

OKAN BULUT

CONTACT INFORMATION	<p>University of Alberta 6-110 Education Centre North 11210 87 Ave Edmonton, AB T6G 2G5 CANADA Tel: (780) 492-3668 Fax: (780) 492-1318 E-mail: bulut@ualberta.ca Website: www.okanbulut.com</p>
EDUCATION	<p>University of Minnesota, Minneapolis, MN, USA</p> <p>Ph.D., Educational Psychology - Quantitative Methods in Education, May 2013</p> <p>M.A., Educational Psychology - Quantitative Methods in Education, January 2010</p> <p>Adnan Menderes University, Aydin, TURKEY</p> <p>B.A., Elementary Education, June 2006</p>
ACADEMIC POSITIONS	<p>Associate Professor July 2018 to now University of Alberta (Edmonton, AB) Department of Educational Psychology Program: Measurement, Evaluation, and Data Science (MEDS)</p> <p>Assistant Professor September 2014 to June 2018 University of Alberta (Edmonton, AB) Department of Educational Psychology Program: Measurement, Evaluation, and Data Science (MEDS)</p>
NON-ACADEMIC POSITIONS	<p>Psychometrician May 2013 to October 2014 American Institutes for Research (Washington, DC) Assessment Program Project: Statewide Alternate Assessments for Students with Disabilities</p> <p>Research Fellow September 2012 to May 2013 Pearson Assessments (Bloomington, MN) Clinical Assessments Project: Technical Evaluation of Behavioral and Intelligence Tests</p> <p>Graduate Research Assistant May 2011 to August 2012 National Center on Educational Outcomes (Minneapolis, MN) Institute on Community Integration at the University of Minnesota Project: Improving the Validity of Assessment Results for English Language Learners with Disabilities</p> <p>Psychometrics Intern June 2010 to August 2010 Data Recognition Corporation (Minneapolis, MN) Project: Nebraska State Assessments</p>

RESEARCH INTERESTS	Educational data mining, computerized and digital assessments, psycho-educational assessments, and statistical programming using the R programming language
TEACHING EXPERIENCE	<ul style="list-style-type: none"> ● Instructor and course developer, <i>Analyzing Survey Data with R</i> (Pluralsight) ● Instructor and course developer, <i>Reshaping Data with R</i> (Pluralsight) ● Instructor and course developer, <i>Measurement Theory II</i> (U of Alberta) ● Instructor and course developer, <i>Survey Design & Implementation</i> (U of Alberta) ● Instructor, <i>Educational Assessment</i> (U of Alberta) ● Instructor, <i>Measurement Theory I</i> (U of Alberta) ● Instructor, <i>Quantitative Methods II</i> (U of Alberta) ● Instructor, <i>Introduction to Data Analysis in Educational Research</i> (U of Alberta)
CURRENT RESEARCH GRANTS	<p>Providing Students with a Voice: A Measure of Students' Socio-Emotional Well-Being to Optimize Learning for All Students</p> <ul style="list-style-type: none"> ● Role: Principal Investigator ● Grant Title: Research Partnership Grant ● Funding Source: Alberta Education ● Awarded amount: \$45,123 (2019-2021) <p>Improving the Quality and Quantity of Feedback via Interactive Score Reporting</p> <ul style="list-style-type: none"> ● Role: Principal Investigator ● Grant Title: Teaching and Learning Enhancement Fund (TLEF) ● Funding Source: University of Alberta ● Awarded amount: \$62,521 (2018-2020) <p>Integrating Theory and Practice to Enhance Inclusive Education in an Undergraduate Teacher Program</p> <ul style="list-style-type: none"> ● Role: Co-Investigator ● Grant Title: Alberta Education Conditional Grant Funding ● Funding Source: Alberta Education ● Awarded amount: \$49,276 (2018-2020)
PREVIOUS RESEARCH GRANTS	<p>Developing an Interactive Score Reporting System to Improve the Quality of Formative Feedback in Higher Education</p> <ul style="list-style-type: none"> ● Role: Principal Investigator ● Grant Title: Insight Development Grant ● Funding Source: Social Sciences and Humanities Research Council of Canada ● Awarded amount: \$59,994 (2016-2019) <p>Effect of Detailed Score Reporting on Student Learning</p> <ul style="list-style-type: none"> ● Role: Co-Investigator ● Grant Title: Teaching and Learning Enhancement Fund (TLEF) ● Funding Source: University of Alberta ● Awarded amount: \$59,171 (2017-2019)

Examining the Measurement Properties of What Albertans Know about Fetal Alcohol Spectrum Disorders Survey

- **Role:** Principal Investigator
- **Grant Title:** SAGE Secondary Data Use Grant
- **Funding Source:** PolicyWise for Children & Families
- **Awarded amount:** \$5,000 (2018-2019)

Trajectories in Student Mathematics Performance

- **Role:** Research Partner
- **Grant Title:** The Research Partnership Program
- **Funding Source:** Alberta Education
- **Awarded amount:** \$24,100 (2017-2018)

Improving Instructors' Understanding of Universal Student Ratings of Instruction (USRI) at the Faculty of Education: A Pilot Study

- **Role:** Principal Investigator
- **Grant Title:** Support for the Advancement of Scholarship (SAS) Grant
- **Funding Source:** University of Alberta
- **Awarded amount:** \$6,807 (2017-2018)

Understanding Nonresponse Behaviours of Special Education Students in Reading and Mathematics Assessments Using Cognitive Diagnostic Modelling

- **Role:** Principal Investigator
- **Grant Title:** Support for the Advancement of Scholarship (SAS) Grant
- **Funding Source:** University of Alberta
- **Awarded amount:** \$6,384 (2015-2016)

TRAVEL &
PROFESSIONAL
DEVELOPMENT
GRANTS

Teaching and Learning Enhancement Fund

- **Funding Source:** University of Alberta
- **Awarded amount:** \$2,860 (2018-2019)

Killam Research Fund – Cornerstones Grant Program

- **Funding Source:** University of Alberta
- **Awarded amount:** \$4,200 (2017-2018)

