

**Curriculum Vitae**  
**MARIOLA MOEYAERT, Phd, MBA**  
**Associate Professor of Statistics**  
**President Statistical Solutions Inc.**  
**mmoeyaert@albany.edu**

**EDUCATION**

- 2014                    **Ph.D.** (Magna cum laude), Quantitative Methods in Educational Sciences, KU Leuven, Belgium.
- Dissertation: Three-Level Synthesis of Single-Subject Experimental Data: Further Developments, Empirical Validation and Applications. Doctoral Mentor, Wim Van den Noortgate, Associate Professor and Dean of Psychology and Educational Sciences.
- 2019                    **MBA** (Magna cum laude), University at Albany, School of Business.
- Thesis: The impact and implications of implementing a Portable SMART (Sustainable Medical Access to Renewable Technologies) health care clinic in sub-saharan Africa. Thesis Mentor, Gerald Shaye, Associate Professor
- 2011                    **M.S.** (Magna cum laude), KU Leuven, Belgium, Department of Educational Sciences, Centrum of Methodology.
- Thesis: The Attitude of Students towards Classroom Response Systems in Higher Education. Thesis Mentor, Geraldine Clarebout, Associate Professor.
- 2009                    **B.A.** (Magna cum laude), Katho RENO, Belgium, Mathematics, Biology and Physics.

**EMPLOYMENT**

- 2020 - Present            **Associate Professor of Statistics**, Educational and Counseling Psychology, University at Albany, School of Education, State University of New York.
- 2015 - 2020            **Assistant Professor of Statistics**, Educational and Counseling Psychology, University at Albany, School of Education, State University of New York.
- 2014 - 2015            **Postdoctoral Research Trainee**, Statistics and Research Design, City University of New York. Postdoctoral Mentor, David Rindskopf, Ph.D.

## AWARDS

Anastasi Dissertation Award Division 5 of the American Psychological Association, 2016.

Early Career Award of the University at Albany, 2021. <https://www.albany.edu/news-center/news/2021-six-junior-faculty-are-recognized-auspicious-beginnings-careers>

## PUBLICATIONS

\* indicates student co-author

\*\* indicates methodological paper

### Refereed Articles<sup>1</sup> (N = 59)

\*\*Joo, S., Ferron, J., **Moeyaert, M.**, Beretvas, S., & Van den Noortgate, W. (2021). Comparison of within- and between-series effect estimates in the meta-analysis of multiple baseline studies. *Journal of Educational and Behavior Statistics*. (IF = 1.375)

**Moeyaert, M.**, & \*Yang, P. (2021). Three-level meta-analysis of single-case research including moderators: Conceptual introduction. *Invited paper for the journal Behaviormetrika*.

\*\* **Moeyaert, M.**, \*Yang, P., & \*Xu, X. (2021). The power to explain variability in intervention effectiveness in single-case research using hierarchical linear modeling. Special Issue *Perspectives on Behavior Science*.

**Moeyaert, M.**, \*Yang, P., \*Xu, X., & \*Kim, E. (2021). Characteristics of moderators in meta-analyses of single-case experimental design studies: A systematic review. *Behavior Modification*. <https://doi.org/10.1177/01454455211002111> (IF = 2.204)

\*\*Jamshidi, L., \*Declercq, L., Fernández-Castilla, B., Ferron, J., **Moeyaert, M.**, Beretvas, S.N., & Van den Noortgate, W. (2021). Bias adjustment in multilevel meta-analysis of standardized single-case experimental data. *Journal of Experimental Education*, 89, 334-361. <https://doi.org/10.1080/00220973.2019.1658568> (IF = 1.867)

Manolov, R., **Moeyaert, M.**, \*Fingerhut, J. (2021) A priori metric justification for the quantitative analysis of single-case experimental data. *Perspectives on Behavior Science*. <https://doi.org/10.1007/s40614-021-00282-2>

\*Fingerhut, J., \*Xinyun, X., & **Moeyaert, M.**, (2021). Selecting the Proper Tau-U measure for single-case experimental designs: Development and application of a decision flowchart.

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<sup>1</sup> One year impact factors (IF) at the year of publication are in parentheses. If the IF at year of publication is not available, then the five year IF is listed.

*Evidence-Based Communication and Intervention.*

<https://doi.org/10.1080/17489539.2021.1937851> (IF = 0.83)

- \*\* \*Fingerhut, J., \*Xinyun, X., & **Moeyaert, M.**, (2021). Impact of within-case variability on Tau-U and regression-based effect size measures for single-case experimental data: A Monte Carlo simulation study. *Evidence-Based Communication and Intervention*. 10.1080/17489539.2021.1933727 (IF = 0.83)
- \*Jamshidi, L., **Moeyaert, M.**, Ferron, J. Beretvas, S. N., & Van den Noortgate, W. (2021). A systematic review of single-case experimental design meta-analyses: Characteristics of study designs, data, and analyses. *Evidence-Based Communication and Intervention*. (IF = 0.83)
- Epstein, L. H., Bickel, W. K., Czajkowski, S., Paluch, R. A., Davidson, K. W., & **Moeyaert, M.** (2020). Single case designs for early phase translational research in health psychology. *Health Psychology*. (IF = 3.056)
- \*\***Moeyaert, M.**, \*Bursali, S., & Ferron, J. (2021). SCD-MVA: A mobile application for conducting single-case experimental design research during the pandemic. Special issue “COVID-19 and Human Behavior with Emerging Technologies”. *Human Behavior and Emerging Technologies*, 3(1), 75-96. doi: 10.1002/hbe2.223
- \*\*Declercq, L., Jamshidi, L., Fernández-Castilla, B., **Moeyaert, M.**, Beretvas, S., Ferron, J., & Van den Noortgate, W. (2020). Multilevel meta-analysis of individual participant data of single-case experimental designs: one-stage versus two-stage methods *Multivariate Behavioral Research*. <https://doi.org/10.1080/00273171.2020.1822148> (IF = 2.750)
- Asaro-Saddler, K., **Moeyaert, M.**, \*Xinyun, X., & \*Zhao, A. (2020). Multilevel meta-analysis of the effectiveness of self-regulated strategy development to increase the number of correct words read and the quality of written words for children with Autism. *Exceptionality*. Doi: 10.1080/09362835.2020.1850457 (IF = 1.364)
- \*\*Jamshidi, L., \*Declercq, L., Fernández-Castilla, B., Ferron, J., **Moeyaert, M.**, Beretvas, S.N., & Van den Noortgate, W. (2020). Multilevel meta-analysis of multiple regression coefficients from single-case experimental studies. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-020-01380-w> (IF = 4.063)  
ERIC ID: 3d6fef60f464e01b9aec340750ac780  
IES funding acknowledged
- Moeyaert, M.**, \*Akhmedjanova, D., Ferron, J., Beretvas, S., & Van Den Noortgate, W. (2020). Effect size estimation for combined single-case experimental designs. *Evidence-based Communication Assessment and Intervention*. 10.1080/17489539.2020.1747146 (IF = 0.83)

ERIC ID:97444367fd43455ca7f705eabb59468d

IES funding acknowledged

\*\*Miočević, M., Klaassen, F., Geuke, G., **Moeyaert, M.**, & Maric, M. (2020). Using Bayesian methods to test mediators of intervention outcomes in single case experimental designs. *Evidence-based Communication Assessment and Intervention*, 14(1-2), 52-68.

