

Dr. Walid Ahmed Sayed Ahmed Massoud

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Psychological Sciences Department
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Education

- PhD, Ain Shams University, 2010.
Major: Educational Psychology (Psychometrics)
Dissertation Title: Studying the impact of dynamic assessment on the effectiveness of a program to develop reading comprehension by using item response theory
- MA, Ain Shams University, 2004.
Major: Educational Psychology (Psychometrics)
Dissertation Title: A psychometric study to develop draw-a-man test using Rasch one parameter model
- EdD, Ain Shams University, 1997.
Major: Mental Hygiene
- EdD, Ain Shams University, 1996.
Major: Psychological Counseling
- BA, Faculty of Education, Ain Shams University, 1995.
Major: Arts and Pedagogy: English Department

Professional Memberships

- American Psychological Association. (December 31, 2024).
- National College Testing Association. (November 1, 2018 - December 31, 2024).
- Association of Test Publishers. (January 1, 2019 - December 30, 2024).
- National Association for Assessment Directors. (December 2, 2022 - December 1, 2024).
- National College Testing Association. (November 1, 2017 - October 31, 2018).
- National College Testing Association. (January 2016 - January 2017).

Development Activities Attended

- Workshop, "البحث النوعي: آفاق جديدة", مكتب التربية العربية لدول الخليج, الرياض, Saudi Arabia. (September 27, 2023).
- Workshop, "Web of Science and EndNote workshop," Qatar University, Qatar. (March 7, 2023).
- Seminar, "Open Artificial Intelligence in Education: Opportunities and Challenges," CELT, Doha, Qatar. (February 26, 2023 - March 3, 2023).
- Online Training Programs, "علموهم لزمانهم Generation Z-Alpha," NCED, CoE, QU, Doha, Qatar. (February 12, 2023 - February 26, 2023).
- Workshop, "Scopus for Qatar University," Qatar University Library, Doha, Qatar. (February 23, 2023).

Workshop, "التمذجة البنائية Structural Equation Modelling (SEM) باستخدام Smart PLS," Department of Psychological Sciences, CoE, QU, Doha, Qatar. (January 29, 2023 - January 30, 2023).

Conference Participation, "International Virtual Conference 2023," Qatar University, Doha, Qatar. (January 3, 2023 - January 4, 2023).

Workshop, "الأداء التفاضلي والتحيز لمفردات المقاييس في العلوم الاجتماعية والنفسية والتربوية باستخدام برنامج Winsteps Winsteps الأداء التفاضلي والتحيز لمفردات المقاييس في العلوم الاجتماعية والنفسية والتربوية باستخدام برنامج R," المؤسسة القومية للبحوث والاستشارات والتدريب, القاهرة, Egypt. (November 8, 2022 - November 15, 2022).

Self-Study Program, "Social-Behavioral-Educational (SBE) Comprehensive - Basic Course," CITI, Qatar. (September 20, 2022 - September 21, 2022).

Self-Study Program, "Social-Behavioral-Educational (SBE) Comprehensive," CITI, Qatar. (September 19, 2022 - September 21, 2022).

Workshop, "How to create a Virtual Reality lesson using space in SharePoint," CETL, Qatar University, Qatar. (September 20, 2022).

Workshop, "Microsoft Class Notebook," CETL, QU, Doha, Qatar. (February 21, 2022).

Workshop, "Microsoft SWAY," CETL, QU, Doha, Qatar. (February 13, 2022).

Online Training Programs, "Cybercrime Awareness Training," Cyber Security Center, Doha, Qatar. (January 10, 2022 - January 13, 2022).

Conference Participation, "6th Annual Qatar University International Conference," Qatar University, Doha, Qatar. (November 6, 2021 - November 8, 2021).

Online Training Programs, "NVivo 2018 Essential Training," LinkedIn Learning, Doha, Qatar. (October 29, 2021).

Seminar, "قيادة التغيير من الداخل: تشاركية كاملة وأصوات مسموعة," Qatar University, Doha, Qatar. (September 13, 2021).

Seminar, "تنفيذ أهم مبادرات استراتيجيات التعليم والتعلم الصورة الكبيرة," Qatar University, Doha, Qatar. (September 12, 2021).

Workshop, "Structural Equation Modeling, Confirmatory Factor Analysis, and Path Analysis using MPlus," NRCT, Cairo, Egypt. (September 5, 2021 - September 10, 2021).

Conference Participation, "6th Annual Qatar University International Conference," Qatar University, Doha, Qatar. (August 6, 2021 - August 8, 2021).

Online Training Programs, "Creating a Culture of Change," Qatar University, Qatar. (December 10, 2020 - December 14, 2020).

Conference Participation, "FP Virtual Academic Excellence Days," Qatar University, Doha, Qatar. (December 5, 2020).

Conference Participation, "2nd Qatar Math Day," Qatar University, Doha, Qatar. (February 16, 2020).

Conference Participation, "4th Annual Qatar University International Conference," Qatar University - Foundation Program, Doha, Qatar. (December 14, 2019 - December 15, 2019).

Conference Participation, "1st Qatar Math Day," Qatar University, Doha, Qatar. (December 2, 2018).

TEACHING

Teaching Experience

Qatar University, Qatar

1 course.
EDUC 319, Classroom Assessment, 1 course.
EPSY 201, Introduction to Psychology, 4 courses.
UNIV 100, First Year Seminar, 2 courses.

