

## **LESLIE A. RUTKOWSKI**

## **Curriculum Vitae**

Associate Professor  
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### **EDUCATION**

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**Ph.D. Educational Psychology**, University of Illinois, 2007  
**Specialization:** Applied statistics & measurement

**M.S. Statistics**, University of Illinois, 2005

**B.A. Economics, *summa cum laude***, University of New Mexico, 2003

### **RESEARCH EXPERIENCE**

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- 2018 – **Associate Professor of Inquiry Methodology**, Counseling and Educational Psychology, Indiana University, Bloomington, IN
- 2015 – 2017 **Professor of Educational Measurement**, Centre for Educational Measurement at the University of Oslo, Norway
- 2010 – 2015 **Assistant Professor of Inquiry Methodology**, Counseling and Educational Psychology, Indiana University, Bloomington, IN
- 2007 – 2009 **Research Associate**, Research and Analysis Unit, IEA-DPC, Hamburg, Germany
- 2006 – 2007 **Statistical Research Consultant**, Women's Health Sciences Division National Center for Post-Traumatic Stress Disorder, Boston, MA
- 2006 **Research Analyst / Statistician**, Boston Veterans Affairs Research Service, Boston, MA
- 2004 – 2006 **Research Assistant**, Educational Psychology University of Illinois, Champaign, IL

### **TEACHING EXPERIENCE**

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- 2018 – **Associate Professor of Inquiry Methodology**, Counseling and Educational Psychology, Indiana University, Bloomington, IN  
*Courses:* Covariance structure analysis, advanced structural equation modeling
- 2015 – 2017 **Professor of Educational Measurement**, Centre for Educational Measurement, University of Oslo, Norway  
*Courses:* Educational measurement; Introduction to international large-scale assessment
- 2010 - 2015 **Assistant Professor of Inquiry Methodology**, Counseling and Educational Psychology, Indiana University, Bloomington, IN  
*Courses:* Multilevel modeling; covariance structure analysis; longitudinal data analysis; multivariate statistics; categorical data analysis
- 2011 **Visiting Faculty**, Hamburg University, Hamburg, Germany  
*Course:* Longitudinal data analysis
- 2003 – 2007 **Teaching Assistant**, Educational Psychology University of Illinois, Champaign, IL

*Courses:* Statistical Inference in Education; Assessing Student Performance; Educational Statistics

## **PUBLICATIONS**

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(R = Research; T = Teaching; S = Service; † = work with students; \* = Refereed work)

### **Journal Articles**

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- R Rutkowski, D., **Rutkowski, L.**, & Liaw, Y. (accepted). Tailoring achievement tests to heterogeneous populations: Are latent trait estimates improved? *Educational Measurement: Issues and Practice*.
- R Liaw, Y., Wu, Y., Rutkowski, D., & **Rutkowski, L.** (accepted). Evaluating PISA scales across Chinese economies. *Asia Pacific Journal of Education*.
- R Rutkowski, D., **Rutkowski, L.**, Wild, J., & Burroughs, N. (2018). Poverty and educational achievement in the U.S.: A less biased estimate using PISA 2012 data. *Journal of Children and Poverty*, 24(1), 47-67.
- R \***Rutkowski, L.** & Rutkowski, D. (2018). Improving the comparability of international assessments: A look back and a way forward. *Scandinavian Journal of Educational Research*, 62(3), 354-367. <http://dx.doi.org/10.1080/00313831.2016.1261044>.
- R Svetina, D. & **Rutkowski, L.** (2017). Multidimensional measurement invariance in an international context: Fit measure performance with many groups. *Journal of Cross-Cultural Psychology*, 48(7), 991-1008.
- R **Rutkowski, L.** (2017). Design considerations for planned missing auxiliary data in a latent regression context. *Psychological Test and Assessment Modeling*, 59(1), 55-70.
- R \***Rutkowski, L.** & Svetina, D. (2017). Measurement invariance in international surveys: Categorical indicators and fit measure performance. *Applied Measurement in Education*, 30(1), 39-51. doi: 10.1080/08957347.2016.1243540.
- R \***Rutkowski, L.** & Rutkowski, D. (2016). A call for a more measured approach to interpreting and using PISA results. *Educational Researcher*, 45(4), 252-257.
- R \***Rutkowski, L.** (Ed). (2016). Special issue on quasi-causal methods. *Large-Scale Assessments in Education*, 4.
- R \***Rutkowski, L.** (Ed). (2016). Introduction to special issue on quasi-causal methods. *Large-Scale Assessments in Education*, 4, 1-6.
- R †\***Rutkowski, L.**, & Rutkowski, D., & Zhou, Y. (2016). Parameter estimation methods and the stability of achievement estimates and system rankings: Another look at the PISA model. *International Journal of Testing*, 16(1), 1-20. doi: 10.1080/15305058.2015.1036163
- R †\***Rutkowski, L.** & Zhou, Y. (2015). Errors in variables models for population estimation: Including measurement error in the conditioning model. *Journal of Educational Measurement*, 52(4), 359-375.
- R †\***Rutkowski, L.** & Zhou, Y. (2015). The impact of missing and error-prone auxiliary information on sparse-matrix sub-population parameter estimates. *Methodology*, 11(3), 89-99.