Support for the Advancement of Scholarship (SAS) Travel Grant

- **Funding Source:** University of Alberta
- **Awarded amount:** \$1,200 (2015-2016)

AWARDS

- Coutts-Clarke Fellowship by University of Alberta 2021 to 2022
- Distinguished Paper Award by AERA 2017 to 2018
- Alicia Cascallar Outstanding Paper Award by NCME 2015 to 2016
- John P. Yackel/Pearson Assessment Graduate Fellowship 2012 to 2013
- Research Grant from Applied Psychological Measurement, Inc. 2012 to 2013
- Mary Corcoran Graduate Fellowship at the University of Minnesota 2011 to 2012
- Graduate Scholarship from the Turkish Ministry of National Education 2007 to 2009

BOOKS

- [1] **Bulut, O.** (2020). *Conducting Monte Carlo simulations in R*. University of Alberta Education and Research Archive. doi:10.7939/r3-y066-fs55
- [2] Desjardins, C. D., & **Bulut, O.** (2018). *Handbook of educational measurement and psychometrics using R*. Boca Raton, FL: CRC Press.

BOOK CHAPTERS

- [1] **Bulut, O.**, & Cui, Y. (In press). Validating the findings of a survey research study. In U. Luhanga & A. G. Harbaugh (Eds.), *Basic elements of survey research in education: Addressing the problems your advisor never told you about*. Charlotte, NC: Information Age Publishing.
- [2] Gierl, M. J., **Bulut, O.**, & Zhang, X. (2018). Using computerized formative testing to support personalized learning in higher education: An application of two assessment technologies. In R. Zheng (Ed.), *Digital technologies and instructional design for personalized learning* (pp. 99-119). Hershey, PA: IGI Global.

REFEREED
JOURNAL
ARTICLES

- [1] Brown, G. T. L., Alqassab, M., **Bulut, O.**, & Xiao, J. (In press). Item impact as the source of differential item functioning in small samples: Evaluation with MIMIC-PA and MIMIC-interaction approaches. *Psychological Test and Assessment Modeling*.
- [2] **Bulut, O.**, Cormier, D. C., & Shin, J. (2020). An intelligent recommender system for personalized test administration scheduling with computerized formative assessments. *Frontiers in Education*, 5, 1-11. doi:10.3389/educ.2020.572612
- [3] **Bulut, O.**, Cutumisu, M., Sing, D., & Aquilina, A. M. (2020). Guidelines for generating effective feedback from e-assessments. *Hacettepe University Journal of Education*, 35(Special Issue), 60-72. doi:10.16986/HUJE.2020063705.
- [4] **Bulut, O.**, Xiao, J., Rodriguez, M. C., & Gorgun, G. (2020). An empirical investigation of factors contributing to item nonresponse in self-reported bullying instruments. *Journal of School Violence*. Advance online publication. doi:10.1080/15388220.2020.1770603
- [5] **Bulut, O.**, & Desjardins, C. D. (2020). Profile analysis of multivariate data: A brief introduction to the profileR package. doi:10.31234/osf.io/sgy8m
- [6] **Bulut, O.** (2020). Test review of the Young Children's Achievement Test-Second Edition. In J. F. Carlson, K. F. Geisinger, & J. L. Jonson (Eds.), *The twenty-first mental measurements yearbook*. Lincoln, NE: Buros Center for Testing.
- [7] Georgiou, G. K., **Bulut, O.**, Dunn, K., Naglieri, J., & Das, J.P. (2020). Examining the relation between PASS cognitive processes and superior reading and mathematics performance. *Psychology in the Schools*. Advanced online publication. doi:10.1002/pits.22442
- [8] Violato, E., King, S., & **Bulut, O.** (2020). A multi-method exploratory study of health professional students' experiences with compliance behaviours. *BMC Medical Education*, 20(359), 1-10. doi:10.21203/rs.3.rs-37019/v3
- [9] Flanagan, A., Cormier, D. C., & **Bulut, O.** (2020). Teachers' expectations vary: Social implications for students of different ethnic groups. *Social Psychology of Education*, 23(6), 1429-1448. doi:10.1007/s11218-020-09590-y
- [10] St-Amand, J., Bowen, F., **Bulut, O.**, Cormier, D. C., Girard, S., & Janosz, M. (2020). Le sentiment d'appartenance à l'école : Validation d'un modèle théorique prédisant l'engagement et le rendement en mathématiques d'élèves du secondaire. *Teachers & Teaching: International Journal in Education*, 28(2), 89-105. doi:10.18162/fp.2020.530.
- [11] Desjardins, C. D., & **Bulut, O.** (2020). profileR: An R package for profile analysis. *The Journal of Open Source Software*, 5(47), 1941. doi:10.21105/joss.01941