<https://doi.org/10.1080/17489539.2020.1732029> (IF = 0.83)

ERIC ID: 965689ccf37b46f984885de87c7e1a8d

IES funding acknowledged

Puccioni, J., Froiland, J. M., **Moeyaert, M.** (2020). Preschool teachers' transition practices and parents' perceptions as predictors of involvement and children's school readiness. *Children and Youth Services Review*. (IF = 1.684)

**Moeyaert, M.**, Manolov, R., & \*Rodabaugh, E. (2020). Meta-analysis of single-case research via multilevel models: Fundamental concepts and methodological considerations. *Behavior Modification*, 44(2), 265-295. <https://doi.org/10.1177/0145445518806867> (IF = 1.455)

\*\*Declercq, L., Jamshidi, L., Fernández-Castilla, B., Beretvas, S., **Moeyaert, M.**, Ferron, J., & Van den Noortgate, W. (2019). Analysis of single-case experimental count data using the linear mixed effects model: A simulation study. *Behavior Research Methods*, 51(6), 2477-2497. <https://doi.org/10.3758/s13428-018-1091-y> (IF = 3.623)

Declercq, L., Cools, W., Beretvas, S. N., **Moeyaert, M.**, Ferron, J. M., & Van den Noortgate, W. (2020). MultiSCED: A tool for (meta-)analyzing single-case experimental data. *Behavior Research Methods*, 52, 177-192. [doi.org/10.3758/s13428-019-01216-2](https://doi.org/10.3758/s13428-019-01216-2) (IF = 3.623)

Babik, I., Cunha, A., **Moeyaert, M.**, Hall, M., & Lobo, M. (2019). Feasibility and effectiveness of intervention with the Playskin Lift™ exoskeletal garment for infants at risk. *Journal of Physical Therapy*, 99(6), 666-676. (IF = 2.764)

Grünke, M., Saddler, B., Asaro-Saddler, K., & **Moeyaert, M.** (2019). The effects of a peer-tutoring intervention on the text productivity and completeness of narratives written by eighth graders with learning disabilities. *International Journal for Research in Learning Disabilities*, 4(1), 1-35. <https://doi.org/10.28987/ijrld.4.1>

Harpøth, T. S. D., Kongerslev, M. T., **Moeyaert, M.**, Bo, S., Bateman, A. W., & Simonsen, E. (2019). Evaluating “mentalizing positive affect” as an intervention for enhancing positive affectivity in borderline personality disorder using a single-case multiple-baseline design. *Psychotherapy*. <https://doi.org/10.1037/pst0000251> (IF = 2.573)

- Saddler, B., Asaro-Saddler, K., **Moeyaert, M.**, & Slichko, J. (2019). Teaching summary writing to students with learning disabilities via strategy instruction. *Reading & Writing Quarterly*, 35, 572-586. doi.org/10.1080/10573569.2019.1600085 (IF = 1.333)
- Moeyaert, M.**, Klingbeil, D., \*Rodabaugh, E. & \*Turan, M. (2021). Three-level meta-analysis of single-case data regarding the effects of peer tutoring on academic and social-behavioral outcomes for at-risk students and students with disabilities. *Remedial and Special Education*, 42(2), 94-106. https://doi.org/10.1177/0741932519855079 (IF = 2.817)
- Moeyaert, M.** (2019). Quantitative synthesis of research evidence: Multilevel meta-analysis. *Behavior Disorders*, 44, 241-256. https://doi.org/10.1177/0198742918806926 (IF = 1.161)
- Behrman, A., Ferguson, S. H., Akhund, A., & **Moeyaert, M.** (2019). The effect of clear speech on temporal metrics of rhythm in Spanish-accented speakers of English. *Language and Speech*, 62(1), 5–29. https://doi.org/10.1177/0023830917737109 (IF = 1.235)
- \*\*Joo, S., Ferron, J., **Moeyaert, M.**, Beretvas, S. N., & Van den Noortgate, W. (2018). The impact of response-guided baseline phase extensions on treatment effect estimates. *Research in Developmental Disabilities*, 79, 77-87. doi:10.1016/j.ridd.2017.12.018 (IF = 1.630)
- Baker, E. R., Jensen, C.J., **Moeyaert, M.**, & \*Bordoff, S. (2018). Socioeconomic status and early childhood aggression: Moderation by theory of mind for relational, but not physical aggression. *Early Child Development and Care*, 190(8), 1187-1201. https://doi.org/10.1080/03004430.2018.1524379 (IF = 0.824)
- \*Stone, M., Friedlander, M.L., **Moeyaert, M.** (2018). Illustrating novel techniques for analyzing single-case experiments: Effects of pre-session mindfulness practice. *Journal of Counseling Psychology*, 65, 690-702 . (IF = 4.049)
- \*\*Jamshidi, L., Heyvaert, M, Declercq, L., Fernández-Castilla, B., Ferron, J., **Moeyaert, M.**, Beretvas, S. N., & Van den Noortgate, W. (2018). Methodological quality of meta-analyses of single-subject experimental studies. Invited for special issue in *Research in Developmental Disabilities*, 79, 97-115. doi:10.1016/j.ridd.2017.12.016 (IF = 1.630)
- Asaro-Saddler, K., Saddler, B., **Moeyaert, M.**, \*Akhmedjanova, D., \*Bogin, D., & \*McLaughlin, T. (2018). Variability on the spectrum: A self-monitoring single-case design study for students with autism spectrum disorders and attentional deficits. *Journal of Mental Disorders and Treatment*, 4(2), 1–7. doi: 10.4172/2471-271X.1000159 (IF = 0.137)

- \*\*Jamshidi, L., Declercq, L., Ferron, J., **Moeyaert, M.**, Beretvas, S.N., & Van den Noortgate W. (2018). Improving the methodological quality of single-case experimental design meta-analysis. *Journal of Mental Health and Clinical Psychology*, 2(4), 1-9. (IF = 0.137)
- <sup>2</sup>\*\***Moeyaert, M.**, Brosnan, J., Brooks, K., Healy, O., Heyvaert, M., Onghena, P., & Van den Noortgate, W. (2018). Multilevel analysis of multiple-baseline data evaluating precision teaching as an intervention for improving fluency in foundational reading skills for at risk readers. *Exceptionality*, 26(3), 137-161. doi:10.1080/09362835.2016.1238378 (IF = 0.969)
- Conner, P.S., Goral, M., Anema, I., Borodkin, K., Haendler, Y., Knoph, M., Mustelier, C., Paluska, E., Melnikova, Y., & **Moeyaert, M.** (2018). The role of language proficiency and linguistic distance in cross-linguistic treatment effects in aphasia. *Clinical Linguistics & Phonetics*, 32(8), 739-757. doi:10.1080/02699206.2018.1435723 (IF = 1.191)
- \*\*Joo, S., Ferron, J., **Moeyaert, M.**, Beretvas, S., & Van den Noortgate, W. (2017). Approaches for specifying the level-1 error structure when synthesizing single-case data, 87(1), 55-74. *Journal of Experimental Education*. doi:10.1080/00220973.2017.1409181 (IF = 1.867)
- Lobo, M., **Moeyaert, M.**, Babik, I., & Cunha, A. (2017). Single-case experimental design, analysis, and quality assessment for intervention research. *Journal of Neurologic Physical Therapy*, 14, 187-197. doi: 10.1097/NPT.0000000000000187 (IF = 2.524)
- \*\***Moeyaert, M.**, Rindskopf, D., Onghena, P., & Van den Noortgate, W. (2017). Multilevel modeling of single-case data: A comparison of Maximum Likelihood and Bayesian estimation. *Psychological Methods*, 22(4), 760-778. doi:10.1037/met0000136 (IF = 6.485)
- Onghena, P., Michiels, B., Jamshidi, L., **Moeyaert, M.**, & Van den Noortgate, W. (2017). One by one: Accumulating evidence by using meta-analytical procedures for single-case experiments. *Brain Impairment*, 19(1), 33-58. doi:10.1017/BrImp.2017.25 (IF = 0.977)
- Asaro-Saddler, K., Saddler, B., **Moeyaert, M.**, & Ellis-Robinson, T. (2017). Effects of a summarizing strategy on written summaries of children with emotional and behavioral disorders. *Remedial and Special Education*, 38(2), 87-97. doi:10.1177/0741932516669051 (IF = 1.648)
- \*\*Heyvaert, M., **Moeyaert, M.**, Verkempynck, P., Van Den Noortgate, W., Vervloet, M., Ugille, M., & Onghena, P. (2017). Testing the intervention effect in single-case experiments: A

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<sup>2</sup> Brosnan and Moeyaert are jointly first authors.