- R Rutkowski, D., **Rutkowski, L.**, & Plucker, J. (Dec. 2014/Jan. 2015). Should individual schools participate in PISA? Some cautions and recommendations for interested participants. *Phi Delta Kappan*, 96(4), 68-73.
- R \*Svetina, D., & **Rutkowski, L.** (2014). Detecting differential item functioning using generalized logistic regression in the context of large-scale assessments. *Large-Scale Assessments in Education*, 2(4), 1-17.
- R \*Rutkowski, D., **Rutkowski, L.** & Engel, L. (2014). Inclusive schooling: Fostering citizenship among immigrant students in Europe. *Intercultural Education*, 25(4), 269-282. doi: 10.1080/14675986.2014.926144
- R \*Wong, Y. J., Brownson, C., **Rutkowski, L.**, Nguyen, C. P., & Becker, M. (2014). A mediation model of professional psychological help seeking for suicide ideation among Asian American and White American college students. *Archives of Suicide Research*, 18(3), 259-273. doi: 10.1080/13811118.2013.824831.
- R \*Engel, L., Rutkowski, D., & **Rutkowski, L.** (2014). Global mobility and rising inequality: A cross-national study of immigration, poverty, and social cohesion. *Peabody Journal of Education*. 89(1), 123-140.
- R \***Rutkowski, L.** (2014). Sensitivity of achievement estimation to conditioning model misclassification. *Applied Measurement in Education*, 27(2), 115-132. (<http://www.tandfonline.com/eprint/tZ8m2cdPR6nrEP8qm2PV/full>)
- R \***Rutkowski, L.** & Svetina, D. (2014). Assessing the hypothesis of measurement invariance in the context of large-scale assessments. *Educational and Psychological Measurement*. 74(1), 31-57.
- R \*Rutkowski, D., & **Rutkowski, L.** (2013). Measuring socioeconomic background in PISA: One size might not fit all. *Research in Comparative and International Education*. 8(3), 259-278.
- R \***Rutkowski, L.**, Rutkowski, D., & Engel, L. (2013). Sharp contrasts at the boundaries: School violence and educational outcomes internationally. *Comparative Education Review*, 57(2), 232-259.
- R \*Rutkowski, D., **Rutkowski, L.**, & Plucker, J. (2012). International trends in excellence gaps: A growth modeling perspective. *High Ability Studies*, 23(2), 143-166.
- R \***Rutkowski, L.**, Rutkowski, D., & Plucker, J. (2012). International determinants of private school attendance. *Educational Research and Evaluation*, 18(4), 375-391.
- R \*Steinfeldt, J., **Rutkowski, L.**, & Orr, T. (2012). Moral atmosphere and masculine norms in American college football. *The Sport Psychologist*, 36, 341-358.
- R \*Rutkowski, D., **Rutkowski, L.** & Langfeldt, G. (2012). Reading economics, thinking education: The relevance – and irrelevance – of economic theory for curriculum research. *Journal of Curriculum Studies*, 44(2), 165-192.
- R \***Rutkowski, L.** (2011). The impact of missing background data on subpopulation estimation. *Journal of Educational Measurement*, 48(3), 293-312.
- R \*Steinfeldt, J., **Rutkowski, L.**, Vaughn, E., & Steinfeldt, M. (2011). Masculinity, moral atmosphere, and moral functioning of high school football players. *Journal of Sport and Exercise Psychology*, 33(2), 215-234.

- R \*Rutkowski, D., **Rutkowski, L.**, & Sparks, J. (2011). Information and Communication Technologies Support for 21st Century Teaching: An International Analysis. *Journal of School Leadership, 21*(2), 190-215.
- R/T \*Gonzalez, E., & **Rutkowski, L.** (2010). Principles of multiple matrix booklet designs and parameter recovery in large-scale assessments. *IEA-ETS Research Institute Monograph, 3*, 125-156.
- R \***Rutkowski, L.**, & Rutkowski, D. (2010). Getting it ‘better’: The importance of improving background questionnaires in international assessment. *Journal of Curriculum Studies, 42*(3), 411-430.
- R/T \***Rutkowski, L.**, Gonzalez, E., Joncas, M., & von Davier, M. (2010). International large-scale assessment data: Recommendations for secondary analysis and reporting. *Educational Researcher, 39*(2), 142-151.
- R \***Rutkowski, L.**, Vasterling, J.J. & Proctor, S.P., Anderson, C. J. (2010). Posttraumatic stress disorder and standardized test-taking ability. *Journal of Educational Psychology, 102*(1), 223-233.
- R \*Engel, L., Rutkowski, D. & **Rutkowski, L.** (2009). The harsher side of globalization: Violent conflict and academic achievement. *Globalisation, Societies and Education, 7*(4). 433-456.
- R \*Barth, J., **Rutkowski, L.**, Neuschmidt, O., & Gonzalez, E. (2009). Curriculum coverage and scale correlation on TIMSS 2003. *IEA-ETS Research Institute Monograph, 2*, 85-112.
- R \***Rutkowski, L.**, & Rutkowski, D. (2009). Trends in TIMSS responses over time: Evidence of global forces in education? *Educational Research and Evaluation, 15*(2), 137-152.

