 21677026231184890.
- Baker, T. B., **Bolt, D.M.**, Smith, S. S., Piasecki, T. M., Conner, K. L., Bernstein, S. L., ... & Fiore, M. C. (2023). The Relationship of COVID-19 Vaccination with Mortality Among 86,732 Hospitalized Patients: Subpopulations, Patient Factors, and Changes over Time. *Journal of General Internal Medicine*, 1-8.
- Baker, T. B., Loh, W. Y., Piasecki, T. M., **Bolt, D. M.**, Smith, S. S., Slutske, W. S., ... & Fiore, M. C. (2023). A machine learning analysis of correlates of mortality among patients hospitalized with COVID-19. *Scientific Reports*, 13(1), 4080.
- Garbacz, S. A., Stormshak, E. A., McIntyre, L. L., **Bolt, D.**, & Huang, M. (2022). Family-Centered Prevention During Elementary School to Reduce Growth in Emotional and Behavior Problems. *Journal of Emotional and Behavioral Disorders*, 10634266221143720.
- Shiyanbola, O. O., Rao, D., Kuehl, S., **Bolt, D.**, Ward, E., & Brown, C. (2022). Psychometric evaluation of a culturally adapted illness perception questionnaire for African Americans with type 2 diabetes. *BMC Public Health*, 22(1), 741.
- Fiore, M. C., Smith, S. S., Adsit, R. T., **Bolt, D. M.**, Conner, K. L., Bernstein, S. L., ... & Baker, T. B. (2022). The first 20 months of the COVID-19 pandemic: Mortality, intubation and ICU rates among 104,590 patients hospitalized at 21 United States health systems. *PloS ONE*, 17(9), e0274571.
- Piasecki, T. M., Smith, S. S., Baker, T. B., Slutske, W. S., Adsit, R. T., **Bolt, D.M.**, ... & Fiore, M. C. (2022). Smoking Status, Nicotine Medication, Vaccination, and COVID-19 Hospital Outcomes: Findings from the COVID EHR Cohort at the University of Wisconsin (CEC -UW) Study. *Nicotine & Tobacco Research*, ntac201.
- Nolan, M. B., Piasecki, T. M., Smith, S. S., Baker, T. B., Fiore, M. C., Adsit, R. T., ... & Slutske, W. S. (2022). Relations of Current and Past Cancer with Severe Outcomes among 104,590 Hospitalized COVID-19 Patients: The COVID EHR Cohort at the University of Wisconsin. *Cancer Epidemiology, Biomarkers & Prevention*, OF1-OF10.
- Hume, K., Odom, S. L., Steinbrenner, J. R., Smith DaWalt, L., Hall, L. J., Kraemer, B., ... & **Bolt, D.M.** (2022). Efficacy of a school-based comprehensive intervention program for adolescents with autism. *Exceptional Children*, 88(2), 223-240.

