

Curriculum Vitae
MARIOLA MOEYAERT, Phd, MBA
Associate Professor of Statistics, President Statistical Solutions Inc.
<http://statisticalsolutionsinc.com/>
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

- 2019 – Present **President Statistical Solutions Inc.**
- 2018 - Present **Associate Professor Statistics**, Educational and Counseling Psychology, University at Albany, School of Education, State University of New York.
- 2015 - 2018 **Assistant Professor 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.

PUBLICATIONS

* indicates student co-author

** indicates methodological paper

Refereed Articles¹ (N = 45)

Miočević, M., Klaassen, F., Geuke, G., **Moeyaert, M.**, & Maric, M. (in press). Using Bayesian methods to test mediators of intervention outcomes in single case experimental designs (SCEDs). *Evidence-based Communication Assessment and Intervention*. (IF = 0.83)

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)

Joo, S., Ferron, J., **Moeyaert, M., Beretvas, S. N., & Van den Noortgate, W. (in press). The impact of response-guided baseline phase extensions on treatment effect estimates. *Research in Developmental Disabilities*. doi:10.1016/j.ridd.2017.12.018 (IF = 1.630)

Declercq, L., Jamshidi, L., Fernández-Castilla, B., Beretvas, S., **Moeyaert, M., Ferron, J., & Van den Noortgate, W. (in press). Analysis of single-case experimental count data using the linear mixed effects model: A simulation study. *Behavior Research Methods*, 1-21. <https://doi.org/10.3758/s13428-018-1091-y> (IF = 3.623)

*Jamshidi, L., *Declercq, L., Fernández-Castilla, B., Ferron, J., **Moeyaert, M.**, Beretvas, S.N., & Van den Noortgate, W. (2019). Bias adjustment in multilevel meta-analysis of standardized single-case experimental data. *Journal of Experimental Education*, 1-18. <https://doi.org/10.1080/00220973.2019.1658568> (IF = 1.867)

Declercq, L., Cools, W., Beretvas, S. N., **Moeyaert, M.**, Ferron, J. M., & Van den Noortgate, W. (2019). MultiSCED: A tool for (meta-)analyzing single-case experimental data. *Behavior Research Methods*, 1-16. doi.org/10.3758/s13428-019-01216-2 (IF = 3.623)

¹ 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.

- 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. (2019). 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*. <https://doi.org/10.1177/0741932519855079> (IF = 1.630)
- 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)
- 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*, 1–15. <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)
- 2**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.000000000000187 (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)

² Brosnan and Moeyaert are jointly first authors.

- 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 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)

- Vandercruysse, 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 = 9)

****Declercq, L., Jamshidi, L., Fernández-Castilla, B., Moeyaert, M.**, Beretvas, S., Ferron, J., & Van den Noortgate, W. (revised and resubmit). Multilevel meta-analysis of individual participant data of single-case experimental designs: one-stage versus two-stage methods *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*.

Moeyaert, M., *Akhmedjanova, D., Ferron, J., Beretvas, S., & Van Den Noortgate, W. (revise and resubmit). The quantitative analysis of mixed single-case experimental data. *Evidence-Based Communication and Intervention*.

*Jamshidi, L., **Moeyaert, M.**, Ferron, J. Beretvas, S. N., & Van den Noortgate, W. (revise and resubmit). A systematic review of single-case experimental design meta-analyses: Characteristics of study designs, data, and analyses. *Educational Research Review*. (IF = 3.839)

****Joo, S., Ferron, J., Moeyaert, M.**, Beretvas, S., & Van den Noortgate, W. (revise and resubmit). 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)

*Fingerhut, J., & **Moeyaert, M.** (revise and resubmit). Training individuals to implement discrete trials with fidelity: A meta-analysis. *Journal of Autism and Developmental Disorders* (IF = 3.34)

*Fingerhut, J., *Xinyun, X., & **Moeyaert, M.**, (revised and resubmit). Impact of within-case variability on Tau-U and regression-based effect size measures for single-case experimental data. *Evidence-Based Communication and Intervention*.

*Jamshidi, L., *Declercq, L., Fernández-Castilla, B., Ferron, J., Moeyaert, M., Beretvas, S.N., & Van den Noortgate, W. (under review). Multilevel meta-analysis of multiple regression coefficients from single-case experimental studies. *Journal of Experimental Education*. (IF = 1.867)

Asaro-Saddler, K., **Moeyaert, M.**, *Xinyun, X., & *Zhao, A. (under review). 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.

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 = 1)

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.

Work in Progress (N = 5)

*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.**, *Akhmedjanova, D., & *Bogin, D. (in preparation). The power to test moderator effects in multilevel modeling of single-case data.

****Moeyaert, M.**, Cools, W., Ferron, J., Beretvas, S., & 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.

GRANT FUNDING

Federal (N = 13)

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: 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: Ralph 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: 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: 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: 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: 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: 7/1/20-8/31/24

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

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: 7/1/20-8/31/2022

Total Funding: (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 = 6)

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 = 44)

* indicates student co-author

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 = 5)

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)
EPSY 724	Regression Analysis for Counseling Research (S18, S19, S20)
EPSY 530	Statistical Methods I (F15, Su16, Su17, F17, F18, F19)
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)

Doctoral Dissertation Committees ($N = 15$)

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

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.**

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.* **Member.**

Joelle Fingerhut (proposal in progress). *Self-guided training manual intervention for the analysis of single-case experimental data.* Educational Psychology & Methodology. **Chair.**

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

Elizabeth Ann S. Kelly (proposal in progress). *Trends in International Mathematics and Science Study: Variation in Demographic Prediction of Girls' Math Achievement.* **Chair.**

Emily Woofenden (proposal in progress). *The influence of explicit instruction in sentence-combining strategies on the quality of writing and sentence structures in upper elementary school writing for students with learning disabilities*. Educational Psychology & Methodology. **Member**.

Andrea Gardner-Bixler (proposal in progress). *A single-case, multiple baseline across participant pairs to examine the effectiveness of Lego therapy on the social interaction of siblings with ASD (siblings with autism) and TD (typically developing) siblings*. Educational Psychology & Methodology. **Member**.

Halley Eacker (proposal in progress). *Use of strategy instruction to improve story writing using a single-case design: multiple-baseline across three Skills*. Educational Psychology & Methodology. **Member**.

Diana Akhmedjanova (2019). *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

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-present

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

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

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

MultiSCED Webinar, University of Groningen, 2019.

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