### **Books and Book Chapters**

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- R **Rutkowski, L.** & Rutkowski, L. (accepted). *Methodological challenges to measuring heterogeneous populations internationally*. The Sage Handbook on Comparative Studies.
- R **Rutkowski, L.** & Rutkowski, D. (2016). The relation between students’ perception of instructional quality and bullying victimization. In . In T. Nilsen and J.E. Gustafsson (Eds.), *Teacher quality, instructional quality and student outcomes* (p. 115-134). Amsterdam: IEA.
- R \***Rutkowski, L.**, von Davier, M., & Rutkowski, D. (Eds.). (2014). *Handbook of international large-scale assessment: Background, technical issues, and methods of data analysis*. London: Chapman & Hall/CRC Press.
- R †**Rutkowski, L.**, von Davier, M. Gonzalez, E., & Zhou, Y. (2014). *Assessment design for international large-scale assessment*. In L. Rutkowski, M. von Davier, & D. Rutkowski (Eds.), *Handbook of international large-scale assessment: Background, technical issues, and methods of data analysis*. London: Chapman & Hall/CRC Press.
- T †**Rutkowski, L.** & Zhou, Y. (2014). *Structural models for international large-scale assessment data*. In L. Rutkowski, M. von Davier, & D. Rutkowski (Eds.), *Handbook of international large-scale assessment: Background, technical issues, and methods of data analysis*. London: Chapman & Hall/CRC Press.
- R Neuschmidt, O., Barth, J., **Rutkowski, L.**, & Rutkowski, D. (2010). Effective schools in the Arab region: A Multi-level approach using TIMSS 2003 data. In D. Sharpes (Ed.). *Handbook on International Studies in Education*. Charlotte, NC: Information Age Publishing.

- T Anderson, C.J., & **Rutkowski, L.** (2008). Logistic regression models for multcategory variables. In J. Osborne (ed.) *Best Practices in Quantitative Methods*. Thousand Oaks, CA: Sage.

### **Reports and Other Published Work**

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- R \*Oliveri, M. E., Rutkowski, D., & **Rutkowski, L.** (2018). Bridging validity and evaluation to match international large-scale assessment claims to country aims. *ETS Research Report, RR-18-27*. Princeton, NJ: Educational Testing Service. Retrieved from <https://onlinelibrary.wiley.com/doi/epdf/10.1002/ets2.12214>.
- S **Rutkowski, D.** & Rutkowski, L. (2018). No one likes a bully: How systematic is international bullying and what relationship does it have with mathematics achievement in 4<sup>th</sup> grade? *IEA Compass: Briefs in Education, 1*.
- R \***Rutkowski, L.** (2016). *A look at the most pressing methodological issues in international assessment*. Paper commissioned by the U.S. National Academy of Education. [https://naeducation.org/wp-content/uploads/2016/12/Pressing-Methodological-Issues-in-International-Assessment-Rutkowski-2016\\_web-version.pdf](https://naeducation.org/wp-content/uploads/2016/12/Pressing-Methodological-Issues-in-International-Assessment-Rutkowski-2016_web-version.pdf)
- S **Rutkowski, L.,** & Rutkowski, D. (2016). *International surveys, educational*. In G. Ritzer (Ed.), *The Wiley-Blackwell Encyclopedia of Globalization*. Hoboken, NJ: Blackwell.
- S Rutkowski, D., & **Rutkowski, L.** (2016). *What teachers can't and can learn from international assessments*. Centre for Educational Measurement at the University of Oslo Working Paper.
- S Carney, C., Rutkowski, D., & Rutkowski, L. (2015). *Indiana educational policy context: The case of the Rules for Educator Preparation and Accountability (REPA)*. Paper commissioned by Indiana University School of Education Policy Council and Long Range Planning Committee.
- S Rutkowski, D., **Rutkowski, L.** & Plucker, J. (2014). What matters is what's measured— not who measures it. PDK Blog: Learning on the edge. <http://pdkintl.org/blogs/learning-on-the-edge/matters-whats-measured-measures/>
- S Plucker, J., **Rutkowski, L.,** & Rutkowski, D. (2014, December 2). Should local districts participate in international assessments? *Education Week*. Retrieved from [http://blogs.edweek.org/edweek/rick\\_hess\\_straight\\_up/2014/12/should\\_local\\_districts\\_participate\\_in\\_international\\_assessments.html](http://blogs.edweek.org/edweek/rick_hess_straight_up/2014/12/should_local_districts_participate_in_international_assessments.html)
- S **Rutkowski, L.,** & Rutkowski, D. (2014, March 20). So how overblown were No. 1 Shanghai's PISA results? *Washington Post*. Retrieved from <http://www.washingtonpost.com/blogs/answer-sheet/wp/2014/03/20/so-how-overblown-were-no-1-shanghais-pisa-results/>
- R/S †\*OECD. (2013). *The TALIS 2013 conceptual framework*. Document commissioned by the Organisation for Economic Cooperation and Development. Paris: OECD.
- S Rutkowski, D., & **Rutkowski, L.** (2013, October 2). Schools good, schools bad: Reducing the American education debate to absurdity. *Education Week*, pp. 28, 32.
- S †Rutkowski, D., Wild, J., & **Rutkowski, L.** (2013). Indiana's TIMSS 2011 performance: Outperforming much of the world in math and science, but issues remain for gender achievement and high performers. *CEEP Education Policy Brief, 11(1)*, 1-8.
- R **Rutkowski, L.,** & Svetina, D. (2013). *Evaluation of distributional assumptions and hypotheses of measurement invariance in the 2013 Teaching and Learning International Survey*. Paper commissioned by the Organisation for Economic Co-operation and Development.