- Monte Carlo simulation study. *Journal of Experimental Education*, 85(2), 175-196.  
doi:10.1080/00220973.2015.1123667 (IF = 1.867)
- Klingbeil, D., **Moeyaert, M.**, Archerm, C., Chimnoza, T. M., & Zwolski, S. A. (2017). Efficacy of peer-mediated incremental rehearsal for English Language Learners. *School Psychology Review*, 46(1), 122-140. doi:10.17105/SPR46-1.122-140 (IF = 1.064)
- Manolov, R., & **Moeyaert, M.** (2017). Recommendations for choosing single-case data analytical techniques. *Behavior Therapy*, 48(1), 97-114. doi:10.1016/j.beth.2016.04.008 (IF = 3.228)
- Manolov, R., & **Moeyaert, M.** (2017). How can single-case data be analyzed? Software resources, tutorial, and reflections on analysis. *Behavior Modification*, 41(1), 179-228. doi:10.1177/0145445516664307 (IF = 2.024)
- \*\*Moeyaert, M.**, Ugille, M., Beretvas, S., Ferron, J., & Van Den Noortgate, W. (2017). Methods for dealing with multiple outcomes in meta-analysis: A comparison between averaging effect sizes, robust variance estimation and multilevel meta-analysis. *International Journal of Social Research Methodology*, 20(6), 559-572. doi:10.1080/13645579.2016.1252189 (IF = 2.110)
- \*\*Moeyaert, M.**, Maggin, D.M., & Verkuilen, J. (2016). Reliability, validity, and usability of data extraction programs for single-case research designs. *Behavior Modification*, 40(6), 874-900. doi:10.1177/0145445516645763 (IF = 1.455)
- \*\*Moeyaert, M.**, Ugille, M., Ferron, J., Beretvas, S., & Van Den Noortgate, W. (2016). The misspecification of the covariance structures in multilevel models for single-case data: A Monte Carlo simulation study. *Journal of Experimental Education*, 84(3), 473-509. doi:10.1080/00220973.2015.1065216 (IF = 1.588)
- \*\*Moeyaert, M.**, Wauters, K., Desmet, P., & Van Den Noortgate, W. (2016). When easy becomes boring and difficult becomes frustrating: Disentangling the effects of item difficulty level and person proficiency on learning and motivation. *Systems*, 4(1), 1-18. doi:10.3390/systems4010014 (IF = 1.400)
- Vandercruyse, S., ter Vrugte, J., de Jong, T., Wouters, P., van Oostendorp, H., **Moeyaert, M.**, & Elen, J. (2016). The effectiveness of a math game: The impact of integrating conceptual clarifications as support. *Computers in Human Behavior*, 64, 21-33. doi:10.1016/j.chb.2016.06.004 (IF = 3.435)
- \*\*Moeyaert, M.**, Ugille, M., Ferron, J., Onghena, P., Heyvaert, M., & Van den Noortgate, W. (2015). Estimating intervention effects across different types of single-subject

- experimental designs: Empirical illustration. *School Psychology Quarterly*, 25(1), 191-211. doi:10.1037/spq0000068 (IF = 1.68)
- Baek, E., **Moeyaert, M.**, Petit-Bois, M., Van den Noortgate, W., Beretvas, S., & Ferron, J. (2014). The use of multilevel analysis for integrating single-case experimental design results within a study and across studies. *Neuropsychological Rehabilitation*, 24(3/4), 590-606. doi:10.1080/09602011.2013.835740 (IF = 1.11)
- \*\*Ferron, J. M., **Moeyaert, M.**, Van den Noortgate, W., Beretvas, S. N. (2014). Estimating causal effects from multiple-baseline studies: Implications for design and analysis. *Psychological Methods*, 19(4), 493-510 (IF = 4.667)
- Moeyaert, M.**, Ferron, J., Beretvas, S., & Van den Noortgate, W. (2014). From a single-level analysis to a multilevel analysis of single-subject experimental data. *Journal of School Psychology*, 52(2), 191-211. doi:10.1016/j.jsp.2013.11.003 (IF = 2.262)
- Moeyaert, M.**, Ugille, M., Ferron, J., Beretvas, S., & Van den Noortgate, W. (2014). The influence of the design matrix on treatment effect estimates in the quantitative analyses of single-case experimental design research. *Behavior Modification*, 38(5), 665-704. doi:10.1177/0145445514535243 (IF = 1.605)
- \*\*Ugille, M., **Moeyaert, M.**, Beretvas, S., Ferron, J., & Van Den Noortgate, W. (2014). Bias corrections for standardized effect size estimates used with single-subject experimental designs. *Journal of Experimental Education*, 82(3), 358-374. doi:10.1080/00220973.2013.813366 (IF = 1.087)
- \*\***Moeyaert, M.**, Ugille, M., Ferron, J., Beretvas, S., & Van den Noortgate, W. (2013). Three-level analysis of single-case experimental data: Empirical validation. *Journal of Experimental Education*, 82(1), 1-21. doi:10.1080/00220973.2012.745470 (IF = 0.720)
- \*\***Moeyaert, M.**, Ugille, M., Ferron, J., Beretvas, S., & Van den Noortgate, W. (2013). The three-level synthesis of standardized single-subject experimental data: A Monte Carlo simulation study. *Multivariate Behavioral Research*, 48(5), 719-748. doi:10.1080/00273171.2013.816621 (IF = 2.971)
- \*\***Moeyaert, M.**, Ugille, M., Ferron, J., Beretvas, S., & Van Den Noortgate, W. (2013). Modeling external events in the three-level analysis of multiple-baseline across-participants designs: A simulation study. *Behavior Research Methods*, 45(2), 547-559. doi:10.3758/s13428-012-0274-1 (IF = 3.37)
- \*\*Ugille, M., **Moeyaert, M.**, Beretvas, S., Ferron, J., & Van Den Noortgate, W. (2012). Multilevel meta-analysis of single-subject experimental designs: A simulation study.



*Behavior Research Methods*, 44(4), 1244-1254. doi:10.3758/s13428-012-0213-1 (IF = 2.68)

### **Manuscripts under Review in Peer Reviewed Journals (N = 7)**

\*\*Declercq, L., **Moeyaert, M.**, Beretvas, S., Ferron, J., & Van den Noortgate (revise and resubmit). Weighting strategies for multilevel meta-analysis of single-case experimental design data with multiple outcomes. *Multivariate Behavioral Research*.

Puccioni, J., Froiland, J.M., Moeyaert, M., Desir, S. & Galimore, Z. (revise and resubmit). Associations among African American parents' beliefs, involvement, and measures of school readiness. *Journal of Child and Family Studies*.

\*Fingerhut, J., & **Moeyaert, M.** (revise and resubmit). Training individuals to implement discrete trials with fidelity: A meta-analysis. *Focus on Autism and Other Developmental Disabilities* (IF = 0.959)

Ferron, J., Zhiyao, Y., Cheng, K., **Moeyaert, M.**, Beretvas, S.N., & Van den Noortgate, W. (revise and resubmit). Synthesizing single-case experimental designs: Modeling complex data structures. *Behavior Research Methods*.

Verkuilen, J., & **Moeyaert, M.** (under review). Causal heterogeneity, moderation, and mediation in single-case experimental designs: A conceptual overview. *Evaluation and the Health Professions*.

**Moeyaert, M.** (under review). Quantitative synthesis of N-of-1 studies using meta-analysis: Overview methods and application. *Harvard Data Science Review*.

\*Fingerhut, J., & **Moeyaert, M.** (under review). Selecting quantitative analysis techniques in single-case research: Introduction of a user-friendly point-and-click Excel tool. *Journal of School Psychology*.

### **Invited Newsletter Article (N = 1)**

**Moeyaert, M.** (2017). Three-level synthesis of single-subject experimental data: Further extensions, empirical validation and applications. *APA, The Score*.

### **Book Chapter (N = 2)**

**Moeyaert, M.**, Zimmerman, K., & Ledford, J. (2018). Analysis and meta-analysis of single-case experimental data. In J. Ledford & D. Gast (Eds.), *Single-case methodology: Applications in Special Education and Behavioral Sciences*. New York: Routledge.

Virues-Ortega, J., **Moeyaert, M.**, Sivaraman, M., & Fernández Castilla, B. (2021). *Quantifying outcomes in applied behavior analysis*. In Handbook of Applied Behavior Analysis: Integrating Research into Practice. New York: Springer.

### **Work in Progress (N = 10)**

\*Fingerhut, J., Moeyaert, M., Xu, Xinyun, & Manolov, R. (in preparation). Literature review of justifications provided for single-case quantification techniques

\*Akhmedjanova, D., & **Moeyaert, M.** (in preparation). *The effectiveness of writing interventions for second language learners: A single-case experimental design analysis*. Reading and Writing.