- [12] Kendeou, P., McMaster, K., Butterfuss, R., Kim, J., Slater, S., & **Bulut, O.** (2020). Development and validation of the Minnesota Inference Assessment. *Assessment for Effective Intervention*. Advance online publication. doi:10.1177/1534508420937781
- [13] El Hassar, B., Poth, C., Gokiart, R., & **Bulut, O.** (2020). Toward an evidence-based approach to building evaluation capacity. *The Canadian Journal of Program Evaluation*. Advanced online publication. doi:10.3138/cjpe.69191
- [14] Xiao, J., & **Bulut, O.** (2020). Evaluating the performances of missing data handling methods in ability estimation from sparse data. *Educational and Psychological Measurement*. Advance online publication. doi:10.1177/0013164420911136
- [15] Liou, P.-Y., & **Bulut, O.** (2020). The effects of item format and cognitive domain on students' science performance in TIMSS 2011. *Research in Science Education*, 50(1), 99-121. doi:10.1007/s11165-017-9682-7
- [16] Shin, J., **Bulut, O.**, & Gierl, M. J. (2020). The effect of the most attractive distractor location on multiple-choice item difficulty. *Journal of Experimental Education*, 88(4), 643-659. doi:10.1080/00220973.2019.1629577.
- [17] Shin, J., **Bulut, O.**, & Gierl, M. J. (2020). Development practices of trusted AI systems among Canadian data scientists. *International Review for Information Ethics*, 28, 1-10.
- [18] **Bulut, O.**, & Yavuz, H. C. (2019). Educational data mining: A tutorial for the rattle package in R. *International Journal of Assessment Tools in Education*, 6(5), 20-36. doi:10.21449/ijate.627361
- [19] **Bulut, O.**, Cutumisu, M., Aquilina, A. M., & Singh, D. (2019). Effects of digital score reporting and feedback on students' learning in higher education. *Frontiers in Education*, 4(65), 1-16. doi:10.3389/feduc.2019.00065
- [20] Daniels, L. M., & **Bulut, O.** (2019). Students' perceived usefulness of computerized percentage-only vs. descriptive score reports: Associations with motivation and grades. *Journal of Computer Assisted Learning*, 36(2), 199-208. doi:10.1111/jcal.12398
- [21] Chen, F., Yang, H., **Bulut, O.**, Cui, Y., & Xin, T. (2019). Examining the relation of personality factors to substance use disorder by explanatory item response modeling of DSM-5 symptoms. *PLoS ONE*, 14(6), 1-17. doi:10.1371/journal.pone.0217630
- [22] Stanke, L., & **Bulut, O.** (2019). Explanatory item response models for polytomous item responses. *International Journal of Assessment Tools in Education*, 6(2), 259-278. doi:10.21449/ijate.515085
- [23] Celik, H., & **Bulut, O.** (2019). Examining Turkish adults' recalled experiences of their father's presence. *Journal of Family Issues*, 40(9), 1224-1251. doi:10.1177/0192513X19835879
- [24] Cormier, D. C., Van Norman, E. R., Cheong, C., Kennedy, K. E., **Bulut, O.**, & Mrazik, M. (2019). Mastering standardized cognitive assessment scoring procedures: How much is enough? *Canadian Journal of School Psychology*, 34(3), 215-233. doi:10.1177/0829573518765010
- [25] **Bulut, O.**, & Cormier, D. C. (2018). Validity evidence for progress monitoring with Star Reading: Slope estimates, administration frequency, and number of data points. *Frontiers in Education*, 3(68), 1-12. doi:10.3389/feduc.2018.00068
- [26] **Bulut, O.**, Lei, M., & Guo, Q. (2018). Item and testlet position effects in computer-based alternate assessments for students with disabilities. *International Journal of Research & Method in Education*, 42(1), 169-183. doi:10.1080/1743727X.2016.1262341

- [27] **Bulut, O.**, & Cutumisu, M. (2018). When technology does not add up: ICT use negatively predicts mathematics and science achievement for Finnish and Turkish students in PISA 2012. *Journal of Educational Multimedia and Hypermedia*, 27(1), 25-42.
- [28] Kan, A., **Bulut, O.**, & Cormier, D. C. (2018). The impact of item stem format on the dimensional structure of mathematics assessments. *Educational Assessment*, 24(1), 13-32. doi:10.1080/10627197.2018.1545569
- [29] Arce-Ferrer, A. & **Bulut, O.** (2018). Effects of data collection designs in the comparison of computer-based and paper-based tests. *Journal of Experimental Education*, 87(4), 661-679. doi:10.1080/00220973.2018.1507986
- [30] Korukcu, O., **Bulut, O.**, & Kukulcu, K. (2018). From experiences to expectations: A quantitative study on the fear of childbirth among multigravida women. *Archives of Psychiatric Nursing*. Advance online publication. doi:10.1016/j.apnu.2018.11.002
- [31] Liu, R., Huggins-Manley, & **Bulut, O.** (2018). Retrofitting diagnostic classification models to responses from IRT-based assessment forms. *Educational and Psychological Measurement*, 78(3), 357-383. doi:10.1177/0013164416685599
- [32] McCabe, E., Gross, D. P., & **Bulut, O.**, (2018). Procedures to develop a computerized adaptive test to assess patient-reported physical functioning. *Quality of Life Research*, 27(9), 2393-2402. doi:10.1007/s11136-018-1898-0
- [33] Cormier, D. C., **Bulut, O.**, Singh, D., Kennedy, K. E., Wang, K., Heudes, A., & Lewka, A. J. (2018). A systematic examination of the linguistic demand of cognitive test directions administered to school-Age populations. *Journal of Psychoeducational Assessment*, 36(4), 337-353. doi:10.1177/0734282916678336
- [34] **Bulut, O.**, Davison, M. L., & Rodriguez, M. C. (2017). Estimating between-person and within-person subscore reliability with profile analysis. *Multivariate Behavioral Research*, 52(1), 86-104. doi:10.1080/00273171.2016.1253452
- [35] **Bulut, O.**, & Suh, Y. (2017). Detecting DIF in multidimensional assessments with the MIMIC model, the IRT likelihood ratio test, and logistic regression. *Frontiers in Education*, 2(51), 1-14. doi:10.3389/educ.2017.00051
- [36] **Bulut, O.**, & Sunbul, O. (2017). Monte Carlo simulation studies in item response theory with the R programming language. *Journal of Measurement and Evaluation in Education and Psychology*, 8(3), 266-287. doi:10.21031/epod.305821
- [37] **Bulut, O.**, Guo, Q. & Gierl, M. J. (2017). A structural equation modeling approach for examining position effects in large-scale assessments. *Large-Scale Assessments in Education*, 5(8), 1-20. doi:10.1186/s40536-017-0042-x
- [38] Cutumisu, M., & **Bulut, O.** (2017). Problem-solving attitudes and gender as predictors of academic achievement in mathematics and science for Canadian and Finnish students in the PISA 2012 assessment. *Journal of Educational Multimedia and Hypermedia*, 26(4), 325-342.
- [39] Cormier, D. C., **Bulut, O.**, McGrew, K. S., & Singh, D. (2017). Exploring the effects of Cattell-Horn-Carroll (CHC) cognitive abilities underlying mathematics achievement. *Applied Cognitive Psychology*, 31(5), 530-538 doi:10.1002/acp.3350
- [40] Gierl, M. J., **Bulut, O.**, Guo, Q., & Zhang, X. (2017). Developing, analyzing, and using distractors for multiple-choice testing: A comprehensive review. *Review of Educational Research*, 87(6), 1082-1116. doi:10.3102/0034654317726529