- R/S †\*OECD. (2012). *Analysis of TALIS 2013 field trial data – summary report*. Document commissioned by the Organisation for Economic Cooperation and Development. Paris: OECD.
- R †**Rutkowski, L.**, Rutkowski, D., Plucker, J., & Prusinski, E. (2011). *Differential impacts of dual and advanced placement credits on higher education outcomes*. Report commissioned by the Office of the Vice President for University Regional Affairs, Planning, and Policy, Indiana University Bloomington.
- R/S OECD. (2009). Chapter five: School evaluation, teacher appraisal and feedback and its impact upon schools and teachers. *Creating Effective Teaching and Learning Environments: First Results from TALIS*. Paris: OECD.
- T **Rutkowski, L.** (2009). *Analyzing the TALIS 2008 data using WesVar*. TALIS User Guide for the International Database. Paris: OECD.
- S \***Rutkowski, L.** (2007). Review of Clustering for data mining: A data recovery approach by Boris Mirkin. *Psychometrika*, 72(1), 109-110.

### **Publications Under Review**

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- R **Rutkowski, L.** & Matta, T. (under review). *One approach for designing and treating missing data in latent regression covariates*. Manuscript submitted to *Psychometrika*.
- R Ip, E., Fu, Y., Strachan, T., Chen, S., **Rutkowski, L.**, et al. (under review). *Bias and bias correction method for non-proportional abilities requirement (NPAR) tests*. Manuscript submitted to *Journal of Educational Measurement*.
- R **Rutkowski, L.**, & Svetina, D. (under review). *The impact of collapsing categories on invariance investigations*. Manuscript submitted to *Structural Equation Modeling*.
- R Matta, T., **Rutkowski, L.**, Rutkowski, D., & Liaw, Y. (under review). *Isasim: An R package for simulating large-scale assessment data*. Manuscript submitted to *Large-Scale Assessment in Education*.
- R **Rutkowski, L.**, Rutkowski, D., & Liaw, Y. (under review). *Existence and impact of floor effects in international assessments*. Manuscript submitted to AERA Open.

### **Publications in Progress**

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- T **Rutkowski, L.** & Rutkowski, D., with Gonzalez, E. (under contract). *International- large scale assessments: Methods and applications for educational and social researchers*. Guilford Press.
- R Svetina, D., **Rutkowski, L.**, & Rutkowski, D. (in preparation). *Multiple-groups analysis in international assessment: Recommendations and state-of-the-art*.
- R Svetina, D., Liaw, Y., **Rutkowski, L.**, Rutkowski, D. (in preparation). *Person and item parameter recovery under a multistage test design*.

### **PRESENTATIONS**

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(R = Research; T = Teaching; S = Service; † = work with students)