\*Dehghan-Chaleshtori, M., **Moeyaert, M.**, & Swan, D. (in preparation). What Works Clearinghouse Design and Evidence Standards for Single-Case Experimental Designs.

**Moeyaert, M.**, Yang, P., & Xu, X. (in preparation). Three-level meta-analysis of single-case research including moderators: Empirical validation using a large scale Monte-Carlo simulation study.

Brunkow, A., **Moeyaert, M.** Kimber, J., Winograd, D.M., Cannon, M., Long, P., & McAndrew, L. M. (in preparation). Comparative effectiveness of non-pharmacological treatments for chronic musculoskeletal pain: A meta-analysis.

Bloester, K. J., & **Moeyaert, M.** (in preparation). Evidence based practices for post-traumatic stress disorder among Veterans and racial and ethnic minority populations: A meta-analysis. *Journal of Traumatic Stress* (IF = 1.926).

\*Woofenden, E., **Moeyaert, M.** Eacker, H., & Quinn, K. (in preparation). The effectiveness of function based interventions on problem behavior for children with emotional behavior disorder: A multilevel meta-analysis.

\*\***Moeyaert, M.**, Cools, W., Ferron, & Van den Noortgate, W. (in preparation). Bootstrap estimation procedures in the context of two-level synthesis of single-case experimental data.

\*\*Verkuilen, J., & **Moeyaert, M.** (in preparation). A high dimensional model is never far away: Inferential LASSO in single-case experimental designs.

Miočević, M., **Moeyaert, M.**, Klaassen, F., Geuke, G. (in preparation). Statistical properties of Bayesian methods for mediation analysis in Single Case Experimental Designs.

## SOFTWARE TOOLS

Declercq, L., Cools, W., Beretvas, S. N., **Moeyaert, M.**, Ferron, J. M., & Van den Noortgate, W. (2018). MultiSCED (Version 1.0) [Web Application]. <http://34.251.13.245/MultiSCED/>

Fingerhut, J., Marbou, K., & **Moeyaert, M.** (2020). Single-Case Metric Ranking Tool (Version 1.2) [Microsoft Excel tool]. <https://www.doi.org/10.17605/OSF.IO/7USBJ>

Xu, X., **Moeyaert, M.**, & Yang, Y. (2021). PowerSCED (Version 1.0) [Web application]. [https://xinyunxu.shinyapps.io/PowerSCED/\\_w\\_8b4d5ac0](https://xinyunxu.shinyapps.io/PowerSCED/_w_8b4d5ac0)

Cacciotti, D., **Moeyaert, M.**, Ferron, J., & Bursali, S. (2021). Single Case Design MVA (Version 1.0) [Mobile application]. <https://singlecasemva.app/>

## GRANT FUNDING

### Federal (*N* = 18)

Role: Principal Investigator

Project: Assessing generalizability and variability of SCED effect sizes using multilevel modeling including moderators

Source: Institute of Educational Sciences

Time Period: 7/1/19-8/31/21

Total Funding: \$224,998 (funded)

Role: Co-Principle Investigator (PI: Wim Van den Noortgate)

Project: Multilevel modeling of SCED data: Handling data and design complexities

Source: Institute of Educational Sciences

Time Period: 7/1/15-8/31/19

Total Funding: \$899,524 (funded)

Role: Co-Principal Investigator (PI: Wendy Machalicek)

Project: Training Institute on Single-Case Intervention Research Design and Analysis

Source: Institute of Educational Sciences

Time Period: 7/1/20-8/31/2023

Total Funding: \$900,000 (funded)

Role: Consultant (PI: Jaime Puccioni)

Project: Estimating the direct and indirect effects preschool teachers' outreach efforts on children's academic and socio-emotional outcomes during the transition to elementary school

Source: Foundation for Child Development

Time Period: 7/1/17-8/31/20

Total Funding: \$150,498 (funded)

Role: Consultant (PI: Ralf Schlosser)

Project: Effects of augmentative and alternative communication interventions on speech production in individuals with autism spectrum disorders and other developmental disabilities: A systematic review and meta-analysis.

Source: Health Resources and Services Administration

Time Period: 7/1/19-6/30/20

Total Funding: \$ 99,993 (funded)

Role: Consultant (PI: Alison Behrman)

Project: Rhythmic entrainment in bilingual speakers with dysarthria

Source: National Institute of Health

Time Period: 7/1/17-6/30/22

Total Funding: \$2,929,315 (funded)

Role: Consultant (PI: Michael Coyne)

Project: New England integrated multi-tiered systems of support

Source: Institute of Educational Sciences

Time Period: 7/1/19-8/31/22

Total Funding: \$ 900,000 (funded)

Role: Consultant (PI: Claudia Chisari)

Project: New treatment for women living with chronic vulvodynia

Source: National Institute of Health

Time Period: 1/1/21-3/1/21

Total Funding: (funded)

Role: Consultant (PI: Ragnar Klein Olsen)

Project: Gut Emotions: Microbiota modulation and effects on fatigue, distress and negative affectivity in psychiatric patients.

Source: Research Unit West - Psychiatric Hospital West, Slagelse

Time Period: 12/1/19-11/30/21

Total Funding: (funded)

Role: Consultant (PI: Kirstine Højgaard Dichmann)

Project: Short therapeutic intervention for mentally disordered offenders

Source: Research Unit West - Psychiatric Hospital West, Slagelse

Time Period: 12/1/19-11/30/21

Total Funding: (funded)

Role: Consultant (PI: Kåre Donskov Nielsen)

Project: Development of phenomenologically informed psychotherapy for patients with schizotypal personality disorder using single-case research

Source: Research Unit West - Psychiatric Hospital West, Slagelse

Time Period: 1/127/20-12/31/21

Total Funding: (funded)

Role: Consultant (PI: Jasmin Gryesten)

Project: Development of an intervention for persistent not on track for patients with depression using single-case research.

Source: Research Unit West - Psychiatric Hospital West, Slagelse

Time Period: 1/127/20-12/31/21

Total Funding: (funded)

Role: Consultant (PI: Peter Shea)

Project: Online learning in community colleges in NY State: Differences between classroom-only and online learners

Source: New York State

Time Period: 7/1/16-8/31/18

Total Funding: (funded)

Role: Consultant (Director Amber Mooney, The Business Council of New York)

Project: The Public Policy Institute Surveys P-TECH Effectiveness

Source: New York State

Time Period: 3/1/20-6/30/20

Total Funding: (funded)

Role: Co-Principal Investigator (PI: Michele Lobo)

Project: Comparative Effectiveness of Parent Education to Optimize Child Outcomes in Early Childhood

Source: National Institutes of Health

Time Period: 4/1/22-3/31/27

Total Requested Funding: 1,900,000 (under review)

Role: Consultant (PI: Ralph Schlosser)

Project: Visual Immersion for Children with Autism Spectrum Disorder in South African Classrooms

Source: Health Resources and Services Administration

Time Period: 7/1/22-6/30/24

Total Funding: \$ 50,000 (under review)

Role: Co-Principal Investigator (PI: Michele Lobo)

Project: The baby play program: Promoting motor, cognitive, and language outcomes for infants at risk for delays by educating parents on optimal early play practices

Source: Institute of Educational Sciences

Time Period: 7/1/21-8/31/25

Total Requested Funding: 1,400,000 (under review)

Role: Co-Principal Investigator (PI: Peter Shea)

Project: Student Achievement, Progress, Persistence, and Success in Higher Education in the Pandemic: An Inter-institutional Investigation

Source: Institute of Educational Sciences

Time Period: 7/1/21-8/31/25

Total Requested Funding: 1,677,108 (under review)

Role: Co-Principal Investigator (PI: David Dai)

Project: Giftedness in the making: A study of dynamic gifted performance across cultures

Source: American Psychological Foundation

Time Period: 7/1/20-8/31/2021

Total Funding: \$ 49,994 (under review)

Role: Senior Personnel (PI: Alan Chen)

Project: MRI-Acquisition of High Performance Computing Nodes to support an Accessible Research and Teaching Instrument