- [41] Lee, S., **Bulut, O.**, & Suh, Y. (2017). Multidimensional extension of Multiple Indicators Multiple Causes models to detect DIF. *Educational and Psychological Measurement*, 77(4), 545-569. doi:10.1177/0013164416651116
- [42] Arce-Ferrer, A. J., & **Bulut, O.** (2017). Separate and concurrent anchor purification-scale transformation approaches in the 3PL IRT equating. *International Journal of Testing*, 17(1), 1-22. doi:10.1080/15305058.2016.1227825
- [43] Bellibas, M. S., **Bulut, O.**, & Gedikli, S. (2017). Investigating professional learning communities in Turkish schools: The effects of contextual factors. *Professional Development in Education*, 43(3), 353-374. doi:10.1080/19415257.2016.1182937
- [44] Yaylaci, T., Cicchetti, D., Rogosch, F. A., **Bulut, O.**, & Hetzel, S. R. (2017). The interactive effects of child maltreatment and the FK506 binding protein 5 gene (FKBP5) on dissociative symptoms in adolescence. *Development and Psychopathology*, 29(3), 1105-1117. doi:10.1080/15305058.2016.1227825
- [45] Cormier, D. C., McGrew, K. S., **Bulut, O.**, & Funamoto, A. (2016). Revisiting the relations between the WJ IV measures of Cattell-Horn-Carroll (CHC) cognitive abilities and reading achievement during the school-age years. *Journal of Psychoeducational Assessment*, 35(8), 731-754. doi:10.1177/0734282916659208
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- [51] Bellibas, M. S., **Bulut, O.**, Hallinger, P., & Wang, W. C. (2016). Validating an instructional leadership profile of Turkish primary school principals with the PIMRS. *International Journal of Educational Research*, 75, 115-133.
- [52] **Bulut, O.** (2015). Applying item response theory models to Entrance Examination for Graduate Studies: Practical issues and insights. *Journal of Measurement and Evaluation in Education and Psychology*, 6(2), 313-330.
- [53] **Bulut, O.** (2015). An empirical analysis of gender-based DIF due to test booklet effect. *European Journal of Research on Education*, 3(1),7-16.
- [54] **Bulut, O.**, Palma, J., Rodriguez, M. C., & Stanke, L. (2015). Evaluating measurement invariance in the measurement of developmental assets in Latino English language groups across developmental stages. *Sage Open*, 5(2), 1-18.
- [55] Kan, A., & **Bulut, O.** (2015). Examining the language factor in mathematics assessments. *Journal of Education and Human Development*, 4(1), 133-146.

- [56] Kan, A., & **Bulut, O.** (2014). Crossed random-effect modeling: Examining the effects of teacher experience and rubric use in performance assessments. *Eurasian Journal of Educational Research*, 57, 1-28.
- [57] Kan, A., & **Bulut, O.** (2014). Examining the relationship between gender DIF and language complexity in mathematics assessments. *International Journal of Testing*, 14(3), 245-264.
- [58] Korukcu, O., **Bulut, O.**, Bayram, Z., Tuzcu, A., & Turkmen, H. O. (2014). An adaptation of Leymann Inventory of Psychological Terror to health sciences programs in Turkey. *Anatolian Journal of Psychiatry*, 15(4), 335-343.
- [59] Gumus, S., **Bulut, O.**, & Bellibas, M. S. (2013). The relationship between principal leadership and teacher collaboration in Turkish primary schools: A multilevel analysis. *Education Research and Perspectives*, 40, 1-29.
- [60] **Bulut, O.**, & Kan, A. (2012). Application of computerized adaptive testing to Entrance Examination for Graduate Studies in Turkey. *Eurasian Journal of Educational Research*, 49, 61-80.
- [61] **Bulut, O.**, Delen, E., & Kaya, F. (2012). An SEM model based on PISA 2009 in Turkey: How does the use of technology and self-regulation activities predict reading scores? *Procedia - Social and Behavioral Sciences*, 64, 564-573.
- [62] Kaya, F., Delen, E., & **Bulut, O.** (2012). Test review: Shipley-2 manual. *Journal of Psychoeducational Assessment*, 30(6), 593-597.
- [63] Delen, E., & **Bulut, O.** (2011). The relationship between students' exposure to technology and their achievement in science and math. *TOJET: The Turkish Online Journal of Educational Technology*, 10(3), 311-317.

CONFERENCE
PUBLICATIONS

- [1] **Bulut, O.**, & Cutumisu, M. (2017). When technology does not add up: ICT use negatively predicts mathematics and science achievement for Finnish and Turkish students in PISA 2012. In J. Johnston (Ed.), *Proceedings of EdMedia: World Conference on Educational Media and Technology 2017* (pp. 935-945). Waynesville, NC: Association for the Advancement of Computing in Education (AACE).
- [2] Cutumisu, M., & **Bulut, O.** (2017). Problem-solving attitudes and gender as predictors of academic achievement in mathematics and science for Canadian and Finnish students in the PISA 2012 assessment. In J. Johnston (Ed.), *Proceedings of EdMedia: World Conference on Educational Media and Technology 2017* (pp. 728-738). Waynesville, NC: Association for the Advancement of Computing in Education (AACE).
- [3] Delen, E., & **Bulut, O.** (2011). The relationship between students' exposure to technology and their achievement in science and math. *Proceedings of the 12th International Educational Technology Conference - IETC*, (pp. 1171-1176), Sakarya, Turkey.