- R Rutkowski, L. (2018, July). *Increased heterogeneity in international assessments and associated measurement challenges*. Invited keynote talk at 2018 International Test Commission annual meeting: Montreal, Quebec.
- R Rutkowski, L., Rutkowski, D., & Liaw, Y.L., (2018, April). *Tailored booklets: Improved estimates of latent traits in large-scale assessment?* 2018 National Council on Measurement in Education Meeting: New York, NY.
- R **Rutkowski, L.** von Davier, M., & Rutkowski, D. (2018). *Advances in measurement and research methodology of large-scale assessments (AERA Division D Awardee Presentation)*. 2018 American Educational Research Association Meeting: New York, NY.
- R Rutkowski, L. (2018, April). *Comments on International Education Assessments: Cautions, Conundrums, and Common Sense*. 2018 National Academy of Education Methods and Policy Uses of International Large-Scale Assessments Meeting: Washington, DC.
- R **Rutkowski, L.**, Kaplan, D., & Matta, T. (2017, June). *Imputation as a means to create a synthetic pre/post design*. 2017 IEA Research Conference: Prague, Czechia.
- R **Rutkowski, L.**, Svetina, D., & Liaw, Y.L. (2017, June). *The impact of collapsing choices in categorical MG-CFA: A look at model fit and reliability*. 2017 IEA Research Conference: Prague, Czechia.
- R Rutkowski, L. (2017, March). *Methodological challenges to measuring heterogeneous populations internationally*. 2017 Comparative and International Education Society Conference: Atlanta, Georgia.
- S Rutkowski, D. & **Rutkowski, L.** (2016, June). *What teachers can't and can learn from international assessments*. 2016 Nordic NLS Teacher Union Conference: Loen, Norway.
- S **Rutkowski, L.** (2016, June). *A look at the most pressing design issues in international assessment*. National Academy of Education Workshop Series on International Large-Scale Assessment: Washington, DC.
- R **Rutkowski, L.** (2016, April). *Design considerations for planned missing auxiliary data in a latent regression context*. National Council on Measurement in Education 2016 Annual Meeting: Washington, DC.
- R Svetina, D. & **Rutkowski, L.** (2016, April). *Measurement invariance in international large-scale assessments: Ordered-categorical outcomes in a multidimensional context*. National Council on Measurement in Education 2016 Annual Meeting: Washington, DC.
- R Rutkowski, D., **Rutkowski, L.**, & Wild, J. (2016, April). *The impact of poverty on US PISA achievement: A propensity score matching approach*. American Educational Research Association 2016: Washington, DC.
- R **Rutkowski, L.** & Svetina, D. (2015, April). *Examining fit criteria in categorical measurement models with a large number of groups*. National Council on Measurement in Education 2015 Annual Meeting: Chicago, IL.
- R **Rutkowski, L.**, Rutkowski, D., & Zhou, Y. (2015, April). *Parameter estimation methods and the stability of achievement estimates and system rankings: Another look at the PISA model*. National Council on Measurement in Education 2015 Annual Meeting: Chicago, IL.
- R Rutkowski, D & **Rutkowski, L.** (2015, March). *The OECD's leaning tower: A call for a more measured approach to using and interpreting PISA results*. Comparative and International Education Society Conference. Washington D.C.

- R **Rutkowski, L.** & Rutkowski, D. (2014, June). *The OECD's leaning tower of PISA: Approach with caution, use with care*. Invited expert presentation at the European Commission's Joint Research Center, Ispra, Italy.
- R **Rutkowski, L.** (2014, May). *Improving measurement and comparisons: Unique items and item parameters*. Invited expert presentation at the 2014 Center for Assessment's Colloquium on International Benchmarking: Rationale, Procedures and Validation, Boulder, CO.
- R **Rutkowski, L.** (2013, December). *Improving measurement and comparisons: Unique items and item parameters*. Invited expert presentation at the 2013 Lessons Learned for Understanding Civic and Citizenship Education Conference, University of Roma Tre, Rome, Italy.
- R †Rutkowski, D., **Rutkowski, L.**, & Wild, J. (2013, June). *Predictors of school violence in immigrant populations internationally*. Paper presented at 2013 IEA International Research Conference, Singapore.
- R †**Rutkowski, L.** & Zhou, Y. (2013, April). *The impact of missing and error-prone auxiliary information on sparse-matrix subpopulation parameter estimates*. In G. Wimberly (Chair), *Excellence in Education Research: Early Career Scholars and Their Work Invited Symposium*. Symposium conducted at annual meeting of the American Educational Research Association, San Francisco, CA.
- R **Rutkowski, L.** & Svetina, D. (2013, April). *Assessing the hypothesis of measurement invariance in the context of large-scale assessments*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.
- R Engel, L., Rutkowski, D., & **Rutkowski, L.** (2013, April). *Poverty, education, and social cohesion: An international perspective*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- R **Rutkowski, L.**, Rutkowski, D., & Engel, L. (2012, April). *Finding local usefulness in international large-scale assessments*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, CA.
- R Engel, L., Rutkowski, D., & **Rutkowski, L.** (2012, April). *Unraveled national borders: Assessing social cohesion among students in Europe*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, CA.
- R **Rutkowski, L.** (2011, September). *Sensitivity of subpopulation achievement estimates to conditioning model misspecification*. Paper presented at the annual European Conference on Educational Research, Berlin, Germany.
- R Rutkowski, D., **Rutkowski, L.**, & Plucker, J. (2011, September). *Trends in excellence gaps: A 12-year international perspective via the multilevel model for change*. Paper presented at the annual European Conference on Educational Research, Berlin, Germany.
- R **Rutkowski, L.**, Rutkowski, D., & Engel, L. (2011, April). *Sharp contrasts at the boundaries: violence and educational outcomes internationally*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- R **Rutkowski, L.**, Rutkowski, D., & Plucker, J. (2011, April). *Trends in excellence gaps: A 12 year, international perspective*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- R **Rutkowski, L.** (2011, April). *The impact of missing background data on subpopulation estimation*. In B. Clauser (Chair), *Journal of Educational Measurement Invited Symposium*. Symposium



conducted at the annual meeting of the National Council on Measurement in Education, New Orleans, LA.