Source: National Sciences Foundation

Time Period: 7/1/20-8/31/2024

Total Funding: \$415,528 Direct Costs (under review)

### **Funding from Foundations and Other External Sponsors ( $N = 5$ )**

Role: Co-Principal Investigator (PI: Milica Miočević)

Project: Single Subject Causal Mediation Analysis

Source: Lorentz center, The Netherlands

Time Period: 7/1/19-8/31/19

Total Funding: \$14,520

Role: Consultant (PI: Alison Behrman)

Project: The clear speech benefit in Spanish-accented speakers of American English

Source: The American Speech-Language-Hearing Association

Time Period: 7/1/16-8/31/18

Total Funding: (funded)

Role: Principal Investigator

Project: Three-level analysis of single-case experimental data: Characteristics and methodological issues

Source: Flemish Research Foundation

Time Period: 7/1/14-8/31/17

Total Funding: \$201, 600 (funded)

Role: Principal Investigator

Project: Bayesian estimation procedures

Source: Flemish Research Foundation

Time Period: 7/1/14-8/31/15

Total Funding: \$10, 000 (funded)

Role: Principal Investigator

Project: Multilevel synthesis of single-case experimental data: Further developments and empirical validation

Source: Flemish Research Foundation

Time Period: 7/1/12-8/31/16

Total Funding: \$86,400 (funded)

### **University at Albany ( $N = 1$ )**

Role: Principal Investigator

Project: Evidence based decisions, research and practice in education through meta-analysis: Reliability and validity of complex coding

Source: Faculty Research Awards Program (FRAP A)

Time Period: 7/1/16-8/31/17

Total Funding: \$5,607 (funded)

### **Katholieke University Leuven – KU Leuven ( $N = 1$ )**

Role: Principal Investigator

Project: Multilevel modeling: misspecification and estimation procedures

Source: Junior Mobility Program, KU Leuven

Time Period: 7/1/12-8/31/13

Total Funding: \$10,500 (funded)

### **Proposals Not Funded ( $N = 7$ )**

Role: Co-Principal Investigator (PI: Wim Van den Noortgate)

Project: Handling methodological complexities in multilevel meta-analytic data

Source: Institute of Educational Sciences

Time Period: 7/1/20-8/31/23  
Total Requested Funding: \$ 1,385,985 (under review)

Role: Co-Principal Investigator (PI: Michele Lobo)  
Project: Efficacy of early parent education for improving motor and cognitive outcomes for infants born preterm.  
Source: National Institute of Health  
Time Period: 7/1/20-8/31/24  
Total Funding: \$ 3,715,908 (under review)

Role: Principal Investigator  
Project: Assessing generalizability and variability of SCED effect sizes using multilevel modeling including moderators  
Source: National Sciences Foundation  
Time Period: 7/1/18-8/31/22  
Total Funding: \$199,493

Role: Principal Investigator  
Project: The power of designing multilevel modeling to synthesize effect sizes including moderators  
Source: American Psychology Association Division 15 – Educational Psychology  
Time Period: 7/1/19-8/31/21  
Total Funding: \$6,000

Role: Principal Investigator  
Project: Assessing generalizability and variability of SCED effect sizes using multilevel modeling including moderators  
Source: Institute of Educational Sciences  
Time Period: 7/1/17-8/31/19  
Total Funding: \$199,493

Role: Principal Investigator  
Project: Using quasi-likelihood to process single case data for meta-analysis  
Source: Institute of Educational Sciences  
Time Period: 7/1/17-8/31/19  
Total Funding: \$520,187

Role: Consultant (PI - Michelle Lobo)  
Project: Exoskeletal garments to improve function for children with movement impairments  
Source: National Institute of General Medical Sciences  
Time Period: 7/1/17-8/31/20  
Total Funding: \$300,000



## PRESENTATIONS AT SCHOLARLY CONFERENCES (N = 60)

\* indicates student co-author

**Moeyaert, M.**, & Van den Noortgate, W. (2021, June). *Using multilevel modeling to meta-analyze single-case experimental design studies' results*. Postconference workshop at the Small Sample Size Solutions Conference, Utrecht, the Netherlands. <https://s4.wp.hum.uu.nl/> (conference canceled)

**Moeyaert, M.**, & Ferron, J. (2021, April). *Using the mobile application SCD-MVA for masked visual analysis of single-case studies*. Workshop at the Small is Beautiful Symposium on Single-Case Experimental Designs, Leuven, Belgium.

Puccioni, J., Froiland, J., & **Moeyaert, M.** (2021, April). *Differential associations among transition practices, parental perceptions, involvement, and school readiness for children from economically disadvantaged backgrounds*. Paper accepted for oral presentation at the 2021 SRCD Virtual Biennial.

\*Fingerhut, J., & **Moeyaert, M.** (2021, April). *Creating an Excel Tool to help researchers pick and rationalize SCED metric* [Structured Poster Session]. Virtual Annual Meeting of the American Educational Research Association.

\*Dehghan-Chaleshtori, M., & **Moeyaert, M.** (2021, April). *Evaluating methodological quality of SCED studies using the WWC design and evidence standards*. [Structured Poster Session]. Virtual Annual Meeting of the American Educational Research Association.

\*Fingerhut, J., \*Xu, X. & **Moeyaert, M.** (2021, April). *Impact of Within-Case Variability on Tau-U and Regression-Based Effect Size Measures for Single-Case Experimental Data*. Virtual Annual Meeting of the American Educational Research Association.

\* Yang, P., \*Xu, X.,\* Kim, E, & **Moeyaert, M.** (2021, April). *Power to estimate moderator effects in two-level hierarchical linear modeling of single-case data*. Virtual Annual Meeting of the American Educational Research Association.

Wendt, O. Schlosser, R., & **Moeyaert, M.** (2020, November). *Meta-analysis of single-case-experimental designs: The effects of augmentative and alternative communication on speech production in autism and developmental disorders*. AESF 2020. Paper presented at the Working Group of Empirical Special Educational Research. <https://www.uni-potsdam.de/de/inklusion/aesf-herbsttagung-2020>.

Wendt, O. Schlosser, R., & **Moeyaert, M.** (2020, August). *Effects of AAC interventions on speech production in ASD: Systematic review and meta-analysis*. ISAAC 2020. International

Society for Augmentative and Alternative Communication, Cancun, Mexico.  
<https://www.isaac-online.org/english/home/> (conference canceled).

**Moeyaert, M.** (2020, June). *Using multilevel modeling to meta-analyze single-case experimental design studies' results*. Postconference workshop at the Small Sample Size Solutions Conference, Utrecht, the Netherlands. <https://s4.wp.hum.uu.nl/> (conference canceled).

Wendt, O. Schlosser, R., & **Moeyaert, M.** (2020, May). *The effects of augmentative and alternative communication interventions on speech production in autism spectrum disorder: A systematic review and meta-analysis*. International Society for Autism Research, Seattle, WA. <https://www.autism-insar.org/page/2020AnnMtg> (conference canceled).

\*Xu, X., \*Kim, E, & **Moeyaert, M.** (2020, April). Moderators in meta-analyses of single-case experimental design studies. [Student in Progress Gala]. Annual Meeting of the American Educational Research Association. San Francisco, CA (Conference Canceled)

\*Yang, P, \*Xu, X., & **Moeyaert, M.** (2020, April). Bootstrap multilevel modeling for single-case experimental design studies. [Student in Progress Gala]. AERA Annual Meeting of the American Educational Research Association. San Francisco, CA (Conference Canceled)

**Moeyaert, M.** & \*Bursali, S. (2020, Apr 17 - 21) *Masked Visual Analysis for Interrupted Time Series Data* [Structured Poster Session]. Annual Meeting of the American Educational Research Association. San Francisco, CA <http://tinyurl.com/y63dhxpl> (Conference Canceled)

\*Xu, X. & **Moeyaert, M.** (2020, Apr 17 - 21) *Power and Type I Error of Two-Level Hierarchical Linear Modeling of Single-Case Data: Misspecification of Variances* [Structured Poster Session]. Annual Meeting of the American Educational Research Association. San Francisco, CA <http://tinyurl.com/yxkggxxy> (Conference Canceled)

\*Fingerhut, J., \*Xu, X. & **Moeyaert, M.** (2020, Apr 17 - 21) *Impact of Within-Case Variability on Tau-U and Regression-Based Effect Size Measures for Single-Case Experimental Data* [Roundtable Session]. Annual Meeting of the American Educational Research Association. San Francisco, CA <http://tinyurl.com/s3drdke> (Conference Canceled)

**Moeyaert, M.** (December, 2019). *SCED analysis techniques with the emphasis on moderation and mediation*. Oral presentation at the Department of Psychiatry – West in Slagelse, Denmark.