TECHNICAL
REPORTS

- [1] **Bulut, O.**, Seitz, P., Deforge, K., Chu, M.-W., Hachem, M., & Gorgun, G. (2020). Measuring students' socio-emotional well-being to optimize learning: Looking beyond academic performance and grades. Edmonton, AB: Alberta Education. doi:10.7939/r3-jkvz-qt28
- [2] **Bulut, O.**, & Cormier, D. C. (2019). *Advanced screening approaches with Star Assessments*. Wisconsin Rapids, WI: Renaissance Learning Inc.
- [3] **Bulut, O.**, & Cormier, D. C. (2016). *Developing psychometrically sound decision rules for STAR Math*. Wisconsin Rapids, WI: Renaissance Learning Inc.
- [4] Cormier, D. C., & **Bulut, O.** (2016). *Developing psychometrically sound decision rules for STAR Reading*. Wisconsin Rapids, WI: Renaissance Learning Inc.

COMPUTER
SOFTWARE

- [1] **Bulut, O.** (2020). *eirm: Explanatory item response modeling for dichotomous and polytomous item responses*. Available from <http://CRAN.R-project.org/package=eirm>.
- [2] **Bulut, O.**, & Desjardins, C. D. (2018). *profileR: Profile analysis of multivariate data in R* (version 0.3-5). Available from <http://CRAN.R-project.org/package=profileR>.
- [3] Desjardins, C. D., & **Bulut, O.** (2018). *hemp: Handbook of educational measurement and psychometrics using R companion package*. Available from <https://github.com/cddesja/hemp>.

CONFERENCE
PRESENTATIONS &
POSTERS

- [1] **Bulut, O.**, & Lee, S. (2020, April). *Early detection of high school dropout: A deep learning approach with Keras*. Paper submitted to the annual meeting of the National Council on Measurement in Education, San Francisco, CA [Conference canceled due to COVID-19].
- [2] Cormier, D. C., **Bulut, O.**, & Stickney, E. (2020, April). *Using machine learning approaches to optimize screening for mathematics difficulties*. Paper submitted to the annual meeting of the National Council on Measurement in Education, San Francisco, CA [Conference canceled due to COVID-19].
- [3] Lu, C., **Bulut, O.**, Epp, C. D., & Gierl, M. J. (2020, April). *Identifying online learning behaviors using log data from learning management systems*. Paper submitted to the annual meeting of the National Council on Measurement in Education, San Francisco, CA [Conference canceled due to COVID-19].
- [4] Shin, J., Chen, F., Lu, C., & **Bulut, O.** (2020, April). *Automating test administration decisions in computerized formative assessment*. Paper submitted to the annual meeting of the National Council on Measurement in Education, San Francisco, CA [Conference canceled due to COVID-19].
- [5] Gao, Y., Erbasli, S. N. Y., & **Bulut, O.** (2020, April). *Comparison of the performance of feature selection methods in predicting bullying behaviors*. Paper submitted to the annual meeting of the National Council on Measurement in Education, San Francisco, CA [Conference canceled due to COVID-19].
- [6] Kim, J., **Bulut, O.**, McMaster, K. L., & Kendeou, P. (2020, April) *Development and initial validation of the Minnesota Inference Assessment* [Poster Session]. Poster submitted to the annual meeting of the American Educational Research Association, San Francisco, CA. <http://tinyurl.com/rl4kc7r> [Conference canceled due to COVID-19]
- [7] Rinaldi, C. M., **Bulut, O.**, Walker, M., & Beeby, A. M. (2020, May). *The stability of parenting in early childhood*. Poster submitted to the annual convention of the Canadian Psychological Association, Montreal, QC. [Conference canceled due to COVID-19]
- [8] Rinaldi, C. M., Muth, T., **Bulut, O.**, & Di Stasio, M. (2020, May). *Parenting influences on bullying in adolescence*. Poster submitted to the annual convention of the Canadian Psychological Association, Montreal, QC. [Conference canceled due to COVID-19]
- [9] Kennedy, K. E., & **Bulut, O.** (2020, May). *Examining the measurement properties of the 2017 What Albertans Know about Fetal Alcohol Spectrum Disorders Survey*. Paper submitted to the annual convention of the Canadian Psychological Association, Montreal, QC. [Conference canceled due to COVID-19]
- [10] Parilla, R., Wijayathilake, M., **Bulut, O.**, & Nag, S. (2019, July). *Impact of symbol and child characteristics on Akshara recognition*. Poster presented at the annual meeting of Society for the Scientific Study of Reading, Toronto, ON, Canada.
- [11] Xiao, J., & **Bulut, O.** (2019, June). *The performance of missing data imputation methods to estimate ability parameters*. Paper presented at the annual meeting of the Canadian Society for the Study of Education, Vancouver, BC, Canada.

- [12] Shin, J., **Bulut, O.**, & Gierl, M. J. (2019, May). *Development practices of trusted AI systems among Canadian data scientists*. Paper presented at the AI, Ethics and Society Conference, Edmonton, AB, Canada.
- [13] McCabe, E., Gross, D. P., & **Bulut, O.** (2019, May). *Development of a computerized adaptive test to assess patient-reported physical functioning*. Paper presented at the World Confederation for Physical Therapy Congress, Geneva, Switzerland.
- [14] Georgiou, G. K., **Bulut, O.**, & Dunn, K. (2019, April). *A neurocognitive approach to the identification of superior readers and mathematicians*. Poster presented at the annual Joseph R. Royce Psychology Research Conference, Edmonton, AB, Canada.
- [15] Odell, B., Galovan, A., **Bulut, O.**, & Cutumisu, M. (2019, April). *Using novel structural equation models to explore the effect of technology on mathematics for students in the Program for International Student Assessment 2015*. Paper presented at the annual meeting of the American Educational Research Association, Toronto, ON, Canada.
- [16] **Bulut, O.**, Celik, H., & Lei, M. (2019, April). *Understanding response processes in noncognitive measures with explanatory item response modeling*. Paper presented at the annual meeting of the National Council on Measurement in Education, Toronto, ON, Canada. Download
- [17] **Bulut, O.**, & Cutumisu, M. (2019, April). ExamVis: A score reporting system for visual communication of test results. In O. Bulut (Chair), *Communicating assessment results: How to inform decision-making in education*. Paper presented at the annual meeting of the National Council on Measurement in Education, Toronto, ON, Canada.
- [18] Daniels, L. M., **Bulut, O.**, & Gierl, M. J. (2019, April). Immediate score reporting: Pausing to consider the motivational and emotional consequences for students. In O. Bulut (Chair), *Communicating assessment results: How to inform decision-making in education*. Paper presented at the annual meeting of the National Council on Measurement in Education, Toronto, ON, Canada.
- [19] Cetin-Berber, D. D., **Bulut, O.**, & Huggins-Manley, A. C. (2019, April). *Nominal response model to address missingness in multistage adaptive testing*. Poster presented at the annual meeting of the National Council on Measurement in Education, Toronto, ON, Canada.
- [20] Xiao, J., **Bulut, O.**, & Rodriguez, M. C. (2019, April). *Nonresponse issue in noncognitive measures: Validity approach using explanatory item response modeling*. Paper presented at the annual meeting of the National Council on Measurement in Education, Toronto, ON, Canada. Download
- [21] Xiao, J., & **Bulut, O.** (2019, April). *The performance of recursive partitioning methods for dealing with missing responses*. Poster presented at the annual meeting of the National Council on Measurement in Education, Toronto, ON, Canada.
- [22] Lu, C., & **Bulut, O.** (2019, April). *Does valuing collaboration lead to greater success in collaborative problem solving?* Paper presented at the annual meeting of the National Council on Measurement in Education, Toronto, ON, Canada.
- [23] Ortiz, S., Daniels, V. J., Lai, H., Yoon, M., **Bulut, O.**, & Hillier, T. (2019, April). *Effect of detailed OSCE score reporting on student learning*. Paper presented at the Canadian Conference on Medical Education, Niagara Falls, ON, Canada.
- [24] Wagner, K., Kendeou, P., McMaster, K. L., & **Bulut, O.** (2019, April). *Development of a technology-based tool for assessing inference making in young children*. Paper presented at the 2019 annual meeting of American Educational Research Association, Toronto, ON, Canada.