- S **Rutkowski, L.** (2011, February). *Starting a career in large-scale assessment: Experiences of a junior researcher*. Invited presentation at the QUERIES Brownbag Seminar, University of Illinois, Urbana-Champaign.
- R **Rutkowski, L.** (2010). *The impact of missing data on subgroup estimation in large-scale assessment*. Paper presented at the 2010 IEA International Research Conference. Gothenburg, Sweden.
- R **Rutkowski, L.** & Rutkowski, D. (2010). *Getting it 'better': The importance of improving background questionnaires in international assessment*. Paper presented at the 2010 American Educational Research Association annual meeting. Denver, CO.
- R Engel, L., Rutkowski, D. & **Rutkowski, L.** (2010). *The harsher side of globalization: Violent conflict and academic achievement*. Paper presented at the 2010 annual American Educational Research Association annual meeting. Denver, CO.
- R **Rutkowski, L.**, & Rutkowski, D. (2010). *Determinants of private school choice: evidence of cream skimming internationally*. Paper presented at the 2010 annual American Educational Research Association annual meeting. Denver, CO.
- T Gonzalez, E., & **Rutkowski, L.** (2009). *Practical approaches for choosing multiple-matrix sample designs*. Paper presented at the 2009 European Educational Research Association Annual Meeting. Vienna, Austria.
- R Engel, L., Rutkowski, D., & **Rutkowski, L.** (2009). *The harsher side of globalization*. Paper presented at the 2009 European Educational Research Association Annual Meeting. Vienna, Austria.
- T **Rutkowski, L.**, & Rutkowski, D. (2009). *Violence and achievement: A multilevel example with TIMSS 2007*. Paper presented at the 2009 IEA-ETS Research Institute Spring Academy. Hamburg, Germany.
- R **Rutkowski, L.**, & Rutkowski, D. (2009). *Private and public education: A cross-national exploration with TIMSS 2003*. Paper presented at the 2009 annual American Educational Research Association annual meeting. San Diego, CA.
- R Rutkowski, D., & **Rutkowski, L.**, & Sparks, J.L. (2009). *ICT, education, and the knowledge economy: Goals, support, and practice*. Paper presented at the 2009 annual American Educational Research Association annual meeting. San Diego, CA.
- R Neuschmidt, O., Hencke, J., **Rutkowski, L.**, & Rutkowski, D. (2009). *Effective Schools in Arab Educational Systems: An Analysis of TIMSS 2003*. Paper presented at the 2009 annual American Educational Research Association annual meeting. San Diego, CA.
- T **Rutkowski, L.** (2009). *Propensity score matching with SAS: An example with TIMSS 2003 data*. Invited presentation at University of Hamburg, Doctoral Seminar.
- R Rutkowski, D., & **Rutkowski, L.** (2008). *Private and public education using TIMSS data*. Paper presented at the 3<sup>rd</sup> IEA International Research Conference. Taipei, Taiwan.
- R **Rutkowski, L.**, & Rutkowski, D. (2008). *An empirical look at globalization in education*. Paper presented at the 3<sup>rd</sup> IEA International Research Conference. Taipei, Taiwan.

- R Sparks, J.L., **Rutkowski, L.**, & Rutkowski, D. (2008). *ICT, education and the knowledge economy: Goals, support and practice*. Paper presented at the 3<sup>rd</sup> IEA International Research Conference. Taipei, Taiwan.
- R **Rutkowski, L.**, & Rutkowski, D. (2008). *Private and public education: A cross national exploration*. Paper presented at the 2008 IEA-ETS Research Institute Spring Academy. Hamburg, Germany.
- R Barth, J., **Rutkowski, L.**, Neuschmidt, O., & Gonzalez, E. (2008). *Curriculum coverage and scale correlation on TIMSS 2003*. Paper presented at the 2008 annual National Council on Measurement in Education annual meeting. New York, NY.
- R **Rutkowski, L.**, Vasterling, J.V., & Proctor, S.P. (2007). *PTSD and standardized test performance: An example of IRT with covariates*. Paper presented at the 2007 annual American Educational Research Association annual meeting. Chicago, IL.
- R **Rutkowski, L.**, & Rutkowski, D. (2007). *Gender and cultural unity and diversity in PISA 2003 mathematics items*. Poster presented at the 2007 annual American Educational Research Association annual meeting. Chicago, IL.
- R **Rutkowski, L.** (2006). *Comparison of one heuristic and one globally optimal unidimensional scaling technique*. Paper presented at the annual Classification Society of North America meeting. DIMACS Center, Rutgers University, Piscataway, N.J.
- T **Rutkowski, L.**, Proctor, S.P., & Vasterling, J.V. (2006). *Explanatory item response theory in trauma research*. Paper presented for the annual Conference on Innovations in Trauma Research Methods meeting. Hollywood, CA.