- Quinn, K., **Moeyaert, M.**, \*Woofenden, E., \*Eacker, H., (2019, October 4-5). *A meta-analysis to examine using functional behavioral assessment to decrease problem behavior in students with emotional behavior disorders* [Poster presentation]. National PBIS Leadership Forum, Chicago, IL.
- \*Xu, X. & **Moeyaert, M.** (2019, October). *Power and Type I error of two-level HLM of single-case data: Misspecification of variances*. Paper presented at the North Eastern Research Association. Trumbull, Connecticut.
- \*Fingerhut, J., & **Moeyaert, M.** (September, 2019). *Training individuals to implement discrete trials with fidelity: A meta-analysis*. Paper presented at Association for Behavior Analysis International at Stockholm, Sweden.
- Moeyaert, M.** (2019, August). *Overview single-case experimental design techniques*. Paper presented at the Single-Subject Causal Mediation Analysis Conference. Leiden, The Netherlands.
- \*Fingerhut, J. & **Moeyaert, M.** (May, 2019). *Training individuals to implement discrete trials with fidelity: A meta-analysis*. Poster presented at Association for Behavior Analysis International at Chicago, Illinois.
- \*Jamshidi, L., Ferron, J., **Moeyaert, M.**, Beretvas, S.N., & Van den Noortgate, W. (2019, April). *Small sample bias correction in multilevel meta-analyses of standardized single-case experimental data*. Paper presented at the Annual Meeting of the American Educational Research Association. Toronto, CA.
- \*Akhmedjanova, D., & **Moeyaert, M.** (2019, April). *The quantitative analysis of mixed single-case experimental data*. Paper presented at the Annual Meeting of the American Educational Research Association. Toronto, CA.
- \*Declercq, L., Cools, W., Beretvas, S. N., **Moeyaert, M.**, Ferron, J. M., & Van den Noortgate, W. (2019, April). *MultiSCED: A tool for (meta-)analyzing single-case experimental data*. Poster presented at the Annual Meeting of the American Educational Research Association. Toronto, CA.
- \*Hamilton, B., Beretvas, S.N, & **Moeyaert, M.** (2019, April). Recognizing model uncertainty using bayesian model averaging. Poster presented at the Annual Meeting of the American Educational Research Association. Toronto, CA.
- Moeyaert, M.** (2019, January). *Methods for meta-analysis of single-case experimental data*. Paper presented at the Annual Principal Investigators Meeting (IES). Washington, DC.

- \*Rodabaugh, E., & **Moeyaert, M.** (2018, October). *Bayesian estimation of autocorrelation: Multilevel modeling of single-case design data*. Paper presented at the Northeastern Educational Research Association. Trumbull, CT.
- \*Declercq, L., Beretvas, S., **Moeyaert, M.**, Ferron, J., & Van den Noortgate, W. (2018, May). *Handling count data in the analysis of single-case data: The Poisson distribution*. Paper presented at the Modern Modeling Conference. Storrs, CT.
- \*Rodabaugh, E., & **Moeyaert, M.** (2018, April). *Hierarchical Linear Modeling of Single-Case Experimental Data: Bayesian Estimation*. Poster presented at the Annual Meeting of the American Educational Research Association. New York City, NY.
- \*Akhmedjanova, D., Bogin, D., & **Moeyaert, M.** (2018, April). *Power to Test Predictor Effects in Two-Level Modeling of Single-Case Data*. Poster presented at the Annual Meeting of the American Educational Research Association. New York City, NY.
- Moeyaert, M.**, Beretvas, S.N., \*Rodabaugh, E., Ferron, J., & Van den Noortgate, W. (2018, March). *How to improve Bayesian estimation when synthesizing single-case experimental design studies' random effects variance components?* Paper presented at the S4 conference – Small Sample Size Solutions. Utrecht, the Netherlands.
- Beretvas, S.N., Gonzalez, D. P., Park, S., **Moeyaert, M.**, Van den Noortgate, W., Ferron, J. (2018, March). *How can we obtain unbiased ICC estimates for small sample size datasets?* Paper presented at the S4 conference – Small Sample Size Solutions. Utrecht, the Netherlands.
- Moeyaert, M.** (2017, November). *Multilevel modeling of single-subject experimental data: Methodological innovations*. One day symposium on single-subject designs at the Center for the Promotion of Research Involving Innovative Statistical Methodology (New York University). New York City, NY.
- \*Rodabaugh, E., & **Moeyaert, M.** (2017, October). *A multilevel modeling of single-case data tutorial for the applied researcher*. Paper presented at the Northeastern Educational Research Association. Trumbull, Ct.
- Moeyaert, M.** (2017, May). *Multilevel modeling of single-subject experimental data: Bayesian estimation*. Presentation at the Center for the Promotion of Research Involving Innovative Statistical Methodology (New York University). New York City, NY.
- Moeyaert, M.** (2017, April). *Using multilevel modeling to meta-analyze single-case experimental design studies' result*. Workshop at Annual Meeting of the American Educational Research Association. San Antonio, TX.

- \*Akhmedjanova, D., \*Bogin, D., & **Moeyaert, M.** (2017, April). *The power to test moderator effects in multilevel modeling of single-case data*. Paper presented at the Annual Meeting of the American Educational Research Association. San Antonio, TX.
- Moeyaert, M.**, & Verkuilen, J. (2017, April). *A quasi-likelihood/generalized estimating equation approach to count outcomes in single case experimental design*. Paper presented at Annual Meeting of the American Educational Research Association. San Antonio, TX.
- Moeyaert, M.** (2016, May). *Bootstrapping for two-level synthesis of single-case experimental data*. Paper presented at the Modern Modeling Methods Conference. Storrs, CT.
- Moeyaert, M.**, & Verkuilen, J. (2016, April). *The extended generalized linear model for counts or free proportion outcomes in single-case designs*. Paper presented at the Annual Meeting of the American Educational Research Association. Washington, DC.
- Moeyaert, M.**, Ugille, M., Van Den Noortgate, W., Heyvaert, M., & Onghena, P. (2015, April). *Misspecification issues in multilevel modeling of single-case experimental designs: Empirical illustrations*. Paper presented at the annual meeting of the American Educational Research Association. Chicago, IL.
- Heyvaert, M., **Moeyaert, M.**, Ugille, M., Van Den Noortgate, W., & Onghena, P. (2015, April). *The Type I error rate and the statistical power of testing the intervention effect in single-case experiments using and hierarchical linear model or using an additive combination of randomization tests: A Monte Carlo simulation study*. Poster presented at the Annual Meeting of the American Educational Research Association. Chicago, IL.
- Moeyaert, M.**, & Van den Noortgate, W. (2014, August). *Three-level meta-analytic models to combine several types of single-case designs*. Paper presented at the International Conference on Computational Statistics. Genève, Switzerland.
- Van Den Noortgate, W., **Moeyaert, M.**, Ugille, M., Beretvas, S., & Ferron, J. (2014, March). *The synthesis of single-subject experimental data: Extensions of the basic multilevel model*. Paper presented at the Society for Research on Educational Effectiveness. Washington, DC.
- Moeyaert, M.**, Bunuan, R., & Beretvas, S. (2014, April). *Multilevel meta-analysis of alternating treatment design studies: A Monte Carlo simulation study*. Poster presented at the Annual Meeting of the American Educational Research Association. Philadelphia, PA.