- [25] Wagner, K., Kendeou, P., McMaster, K., & **Bulut, O.** (2019, February). *Creating a technology-based assessment of early inferencing*. Poster presented at the Pacific Coast Research Conference, San Diego, CA.
- [26] Büyükkıdık, S., Bakırarar, B., & **Bulut, O.** (2018, September). *Comparing the performance of data mining methods in classifying successful students with scientific literacy in PISA 2015*. Paper presented at the International Congress on Measurement and Evaluation in Education and Psychology, Prizren, Kosovo.
- [27] **Bulut, O.**, Aquilina, A., & Singh, D. (2018, July). *An interactive score reporting system for improving the quality of formative feedback*. Paper presented at the International Testing Commission Conference, Montreal, QC, Canada.
- [28] **Bulut, O.**, Cutumisu, M., Singh, D., & Aquilina, A. (2018, July). *Guidelines for generating effective feedback from computer-based assessments*. Paper presented at the International Testing Commission Conference, Montreal, QC, Canada.
- [29] Yavuz, H. C., **Bulut, O.**, Ilgun Dibek, M., & Sahin Kursad, M. (2018, July). *Providing revision opportunities in alternate assessments: An application of sequential IRT*. Paper presented at the International Testing Commission Conference, Montreal, QC, Canada.
- [30] Ilgun Dibek, M., **Bulut, O.**, Sahin Kursad, M., & Yavuz, H. C. (2018, July). *Should students with disabilities have multiple opportunities in answering items?* Paper presented at the International Testing Commission Conference, Montreal, QC, Canada.
- [31] Flanagan, A., Cormier, D. C., & **Bulut, O.** (2018, June). *Teachers' expectations matter: Implications for Canadian students of different ethnic groups*. Paper presented at the International Congress of Applied Psychology (ICAP), Montreal, QC, Canada.
- [32] Flanagan, A., Cormier, D. C., **Bulut, O.**, & Antoniuk, A. (2018, June). *Tis the season to regress academically? Winter seasonal effects on academic achievement*. Paper presented at the International Congress of Applied Psychology (ICAP), Montreal, QC, Canada.
- [33] Aquilina, A., **Bulut, O.**, & Cormier, D. C. (2018, June). *An examination of child and adolescent sex differences within general and broad CHC cognitive abilities*. Poster presented at the International Congress of Applied Psychology (ICAP), Montreal, QC, Canada.
- [34] Kennedy, K. E., Cormier, D. C., Pei, J., Mattson, D., **Bulut, O.**, & Rasmussen, C. (2018, June). *Understanding challenges to progress monitoring: Key findings from the Mathematics Interactive Learning Experience (MILE)*. Paper presented at the International Congress of Applied Psychology (ICAP), Montreal, QC, Canada.
- [35] Gierl, M. J., **Bulut, O.**, Guo, Q., & Zhang, X. (2018, April). *Developing, analyzing, and using distractors for multiple-choice medical testing: A comprehensive review*. Paper presented at the Canadian Conference on Medical Education (CCME), Halifax, NS, Canada.
- [36] **Bulut, O.** (2018, April). *Cultural and historic influences on national assessment and accountability systems*. Invited talk to be given at the annual meeting of the American Educational Research Association, New York, NY.
- [37] Shin, J., **Bulut, O.**, & Gierl, M. J. (2018, April). *Examining the effect of best distractor location on item difficulty*. Paper to be presented at the annual meeting of the National Council on Measurement in Education, New York, NY.