#### **INSTRUCTED SEMINARS**

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- Jun 2017 **Workshop on Multilevel Modeling with IEA Data**, IEA Research Conference, Prague, Czechia
- Mar 2017 **Seminar in Introductory Statistical Analysis**, OECD-commissioned workshop
- Sep 2016 **Seminar in Cross-Cultural Invariance Methods**, OECD-commissioned webinar
- Apr 2015 **Hierarchical Linear Modeling with Large-Scale International Databases**, AERA Professional Development Course, Annual Meeting, Chicago, IL
- Feb 2015 **A Brief Introduction to Multilevel Modeling: Concepts & Applications**, Workshop in Methods Series, Indiana University, Bloomington, IN
- Dec 2014 **Seminar in Multiple-Groups Models**, Szkoła Wyższa Psychologii Społecznej (School of Social Sciences), Warsaw, Poland
- Oct 2014 **Workshop on Large-Scale Assessment Data Analysis**, Midwestern CIES Regional Conference, Bloomington, IN
- Sep 2014 **Seminar in Large-Scale Assessment Data Analysis**, Hamburg University, Germany
- Jun 2014 **Seminar in Structural Equation Modeling for TIMSS 2011 Data**, Charles University, Prague, Czech Republic
- Jun 2013 **Using HLM with International Large-Scale Assessment Data**, IEA Research Conference, Singapore

- Aug 2011 **Seminar in Structural Equation Modeling for PISA Data**, St. Patrick's College, Dublin, Ireland
- May-Jun 2011 **Lecture Series in Longitudinal Data Analysis**, Hamburg University, Germany
- May/Jul 2011 **Summer Seminar: Multilevel modeling of noesis data**, University of Vienna, Austria
- Jul 2010 **Using HLM with Large Scale Assessment Data**, University of Gothenburg, Sweden
- Jun 2010 **Summer Seminar in Large Scale Assessment**, University of Vienna, Austria
- Sep 2009 **Large-Scale Assessment Data: Analysis and Technical Complexities**, National Federation for Educational Research (NFER), Slough, England
- Aug 2009 **Introduction to Item Response Theory, II**, Pretoria, South Africa
- Jul 2009 **Introduction to Item Response Theory**, Pretoria, South Africa
- Apr 2009 **Using the SITES 2006 Database and Using the TIMSS 2007 Database**, AERA Annual Meeting, San Diego, CA
- Feb 2009 **Validating Indices**, Sharm-el-Sheikh, Egypt
- Dec 2008 **Using PISA Data**, Montreal, Canada
- Oct 2008 **Using Large-Scale Assessment Data**, Berlin, Germany
- Sep 2008 **Categorical Data Analysis in Large Scale Assessment**, Taipei, Taiwan
- Jul 2008 **Data Base Seminar**, Ljubljana, Slovenia
- Jun 2008 **Analyzing Your TIMSS 2007 Data**, Gaborone, Botswana
- May 2008 **Analysis for National Reports**, Manama, Bahrain
- Mar 2008 **Using Large-Scale Assessment Data**, AERA Annual Meeting, New York, New York
- Feb 2008 **PIRLS National Research Coordinator Seminar**, Madrid, Spain
- Jan 2008 **Arabic Seminar**, Cairo, Egypt
- Nov 2007 **Categorical Data Analysis**, IEA-ETS Research Institute Autumn Academy, Hamburg, Germany

## **SUPPORT**

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### **Funded**

- 2016-2020 **Principal Investigator**: Embracing heterogeneity in international surveys: Optimal test design and parameter estimation, Norwegian Research Council, *13,197,000 NOK (\$1,539,000)*.
- 2013 **Principal Investigator**: Developing a method to correct for measurement error in large-scale assessment conditioning models. Indiana University Kempf Trust Award, *\$19,000 + student tuition and fee remission*.
- 2012 **Principal Investigator**: Examining cultural equivalence of TALIS field trial data. OECD Contract. *\$13,867 plus travel expenses*.

- 2012-2013 **Principal Investigator:** Examining the sensitivity of population achievement estimates to missing and noisy data in the conditioning model. AERA Research Grant, \$20,000.
- 2012 **Principal Investigator:** Assessing the impact of measurement error in models for sparse matrices. Indiana University Proffitt Grant, \$19,000 + student tuition and fee remission.
- 2010-2011 **Co-Principal Investigator:** International Association for the Evaluation of Educational Achievement, Development of the Teaching and Learning International Survey 2013: \$34,386 plus travel expenses.
- 2008 **Co-Principal Investigator:** Arab Bureau of Education, Gulf States, Training Grant, €30,000 / \$45,000

### **Unfunded**

- 2014 **Principal Investigator:** Embracing heterogeneity in national and international surveys: optimal design and estimation through unique items and item parameters. National Science Foundation, \$110,816
- 2010 **Principal Investigator:** Using national assessment of educational progress data in education and the social sciences: Basic and advanced methods of analysis. U.S. Dept. of Education, \$291,124