- Piper, M. E., Baker, T. B., Zwaga, D., **Bolt, D. M.**, Kobinsky, K. H., & Jorenby, D. E. (2021). Understanding contexts of smoking and vaping among dual users: analysis of ecological momentary assessment data. *Addiction*.
- Baker, T. B., Piper, M. E., Smith, S. S., **Bolt, D.M.**, Stein, J. H., & Fiore, M. C. (2021). Effects of Combined Varenicline With Nicotine Patch and of Extended Treatment Duration on Smoking Cessation: A Randomized Clinical Trial. *Journal of the American Medical Association*, 326(15), 1485-1493.
- Ford, J. H., Kaur, A., Rao, D., Gilson, A., **Bolt, D. M.**, Garneau, H. C., ... & McGovern, M. P. (2021). Improving medication access within integrated treatment for individuals with co-occurring disorders in substance use treatment agencies. *Implementation research and practice*, 2, 26334895211033659.
- Shiyanbola, O. O., Rao, D., **Bolt, D.**, Brown, C., Zhang, M., & Ward, E. (2021). Using an exploratory sequential mixed methods design to adapt an Illness Perception Questionnaire for African Americans with diabetes: the mixed data integration process. *Health Psychology and Behavioral Medicine*, 9(1), 796-817.
- Ellis Weismer S, Tomblin JB, Durkin MS, **Bolt D**, Palta M. (2021). A preliminary epidemiologic study of social (pragmatic) communication disorder in the context of developmental language disorder. *International Journal of Language Communication Disorders*. doi: 10.1111/1460-6984.12664. Epub ahead of print. PMID: 34383380.
- Smith, S. S., Piper, M. E., **Bolt, D. M.**, Kaye, J. T., Fiore, M. C., & Baker, T. B. (2021). Revision of the Wisconsin Smoking Withdrawal Scale: Development of brief and long forms. *Psychological Assessment*, 33(3), 255.
- Cook, J. W., Baker, T. B., Fiore, M. C., Collins, L. M., Piper, M. E., Schlam, T. R., **Bolt, D.M.** ... & Mermelstein, R. (2021). Evaluating four motivation-phase intervention components for use with primary care patients unwilling to quit smoking: a randomized factorial experiment. *Addiction*.
- Goldberg, S. B., **Bolt, D. M.**, & Davidson, R. J. (2021). Data Missing Not at Random in Mobile Health Research: Assessment of the Problem and a Case for Sensitivity Analyses. *Journal of Medical Internet Research*, 23(6), e26749.
- Enright, R., Rique, J., Lustosa, R., Song, J. Y., Komoski, M. C., Batool, I., **Bolt, D.**,... & Costuna, E. (2021). Validating the Enright Forgiveness Inventory–30 (EFI-30). *European Journal of Psychological Assessment*.
- Baker, T.B., **Bolt, D.M.** & Smith, S.S. (2021). Barriers to building more effective treatments: Negative interactions among smoking-intervention components. *Clinical Psychological Science*.
- Kent, R. D., Eichhorn, J., Wilson, E. M., Suk, Y., **Bolt, D.M.**, & Vorperian, H. K. (2021). Auditory-Perceptual Features of Speech in Children and Adults With Down Syndrome: A Speech Profile Analysis. *Journal of Speech, Language, and Hearing Research*, 1-19.
- Goldberg, S. B., Imhoff-Smith, T., **Bolt, D. M.**, Wilson-Mendenhall, C. D., Dahl, C. J., Davidson, R. J., & Rosenkranz, M. A. (2020). Awareness, connection and insight: Testing the Efficacy of a Multicomponent, Self-Guided, Smartphone-Based Meditation App: Three-Armed Randomized Controlled Trial. *JMIR Mental Health*, 7(11), e23825.
- Vandell, D.L., Simpkins, S.D., Pierce, K.M., Brown, B.B., **Bolt, D.** & Reisner, E. (2020). Afterschool programs, extracurricular activities, and unsupervised time: Are patterns of participation linked to children's academic and social wellbeing?, *Applied Developmental Science*, DOI: 10.1080/10888691.2020.1843460

- Schlam, T. R., Baker, T. B., Smith, S. S., **Bolt, D. M.**, McCarthy, D. E., Cook, J. W., ... & Piper, M. E. (2020). Electronically Monitored Nicotine Gum Use Before and After Smoking Lapses: Relations with Lapse and Relapse. *Nicotine & Tobacco Research*.
- Mosher, C. L., Smith, J. B., McManigle, W. C., Giovacchini, C. X., Shofer, S. L., Jha, P., ... **Bolt, D.M.**, ... & Anderson, R. N. (2020). Association of electronic cigarette use with smoking habits, demographic factors, and respiratory symptoms. *American Journal of Respiratory and Critical Care Medicine*, 202(4), 595-597.
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Editorial and Advisory Activities

Associate Editor: Psychometrika (2020-present)

Associate Editor: British Journal of Mathematical and Statistical Psychology (2019-present)

Associate Editor: AERA Open (2014-2021)

Associate Editor: Applied Psychological Measurement (2012-2018)

Editorial Board: Educational and Psychological Measurement (2006-present); Journal of Educational Measurement (2008-present), Journal of Educational and Behavioral Statistics (2010-present); American Journal on Intellectual and Developmental Disabilities (2008-2010), Journal of Educational Psychology (2010-2014); Journal of Abnormal Psychology (2004-2011)

Advisory Boards:

Technical Advisory Committee, ACT Inc. (2015-present)

Design & Analysis Committee, National Assessment of Educational Progress (NAEP; 2019-present)

Advisory Board, G.Duncan & D Vandell (PIs) *Understanding Variation in the Impacts of Human Capital Interventions on Children & Youth* (HD065704 P01; 2012-2016)

Advisory Board, E. Jacobson (PI) *Assessing the Structure of Knowledge in Teaching Mathematics* (NSF; 2016-present)

Advisory Board, A. Nelson & F. Lawrenz (PIs) *Collaboration in the 21st Century (C2C) Project* (NSF; 2015-2016)

Advisory Board, A. Byars-Winston (PI) *What Matters in Mentoring? Testing and Measuring a Mentor Training Intervention* (NIH; 2012)

External Evaluator: External Reviewer, Department of Educational Psych Review, University of Texas, Austin, November 2015

Evaluator, A.Iszak (PI) *An Interdisciplinary Conference on Assessment in K-12 Mathematics:*

Collaborations Between Mathematics Education and Psychometrics (NSF) 2011-2012.