- [38] Lei, M., **Bulut, O.**, & Jang, H. (2018, April). *Detecting multidimensional differential item functioning*. Paper to be presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- [39] Rodriguez, M. C., **Bulut, O.**, Cabrera, J., & Vue, K. (2018, April). *Response processes in noncognitive measures: Validity evidence from explanatory item response modeling*. Paper to be presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- [40] Zamora, J. R. P., **Bulut, O.**, Cabrera, J., & Kang, Y. (2018, April). *Measurement invariance in noncognitive measures: Validity approach using explanatory item response modeling*. Paper to be presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- [41] McCabe, E., Gross, D. P., & **Bulut, O.** (2017, August). *Developing computerized adaptive tests to improve the efficiency of patient-reported outcome assessment: Clinically feasible procedures*. Poster presented at the 2017 Spotlight on Research Breakfast and Symposium. Glenrose Rehabilitation Hospital & University of Alberta. Edmonton, Canada.
- [42] **Bulut, O.**, & Cormier, D. C. (2017, August). *A large-scale progress monitoring application with computerized adaptive testing*. Paper presented at the International Association for Computerized Adaptive Testing (IACAT) Conference, Niigata, Japan.
- [43] Gierl, M. J. & **Bulut, O.** (2017, August). *Generating rationales to support formative feedback in adaptive testing*. Paper presented at the International Association for Computerized Adaptive Testing (IACAT) Conference, Niigata, Japan.
- [44] **Bulut, O.**, & Cutumisu, M. (2017, June). *When technology does not add up: ICT use negatively predicts mathematics and science achievement for Finnish and Turkish students in PISA 2012*. Paper presented at the EdMedia 2017 - World Conference on Educational Media & Technology, Washington, DC.
- [45] Cutumisu, M., & **Bulut, O.** (2017, June). *Problem-solving attitudes and gender as predictors of academic achievement in mathematics and science for Canadian and Finnish students in PISA 2012*. Paper presented at the EdMedia 2017 - World Conference on Educational Media & Technology, Washington, DC.
- [46] **Bulut, O.**, Gierl, M. J., Guo, Q., & Zhang, X. (2017, April). *The Achilles' heel of multiple-choice items: Distractors*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- [47] Lei, M., Jang, H., & **Bulut, O.** (2017, April). *Detecting multidimensional differential item functioning*. In *Psychometric issues in multidimensional IRT*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- [48] Tang, W., Guo, Q., & **Bulut, O.** (2017, April). *Using structural equation modeling to examine position effects in 2PL IRT model*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- [49] Liu, R., Huggins-Manley, A.C., & **Bulut, O.** (2017, April). *Retrofitting v.s. developing assessments for diagnostic purposes: two lessons learned*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- [50] Liu, R., Huggins-Manley, A.C., & **Bulut, O.** (2017, April). *Retrofitting diagnostic classification models to responses from IRT-based assessment forms*. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX. ¹

¹This paper was awarded the 2017 Distinguished Paper Award by AERA.

- [51] Nickodem, K., Van Boekel, M., Vue, K., Rodriguez, M. C., **Bulut, O.**, Zamora, J. R. P., Kang, Y., & Jang, K. (2017, April). *Investigating the role of support in athletes' and non-athletes' academic achievement: An SEM approach*. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX.
- [52] Kang, Y., Van Boekel, M., **Bulut, O.**, Nickodem, K., Zamora, J. R. P., Vue, K., Jang, K., & Rodriguez, M. C. (2017, April). *Interaction among gender, race/ethnicity, and school sports participation in youth development*. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX.
- [53] Liu, R., Huggins-Manley, A.C., & **Bulut, O.** (2016, November). *Retrofitting diagnostic classification models to responses from IRT-based assessment forms*. Paper presented at the annual meeting of the Florida Educational Research Association, Lakeland, FL.
- [54] **Bulut, O.** (2016, July). *Criterion-related validity of subscores in high school diploma examinations*. In *Continuous testing: Psychometric challenges and opportunities*. Paper presented at the International Test Commission Conference, Vancouver, BC, Canada.
- [55] **Bulut, O.**, Guo, Q., & Gierl, M. J. (2016, July). *Examining position effects in large-scale assessments using an SEM approach*. Paper presented at the International Test Commission Conference, Vancouver, BC, Canada.
- [56] Desjardins, C. D., & **Bulut, O.** (2016, June). *Profile analysis of multivariate data using the profileR package*. Poster presented at the R User Conference, Stanford, CA.
- [57] Palma, J., Van Boekel, M., & **Bulut, O.** (2016, June). After-school participation and the association with developmental outcomes. In *Using developmental skills and supports to improve youth outcomes*. Paper presented at the annual meeting of the Society for the Psychological Study of Social Issues, Minneapolis, MN.
- [58] **Bulut, O.**, Hou, X., & Lei, M. (2016, April). Examining testlet-position effects of reading passages in computer-based assessments. In *Psychometric issues in alternate assessments*. Paper presented at the annual meeting of the National Council on Measurement in Education, Washington, DC.
- [59] Lei, M., & **Bulut, O.** (2016, April). Impact of cumulative drift on parameter and ability estimates in alternate assessments. In *Psychometric issues in alternate assessments*. Paper presented at the annual meeting of the National Council on Measurement in Education, Washington, DC.
- [60] Stanke, L., **Bulut, O.**, Rodriguez, M. C., & Zamora, J. P. (2016, April). *Investigating linear and nonlinear item parameter drift with explanatory IRT models*. Paper presented at the annual meeting of the National Council on Measurement in Education, Washington, DC.
- [61] **Bulut, O.**, Lei, M., Kaplan, M., & Cormier, D. (2016, April). *Understanding nonresponse behaviors of students with disabilities in alternate assessments*. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.
- [62] Liou, P.-Y., & **Bulut, O.** (2016, April). *Item format, cognitive domain, and gender interaction in TIMSS 2011 science results*. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.
- [63] Nickodem, K., Van Boekel, M., Stanke, L., Palma, J., Vue, K., **Bulut, O.**, Kang, Y., Chang, Y.-F., & Rodriguez, M. C. (2016, April). *LGB students and school sports: A positive youth development approach*. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.