- Moeyaert, M.**, Ugille, M., Onghena, P., & Van Den Noortgate, W. (2014, April). *Combining several types of single-case experimental designs using a three-level meta-analysis*. Poster presented at the Annual Meeting of the American Educational Research Association. Philadelphia, PA.
- Heyvaert, M., **Moeyaert, M.**, Ugille, M., Van Den Noortgate, W., & Onghena, P. (2014, April). *Comparing hierarchical linear models and randomization tests in the analysis of multiple baseline data*. Poster presented at the Annual Meeting of the American Educational Research Association. Philadelphia, PA.
- Van den Noortgate, W., **Moeyaert, M.**, Ugille, M., Beretvas, S., & Ferron, J. (2014, March). *The synthesis of single-subject experimental data: Extensions of the basic multilevel model*. Paper presented at the Society for Research on Educational Effectiveness. Washington, DC.
- Moeyaert, M.**, Ugille, M., Ferron, J., Beretvas, S., & Van Den Noortgate, W. (2013, May). *The misspecification of the covariance structures in multilevel models for single-case data: A Monte Carlo simulation study*. Paper presented at the Modern Modeling Methods Conference. Storrs, CT.
- Moeyaert, M.**, Ugille, M., Ferron, J., Beretvas, S., & Van Den Noortgate, W. (2013, May). *Synthesizing single-subject studies: Empirical examination of a three-level analytic model*. Paper presented at the Campbell Collaboration Colloquium. Chicago, IL.
- Moeyaert, M.**, Ugille, M., Ferron, J., Beretvas, S., & Van Den Noortgate, W. (2013, May). *Modeling external events in the three-level analysis of multiple-baseline across participants designs: A simulation study*. Poster presented at the American Educational Research Association. San Francisco, CA.
- Ugille, M., **Moeyaert, M.**, & Van Den Noortgate, W. (2013, April). *Combining group-comparison and single-subject experimental designs*. Poster presented at the American Educational Research Association. San Francisco, CA.
- Moeyaert, M.** (2013, April). *Multilevel synthesis of single-case experimental data: Empirical validation of the basic three-level model*. Paper presented at the Texas University's Educational Statistics and Psychometrics Meeting. Austin, TX.
- Moeyaert, M.** (2013, April). *Modeling external events in the three-level analysis of multiple-baseline across participants designs: A simulation study*. Paper presented at the Texas University's Educational Statistics and Psychometrics Meeting. Austin, TX.

- Ferron, J., Van Den Noortgate, W., Beretvas, S., **Moeyaert, M.**, Ugille, M., Petit-Bois, M., & Baek, E. (2013, March). *Synthesis of single-case experimental data: A comparison of alternative multilevel approaches*. Paper presented at the Society for Research on Educational Effectiveness. Washington, DC.
- Ugille, M., **Moeyaert, M.**, Beretvas, S., Ferron, J., & Van Den Noortgate, W. (2012, August). *Multilevel meta-analysis of single-subject experimental designs*. Paper presented at the Measuring Behavior conference. Utrecht, The Netherlands.
- Moeyaert, M.**, Ugille, M., Ferron, J., Beretvas, S., & Van Den Noortgate, W. (2012, August). *Multilevel synthesis of raw and standardized single-case experimental data: An empirical validation*. Paper presented at the International Conference on Computational Statistics. Limassol, Cyprus.
- Moeyaert, M.**, Ugille, M., Ferron, J., Beretvas, S., & Van Den Noortgate, W. (2012, May). *Three-level analysis of raw single-case experimental data: Empirical validation*. Paper presented at the Modern Modeling Methods Conference. Storrs, CT.
- Van Den Noortgate, W., **Moeyaert, M.**, Ugille, M., Beretvas, S., & Ferron, J. (2012, March). *Multilevel synthesis of single-case experimental data: An empirical validation*. Paper presented at the Society for Research on Educational Effectiveness. Washington, DC.

## **INVITED PRESENTATIONS (N = 12)**

- Moeyaert, M.** (September, 2021). *Regression and multilevel modeling in STATA*. Workshop at the Department of Children, Youth & Families – Washington State.
- Moeyaert, M.** (May, 2021). *Methodological innovations for the design and analysis of SCEDs*. Oral presentation for the Behaviormetrica Society.
- Moeyaert, M.** (March, 2021). *Basic and intermediate statistical significance testing in STATA*. Workshop at the Department of Children, Youth & Families – Washington State.
- Moeyaert, M.** (March, 2021). *Introduction to SCED: Possibilities and limits of the design*. Oral presentation at the Department of Psychiatry – West in Slagelse, Denmark.
- Moeyaert, M.** (January, 2021). *Multilevel meta-analysis of single-case experimental data: Recent methodological developments and innovations*. Oral presentation at the Quantitative Seminar – McGill University.
- Moeyaert, M.** (January, 2021). *Introduction to SCED: Analysis techniques*. Oral presentation at the Department of Psychiatry – West in Slagelse, Denmark.
- Moeyaert, M.** (December, 2020). Common statistical methods used in the analysis of n-of-1 trials. Symposium on n-of-1 trials. <https://www.n1app.org/n-of-1-trials-sced-symposium>
- Moeyaert, M.** (2019, December). *Moderation and mediation analysis for single-case experimental designs*. Research Unit West - Psychiatric Hospital West, Slagelse, Denmark.
- Moeyaert, M.** (2017, May). *Bayesian estimation in the two-level modeling of single-case experimental data*. Promotion of Research Involving Innovative Statistical Methodology. New York University, NY.
- Moeyaert, M.** (2014, June). *The basics of multilevel modeling*. Two-day workshop. Leuven, Belgium.
- Moeyaert, M.** (2014, May). *Meta-analysis: Introduction and demo software application*. Two-day Systematic Review Workshop Quantitative and Qualitative Approaches to Synthesis. Utrecht, The Netherlands.
- Moeyaert, M.** (2014). Analysis and meta-analysis of single-case data. Delaware Universities' Educational Statistics Meeting. Newark, February 12, 2014.



## **OTHER PRESENTATIONS (N = 2)**

**Moeyaert, M.** (2017, August). Workshop: *Using multilevel modeling to meta-analyze single-case experimental design studies' results*. School of Education Day. University at Albany, Albany, NY.

**Moeyaert, M., \*Turan, M., \*Rodabaugh, E., & \*Franklin, D.** (2016, September). *Meta-analysis: Effectiveness of peer-tutoring on academic and social outcomes*. School of Education Day. University at Albany, Albany, NY.

## **TEACHING**

### **Graduate Courses Taught, University at Albany**

EPSY 732     Single-Case Research Design and Analysis (F18, F20)  
EPSY 724     Regression Analysis (S18, S19, S20)  
EPSY 530     Statistical Methods I (F15, Su16, Su17, F17, F18, F19, F20)  
EPSY 630     Statistical Methods II (S16, F16, S17, F17, S18, S19)  
EPSY 755     Selected Topics in Research Design (S16)  
EPSY 797     Educational Psychology Research Apprenticeship (S16, F16, S17, F17, S18, F18, S19, F19)  
EPSY 697     Independent Study in Educational Psychology (S16, S17, S18, F18, S19, S20)

### **Courses Taught at Other Institutions**

**University of Michigan;** Inter-university Consortium for Political and Social Research (ICPSR) Summer Program in Quantitative Methods of Social Research. Usage and Application of Meta-Analysis Techniques (SU 20, SU21)

### **Workshops**

Regression analysis, Regression discontinuity, Hierarchical Linear Modeling, Survival Analysis, Advanced data analysis using R, Meta-Analysis, Data analysis using SAS, Propensity score analysis, Single-case experimental design and analysis.

### **Doctoral Dissertation Committees (N = 17)**

Arianna Doss (proposal approved). *Investigating growth slopes in math CBM using AIMSweb group-administered math probes in the school's second and third grade classrooms*. School Psychology. **Member**.

Samantha Bordoff (proposal approved). *Social Stories presented on the iPad to improve the classroom behavior of children with Autism Spectrum Disorders*. Educational Psychology & Methodology. **Member**.

Quan Chen (proposal approved). *Multivariate meta-analysis of the effectiveness of mobile learning on academic performance*. Educational Psychology & Methodology. **Member**.

Lynsay Paiko (proposal approved). *Investigating Constructs of White guilt and White shame as mediators for relationship between awareness of oppression/privilege and anti-racism in White counseling students*. Counseling Psychology. **Member**.

Elizabeth Ann S. Kelly (proposal approved). *Trends in International Mathematics and Science Study: Variation in Demographic Prediction of Girls' Math Achievement*. Educational Psychology & Methodology. **Co-Chair**.