### **PROFESSIONAL AWARDS & ACADEMIC HONORS**

- 2017 University of Illinois at Urbana-Champaign School of Education Distinguished Alumni Award.
- 2017 AERA Division D Significant Contributions to Educational Measurement and Research Methodology (\$1000) for **Rutkowski, L.**, von Davier, M, & Rutkowski, D. (Eds.). (2014). *Handbook of international large-scale assessment: Background, technical issues, and methods of data analysis*. London: Chapman & Hall/CRC Press.
- 2016 American Psychological Association Division 5 *Anne Anastasi Early Career Award* for outstanding contributions to assessment, evaluation, measurement, quantitative or qualitative research methods and/or statistics, and promise of outstanding work. (\$500).
- 2014 School Effectiveness and School Improvement SIG Most Highly Scored Session at AERA 2014 (\$300): "Using the World as an Educational Laboratory": Merging Educational Effectiveness Research and International Comparative Studies.
- 2013 Mensa Award for Excellence in Research (\$500) for: Rutkowski, D., **Rutkowski, L.**, & Plucker, J. (2012). International trends in excellence gaps: A growth modeling perspective. *High Ability Studies*, 23(2), 143-166.
- 2013 Overseas Conference Grant, Indiana University Office of the Vice President of International Affairs: (\$1,200).
- 2011 Short-term faculty exchange award, Indiana University Office of the Vice President of International Affairs and Hamburg University: (\$3,200).
- 2010 Overseas Conference Grant, Indiana University Office of the Vice President of International Affairs: (\$750)
- 2006 Departmental commendation of *Excellent Doctoral Work* for general qualifying exam
- 2006 Mplus travel scholarship: (\$500)
- 2005 National Center for Educational Statistics travel award for international assessment workshop: (\$1200)
- 2003 University of New Mexico *Summa cum Laude* Graduate

### **PROFESSIONAL MEMBERSHIPS**

- Since 2011 American Psychological Association (APA), Division 5

2004 – 2015	American Education Research Association (AERA)
2005 – 2009	Classification Society of North American (CSNA)
Since 2007	National Council on Measurement in Education (NCME)

## **SERVICE**

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### **International**

2017 – present	Editor, <i>IEA Thematic Report Series</i>
2017 – present	Associate Editor, <i>Large-Scale Assessments in Education</i> journal (Springer)
2017 – present	Member, PISA for Development Technical Advisory Group
2016 – present	Member, PISA Technical Advisory Group
2013 – present	Member, <i>Large-Scale Assessments in Education</i> journal editorial board
2012	Chair, OECD Teaching and Learning International Survey (TALIS) Analysis Expert Group
2008 – 2013	Chair/Discussant, IEA Research Conference
2007 – 2015	Member, IEA Research Conference Scientific Committee

### **National (US)**

2013 – present	Member, US National Assessment of Educational Progress Questionnaire Standing Committee
2013 – 2014	†Advisor, Human Anatomy and Physiology Society Comprehensive Examination Validation Project
2012 – present	Member, NCME Brenda Lloyd Dissertation Award Committee
2008 – 2014	Chair/Discussant, American Educational Research Association Annual Meeting
2008 – 2011	Reviewer, National Council on Measurement in Education Annual Meeting
2007 – 2010	Reviewer, American Educational Research Association Annual Meeting

### **Local/University**

2017	Chair, Post-Doctoral Researcher Hiring Committee, CEMO, University of Oslo
2015 – 2017	Coordinator, Post-Doctoral Mentoring Program, CEMO, University of Oslo
2014 – 2015	Member, School of Education Self-Study Task Force, Indiana University Bloomington
2014 – 2015	Member, Faculty Council, Indiana University, Bloomington
2013 – 2015	Member, Workshop in Methods Advisory Board, Indiana University, Bloomington
2013 – 2015	Member, Graduate Statistics Committee, Indiana University, Bloomington
2011 – 2015	Member, Minor in Social Sciences Research Methods Advisory Committee, Indiana University
2011 – 2014	Member, International Programs Committee, School of Education, Indiana University, Bloomington
2013	Member, CEEP Director Search Committee, Indiana University, Bloomington
2011 – 2013	Member, CEEP Advisory Board, Indiana University, Bloomington
2011-2012	Analyst, Faculty Affairs Committee, Equity Review Project, School of Education, Indiana University, Bloomington
2011	Volunteer, Indiana University Veterans Support Services Remembrance Day Ceremony
2011	Member, Value-Added Modeling Initiative Committee, School of Education, Indiana University, Bloomington
2010 – 2012	Reviewer, Frieda Renfro Dissertation Award Committee, School of Education, Indiana University, Bloomington
2010	Member, Inquiry Methodology Search Committee, School of Education, Indiana University, Bloomington
2004 – 2007	Junior Mentor, Educational Psychology University of Illinois, Champaign, IL

## **PROFESSIONAL DEVELOPMENT**

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2016	Norwegian Language Instruction, Oslo, Norway
2015	Multilevel IRT in R, AERA Annual Meeting, Chicago, IL
2015	Equating in R, AERA Annual Meeting, Chicago, IL
2009	Measurement for Large Scale Assessment, ETS, Princeton, NJ.

- 2007 – 2009 German Language Instruction, Hamburg, Germany  
2005 Programme for International Student Assessment (PISA) data and analysis workshop,  
National Center for Educational Statistics, Washington, DC.  
2006 Mplus Workshop, Johns Hopkins School of Public Health, Baltimore, MD.

### **OTHER PROFESSIONAL EXPERIENCE**

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- 1996 – 1999 **Explosive Ordnance Disposal Technician**, United States Air Force, enlisted  
Misawa Air Base, Japan  
1993 – 1996 **Explosive Ordnance Disposal Technician**, United States Air Force, enlisted  
Barksdale Air Force Base, LA

### **RESEARCH INTERESTS**

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Large-scale assessment, cross-cultural measurement, behavioral statistics, educational and psychological measurement, educational and psychological assessment.