- [64] Cormier, D., Singh, D., Heudes, A. R., **Bulut, O.**, & Wang, K. (2016, February). *Linguistic demand of cognitive test directions across commonly used batteries*. Paper presented at the annual meeting of the National Association of School Psychologists, New Orleans, LA.
- [65] Cormier, D., **Bulut, O.**, Niileksela, C. R., Singh, D., Funamoto, A., Schneider, J., Reynolds, M., Keith, T., Frison, J., & McGrew, K. (2016, February). *Revisiting the relationship between CHC abilities and academic achievement*. Symposium presented at the annual meeting of the National Association of School Psychologists, New Orleans, LA.
- [66] Bellibas, M. S., **Bulut, O.**, & Gedik, S. (2015, September). *Exploring professional learning communities in Turkish schools*. Paper presented at the annual meeting of the European Conference on Educational Research, Budapest, Hungary.
- [67] Lei, M., & **Bulut, O.** (2015, June). Item parameter and score scale stability in alternate assessments. In *Validity of the next-generation assessments for all students*. Paper presented at the annual meeting of the National Conference on Student Assessment, San Diego, CA.
- [68] **Bulut, O.**, Lee, S.Y., & Suh, Y. (2015, April). *Detecting DIF in multidimensional data using MIMIC and IRT-LR-DIF*. Poster presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
- [69] **Bulut, O.**, Boekel, M. V., Stanke, L., Zamora, J. P., Nickodem, K., Vue, K., Chang, Y., Latterell, N. & Rodriguez, M. C. (2015, April). *Effects of participation in school sports on academic and social outcome variables*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- [70] Stanke, L., & **Bulut, O.** (2015, April). *A crossed-classified explanatory partial credit model*. Paper presented at the 2015 annual meeting of the American Educational Research Association, Chicago, IL.
- [71] Lee, S.Y., Suh, Y., & **Bulut, O.** (2014, July). *Multidimensional extension of multiple indicator multiple cause models to detect DIF*. Poster presented at the International Meeting of the Psychometric Society, Madison, WI.
- [72] Lei, M. & **Bulut, O.** (2014, June). Dimensionality of alternate assessments. In *Improving the technical quality of alternate assessments*. Symposium conducted at the National Conference on Student Assessment, New Orleans, LA.
- [73] **Bulut, O.** (2014, April). *Examining subscore reliability within the multidimensional IRT framework*. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA.²
- [74] **Bulut, O.**, & Lei, M. (2014, April). *Investigating the unidimensionality assumption in alternate assessments*. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
- [75] **Bulut, O.**, Boekel, M. V., Zamora, J. P., Stanke, L., & Rodriguez, M. C. (2014, April). *Investigating the effects of school sports on academic and social outcomes*. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
- [76] Zamora, J. P., Boekel, M. V., Stanke, L., Vue, Y. F., Cabrera, J. C., Chang, Y., Latterell, N., Karl, S. R., Rodriguez, M. C., & **Bulut, O.** (2014, April). *Examining after school activities: Do breadth and intensity matter?* Poster presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.

²This paper was awarded the 2016 Alicia Cascallar Outstanding Paper Award by NCME.

- [77] Sullivan, A. L., **Bulut, O.**, & Sadeh, S. S. (2013, August). *Psychiatric medication use among adolescents with disabilities*. Poster presented at the American Psychological Association Convention, Honolulu, HI.
- [78] **Bulut, O.**, & Kan, A. (2013, April). *Assessing the impact of item type on dimensional structure of mathematics assessments*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.
- [79] **Bulut, O.**, & Kan, A. (2013, April). *Examining the relationship between gender DIF and item type using explanatory IRT*. Poster presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.
- [80] **Bulut, O.**, Stanke, L., Rodriguez, M. C., Zamora, J. P., Vue, Y. F., & Cabrera, J. C. (2013, April). *Examining item parameter drift as a source of construct shift*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- [81] Stanke, L., Zamora, J. P., **Bulut, O.**, Rodriguez, M. C. (2013, April). *Investigating measurement invariance assumptions using item parameter drift across grade levels and ELL groups*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.
- [82] Kan, A, & **Bulut, O.** (2013, April). *Examining the language factor in mathematics tests using explanatory item response modeling*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- [83] Vue, Y. F., Stanke, L., Zamora, J. P., Cabrera, J. C., **Bulut, O.**, Latterel, N., & Rodriguez, M. C. (2013, April). *Using school climate to positively develop youth*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- [84] Canbazoglu, S., **Bulut, O.**, Guzey, S., Demirelli, H., & Durak, N. (2013, April). *Evaluation of the technological pedagogical content knowledge framework using structural equation modeling*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- [85] Kaya, F., **Bulut, O.**, Delen, E. (2013, April). *Does the use of different test booklets trigger DIF?* Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- [86] **Bulut, O.**, Delen, E., & Kaya, F. (2012, November). *A multilevel analysis of the relationship between types and location of universities and students' math performance in Turkey*. Paper presented at the annual meeting of the Association for Educational Assessment - Europe, Berlin, Germany.
- [87] **Bulut, O.**, Delen, E., & Kaya, F. (2012, November). *Teacher education reforms and PISA*. Paper presented at the annual meeting of the Association for Educational Communications and Technology, Louisville, KY.
- [88] **Bulut, O.**, Delen, E., & Kaya, F. (2012, July). *An SEM model based on PISA 2009 in Turkey: How does the use of technology and self-regulation activities predict reading scores?* Paper presented at the annual meeting of the International Educational Technology Conference, Taoyuan, Taiwan.
- [89] **Bulut, O.** (2012, April). *Measurement invariance with normal and non-normal ordinal data: A Monte Carlo comparison of model estimators*. Paper presented at the annual meeting of the National Council on Measurement in Education, Vancouver, British Columbia, Canada.

- [90] Delen, E., & **Bulut, O.** (2011, April). *The relationship between students' exposure to technology and their achievement in science and math*. Paper presented at the annual meeting of the International Educational Technology Conference, Istanbul, Turkey.
- [91] **Bulut, O.** (2011, April). *Examining item-position effects within reading items: the LLTM approach*. Poster presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- [92] Bishop, S., Liasou, D., **Bulut, O.**, Seo, D., & Bishop, K. L. (2011, April). *Modeling erasure behavior: Issues when using marginal sums and item-level data in erasure analysis*. Paper presented at the annual meeting of the National Council on Measurement in Education, New Orleans, LA.
- [93] Bishop, S., Liasou, D., **Bulut, O.**, Seo, D., & Steams, M. (2011, April). *Application and comparison of alternative procedures in erasure analysis*. Paper presented at the annual meeting of the National Council on Measurement in Education, New Orleans, LA.

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- The International Committee for AERA Division D, Member 2017 to Now
- National Council on Measurement in Education, Member 2009 to Now