Xinyun Xu (proposal in progress). *Developing a new method to detect true intervention effects for single-case experimental design data: the Critical value*. Educational Psychology & Methodology. **Chair**.

Tom Robertson (proposal in progress). *Missing data methods for longitudinal and multilevel data*. Educational Psychology & Methodology. **Co-Chair**.

Lawrence Peterson (proposal in progress). *Using single case design to assess the effect of an Acceptance and Commitment Therapy Workshop on general distress in attorneys*. Counseling Psychology. **Co-Chair**.

Maria Haji-Georgi (proposal in progress). *Mindfulness Intervention to reduce burnout amongst teachers in Special Education*. **Member**.

Lexy Payne (proposal in progress). *Analyzing simulated class-wide math intervention data to evaluate the reliability and accuracy of making intervention decisions at the class-wide level*. **Member**.

Halley Eacker (2021). *Addressing the development of reading comprehension in students with ASD: A meta-analysis*. Educational Psychology & Methodology. **Member**.

Joelle Fingerhut (2021). *Developing and Testing an Excel Tool to Help Users Select and Justify Quantification Techniques Used for Single-Case Experimental Design Studies..* Educational Psychology & Methodology. **Chair**.

Sijun Zhang (2020). *Reliability of individual items in a scale: Simulation study*. Educational Psychology & Methodology. **Member**.

Diana Akhmedjanova (2020). *The effectiveness of writing interventions for second language learners: A single-case experimental design analysis*. Educational Psychology & Methodology. **Member**.

Laleh Jamshidi (2019). *Pennies make pounds: Multilevel meta-analysis of single-case experimental data*. Psychology and Educational Sciences, KU Leuven. **Co-chair**.

Haiyang Su (2019). *A new lens on academic intrinsic motivation*. Educational Psychology & Methodology. **Member**.

Marianne Stone (2017). *Effects of brief mindfulness practice on perceptions of therapist empathy, self-awareness, and the real relationship*. Counseling Psychology. **Member**.

#### **Master's Thesis (N = 1)**

Merve Turan (2017). *Multilevel synthesis of peer-tutoring interventions investigating the effect on social and academic outcomes*. Educational Psychology & Methodology. **Chair**.

#### **SERVICE**

##### **Department of Educational and Counseling Psychology**

**Member**, re-appointment committee Tammy Ellis-Robinson, 2020-Present

**Chair**, Doctoral program and Admission Committee, 2020-Present

**Chair**, Research Committee Division of Educational Psychology and Methodology, September 2019 – present

**Chair**, Doctoral Comprehensive Examination Committee, July 2018 – present

**Member**, Academic Standards Committee

**Member**, Master's Admission Committee, 2015-2020

**Member**, Advanced Quantitative Methods Certificate Committee

**Member**, Search Committee for assistant professor of Special Education, 2016 – 2017 and 2017-2018

**Member**, Doctoral Comprehensive Examination Committee, 2015 – 2018

**Chair**, Master's Admission Committee, July 2016 – December 2017

##### **School of Education**

**Member**, Faculty Council, School of Education, Spring 2018

##### **University at Albany**

**Member**, Council on Research, Spring 2018

**Member**, University Senate, Spring 2018

## Professional Service

### **Mentor Grant, NRSA Fellowship, 2021-2022**

**Title grant:** Time lag as a moderator of parental control effects on child anxiety outcomes.

**PI:** Tristin Nyman

### **Advisory Committee, Institute of Education Sciences, 2022-2024**

**Title grant:** A Meta-Analysis of Interventions Aimed at Improving Mathematical Problem Solving: Project iMAPS

**PI:** Corey Peltier

**Review Panel, Institute of Education Sciences, 2020 - present**

**Editorial Board, Journal of Experimental Education, 2018 – present**

**Guest Editor, Evaluation & The Health Professions, 2020**

Special Issue “Single Subject Causal Mediation Analysis”

**MultiSCED Webinar, University of Groningen, 2019**

**Webinar Single-Case Experimental Design and Analysis, University of Leiden, The Netherlands, 2020.**

**Webinar Design Comparable Effect Size Estimator, Institute of Educational Sciences.**

**Workshop Meta-Analysis, Introduction to R, Introduction to SAS, and Regression discontinuity**

**Ad Hoc Reviewer, Perspectives on Behavior Science, 2021 – present**

**Ad Hoc Reviewer, Human Behavior and Emergent Technologies, 2020 – present**

**Ad Hoc Reviewer, Journal of Research on Educational Effectiveness, 2020 – present**

**Ad Hoc Reviewer, Statistics in Medicine, 2020 - present**

**Ad Hoc Reviewer, Journal of Modern Applied Statistical Methods, 2019 – present**

**Ad Hoc Reviewer, Behavior Disorders, 2019 – present**

**Ad Hoc Reviewer, Developmental Neurorehabilitation, 2019 – present**

**Ad Hoc Reviewer, Behavior Therapy, 2019 - present**

**Ad Hoc Reviewer, British Journal of Mathematical and Statistical Psychology, 2019 - present**

**Ad Hoc Reviewer, Remedial and Special Education, 2019 - present**

**Ad Hoc Reviewer, Healthcare, 2019 - present**

**Ad Hoc Reviewer, Methodology, 2018 present**

**Ad Hoc Reviewer, Research Synthesis Methods, 2017 - present**

**Ad Hoc Reviewer, Journal of Experimental Education, 2017 - present**

**Ad Hoc Reviewer, Journal of Evidence-Based Communication Assessment and Intervention, 2017 - present**

**Ad Hoc Reviewer, Journal of Educational and Behavioral Statistics, 2017 – present**

**Ad Hoc Reviewer, Plos one, 2017 – present**

**Ad Hoc Reviewer, Journal of Behavioral Education, 2016 – present**

**Ad Hoc Reviewer, Psychological Methods, 2015 – present**

**Ad Hoc Reviewer, Multivariate Behavior Research, 2015 – present**

**Ad Hoc Reviewer**, *Journal of Autism and Developmental disorders*, 2015 – present

**Ad Hoc Reviewer**, *Journal of School Psychology*, 2015 – present

**Ad Hoc Reviewer**, *Journal of Contextual Behavioral Science*, 2015 – present

**Ad Hoc Reviewer**, *BMC Medical Research Methodology*, 2015 – present

**Ad Hoc Reviewer**, *Behavior Analysis: Research and Practice*, 2015 – present

**Ad Hoc Reviewer**, *Behavior Modification*, 2014 – present

**Ad Hoc Reviewer**, *Behavior Research Methods*, 2013 – present

**Chair**, symposium (Advanced Statistical Methods for Complex Data), Annual Meeting of the American Educational Research Association conference, 2021

**Chair**, symposium (Advances in Multilevel Modeling for Causal Inferences), Annual Meeting of the American Educational Research Association conference, 2021

**Chair**, symposium (Item Response Theory with Complex Data), Annual Meeting of the American Educational Research Association conference, 2021

**Chair**, symposium (Fancy Structural Equation Modeling and Hierarchical Linear Modeling), Annual Meeting of the American Educational Research Association conference, 2021

**Chair**, structured poster session (analysis and meta-analysis of SCEDs), Annual Meeting of the American Educational Research Association conference, 2013, 2019, 2021

**Chair**, symposium (Multilevel models, multiple imputation, and latent models), Annual Meeting of the American Educational Research Association conference, 2019

**Chair**, symposium, Northeastern Research Association conference, 2017, 2018

**Abstract Reviewer**, Annual Meeting of the American Educational Research Association, 2016, 2017, 2018, 2019, 2020

**Abstract Reviewer**, Northeastern Research Association conference, 2017, 2018, 2019

**Reviewer**, systematic review and meta-analysis SIG award, 2017 – present

## **PROFESSIONAL AFFILIATIONS**

Member of American Educational Research Association

Division D

Meta-Analysis Special Interest Group

Multilevel Modeling Special Interest Group

Member of American Psychological Association (Division 5)

Member of Northeastern Educational Research Association

Member of International Collaborative Network for N-of-1 Clinical Trials

Research Fellow at KU Leuven – Belgium

Research Fellow Graduate Center – City University of New York, New York