Ad Hoc Journal Reviewer: Addiction, Annals of Applied Statistics, Applied Psychological Measurement, Applied Measurement in Education, Assessment, British Journal of Mathematical and Statistical Psychology, Cognition and Instruction, Developmental Psychology, Educational Assessment, Educational Measurement: Issues and Practice, Educational and Psychological Measurement, European Journal of Psychological Assessment, Frontiers in Psychology, Human Communication Research, International Journal of Testing, Journal of Classification, Journal of Educational Measurement, Journal of Educational and Behavioral Statistics, Journal of the American Statistical Association, Journal of Abnormal Psychology, Journal of Family Psychology, Journal of Intelligence, Journal of Mathematical Psychology, Journal of Personality and Social Psychology, Journal of Research in Mathematics Education, Multivariate Behavioral Research, Nicotine and Tobacco Research, Psychological Assessment, Psychological Methods, Psychometrika, Rehabilitation Counseling Bulletin, Review of Educational Research, Review of Research in Education, Science Education, Sociological Methodology, Structural Equation Modeling,

Grant Review Panels/ Ad Hoc Review: Institute of Educational Sciences (IES), National Institute of Mental Health (NIMH), National Science Foundation(NSF), Spencer Foundation, National Research Foundation of Korea.

External Consulting: Educational Testing Service, Pearson VUE, Renaissance Learning, Education Analytics, Inc., MultiHealth Systems Inc.

Recent Invited Presentations/Workshops (Last Ten Years)

- “Self-report rating scale measurement: Concerns and recommendations for improved practice”, Presentation at Department of Educational Psychology Colloquium Series, February 27, 2023.
- “On the positive correlation between DIF and difficulty: A new theory on the correlation as methodological artifact”, Presentation at the Tucker-Holland Seminar Workshop, Educational Testing Service, January 18, 2023
- “A Psychometric Model for Discrete Option Multiple Choice Items”, Presentation at the Psychometrics Colloquium Series, Morgan State University, February 10, 2022.
- “Item Complexity: A Neglected Psychometric Feature of Test Items?” International Meeting of the Psychometric Society Presidential Address, July 23, 2021
- “Models and Methods for the Study and Control of Response Styles in Self-Report Rating Scales”, Workshop for SMiP Program, University of Mannheim, Germany, June 5-6, 2019.
- “Item Complexity as a Cause of Score Deceleration in the Measurement of Student Growth”, Department of Psychology Colloquium, University of Mannheim, Germany, June, 2019.
- “A Psychometric Model for Discrete-Option Multiple-Choice (DOMC) items,” Presentation at Conference on Statistical Methods for Innovative Testing and Learning, Columbia University, July, 2018
- “Parameter Invariance and Skill Attribute Continuity in CDMs: Bifactor MIRT as an Appealing Alternative”, Presentation at the Fifth Conference on Statistical Methods in Psychometrics, Department of Statistics, Columbia University, New York, November, 2017.
- “Statistical Models for Educational and Psychological Test Data”, Calvin College Mathematics

Colloquium, March 2016

“Using Oaxaca-Blinder Decomposition to Explore Underlying Causes of DIF”, University of Maryland, October, 2015

“Vertical Scales and The Score Deceleration Problem in Measuring Student Growth”

Education Department, University of California, Irvine, June 1, 2015

“The Controversy over Null Hypothesis Significance Testing” (With Peter Steiner, David Kaplan), Wisconsin Center for Educational Research (WCER), University of Wisconsin, Madison, April 2015.

“Item Complexity and Samejima’s Logistic Positive Exponent Model”, Fudan University, Shanghai, China, June, 2014.

“Measurement and Control of Response Styles Using Anchoring Vignettes: A Model-Based Approach” Invited talk at the International Meeting of the Psychometric Society (IMPS), Arnhem, The Netherlands, July, 2013.

“Measurement and Control of Response Styles Using Anchoring Vignettes: A Model-Based Approach”, QSG Series, Psychology Department, University of Notre Dame, April 11, 2013

Teaching

Ed Psych 762: Experimental Design (Fall, '22)

Ed. Psych 771: Test Construction (Fall '07, Fall '11, Fall '12, Fall '14, Fall '15, Fall '17, Fall '20, Fall '21)

Ed. Psych 773: Factor Analysis, Multidimensional Scaling, and Cluster Analysis
(Spring '99, '00, '01, '02, '03, '05, '06, '07, '10, '14, '19, '21, '22, '23)

Ed. Psych 870: Test Theory I (Fall '99, '01, '03, Spring, '18, Fall '19)

Ed. Psych 871: Test Theory II (Spring '00, '02, '08, '11; Fall '13; Spring '20)

Ed. Psych 960: Structural Equation Modeling (Fall '99, '00, '01, '02, '04, '05, Spring '12, Spring '13)

Ed. Psych 964: Hierarchical Linear Modeling (Spring '01, Fall '02, Fall '03, Fall '04, Fall '05, Fall '06, Fall '07, Fall '08, Fall '09, Spring '16)