Umm Al-Qura University, KSA

17 courses.

Undergraduate Courses

206320-2 Basics of Educational and Psychological Statistics
208112 Educational Psychology

Postgraduate Courses

206360-2 Educational Psychology
206430-2 Tests and Scales
206520 Introduction to Statistics
206530 Psychological Scales

Master Courses

208681 Assessment of Attitudes
206620 Inferential Statistics I
206761 Inferential Statistics II
206632 Classical Test Theory (CCT)
206633 Assessment of Personality

Ph.D. Courses

208680 Basics of Educational Evaluation
206623 Non-Parametric Statistics
206761 Quasi-Experimental Research Designs
206760 Statistical Applications Using Computers
206783 Modern Theory in Measurement (IRT)
206784 Applications of Psychological and Educational Measurements

RESEARCH

Published Intellectual Contributions

Book Chapters

Massoud, W. A. S. A. (2022). *بناء الاختبارات المقننة باستخدام نظرية الاستجابة للمفردة. الاستكتاب العلمي الدولي*. الجزائر: جامعة الحاج لخضر - بانتة 1 - كلية العلم الجماعي حول: الاختبارات والمقاييس النفسية: البناء، التقنين، التكيف. *الانسانية و الاجتماعية - مخبر بنك الاختبارات النفسية و المهنية و المدرسية*.

Massoud, W. A. S. A., Abdel-Latif, M. (2022). Massoud, W., Abdel-Latif, M. (2021). Toward Resilient Online Assessments: Lessons Learned from the COVID-19 Era. In: Fayed, I., Cummings, J. (eds) Teaching in the PostCOVID-19 Era. Springer, Cham. https://doi.org/10.1007/978-3-030-74088-7_33. Fayed, I., Cummings, J. (2021) *Teaching in the PostCOVID-19 Era*. Springer, Cham. https://doi.org/10.1007/978-3-030-74088-7_33. Springer, Cham.

Refereed Journal Articles

Massoud, W., Salama-Younes, M., Fellouillet, F., Kharbouch, A., Elthahir, A., Al-Raheem, A., Kazem, A., Osman, A., Abu Ghali, E., Kerkouche, F., Yousfi, H., Goltan, H., Bia, J., Gady, N., Al Kafagy, N., Ahmed, N., Al-Arja, N., Elyahfoufy, N., Abdelati, S., Elgedawy, S., Al-

- Said, T., Park, N. (2023). Factor structure and measurement invariance of the Values in Action inventory of strengths reduced set for nine Arab countries. *Middle East Journal of Positive Psychology*. <http://www.middleeastjournalofpositivepsychology.org/>
- Massoud, W., Ahmed, M., Agaibi, C., Alsalhi, N. R. (2023). College Students' Mindfulness, Resilience, Flourishing, and Academic Success: An Exploratory Study from Egypt. *Przestrzen Społeczna (Social Space)*, 23(2), 375-404. <https://socialspacejournal.eu/menu-script/index.php/ssj/article/view/236>
- فتح الله، محمد. وآخرون. (٢٠٢١). تحليل مستويات نوبات الهلع من جائحة كورونا باستخدام نظرية الاستجابة للمفردة: دراسة تشخيصية على عينات من المجتمعات العربية. مجلة كلية التربية. جامعة العريش. ٢٧.
- Salama-Younes, M., Massoud, W. (2018). Flourishing: re-validity structure for Egyptian adults. *Arab Journal of Psychology*. <http://www.ajopsy.com/wp-content/uploads/2015/10/Ajopsy-Abstarcts-5.pdf>
- Salam-Younes, M., Massoud, W. A. (2018). Validity and Reliability of Well-being Scales: A Study on Egyptian Physically Active Senior-Aged Adults. *Chronicle of Advances in Positive Health and Well-Being*, 1(1). <http://www.ippanetwork.org/wp-content/uploads/2018/06/Health-Division-IPPA-Newsletter-Spring-V6-1.pdf>
- Du, X., Massoud, W., Al-Banna, N. A., Al-Moslih, A. M. I., Abu-Hijleh, M. F., Hamdy, H., Cyprian, F. S. (2016). Preparing foundation-year students for medical studies in a problem-based learning environment: Students' perceptions. *Health Professions Education*, 2(2), 130-137. <http://dx.doi.org/10.1016/j.hpe.2016.06.001>
- EIAlfy, M., Ragaba, E., Abdel-Aziza, E., Massoud, W., & Elsedfy, H. (2013). Deferiprone and desferrioxamine combined chelation could improve adolescent males' puberty with b-thalassemia major with preserved pituitary and testicular function. *The Egyptian Society of Haematology*. 38(4): 149-154. DOI: 10.7123/01.EJH.0000434285.33634.83
- Elalfy MS, Esmat G, Matter RM, Abdel Aziz HE, Massoud W. (2013). Liver fibrosis in young Egyptian beta-thalassemia major patients: relation to hepatitis C virus and compliance with chelation. *Ann Hepatol*. 12(1):54-61.
- Elalfy MS, Massoud W, Elsherif NH, Labib JH, Elalfy OM, Elaasar S, von Mackensen S. (2012). A new tool for the assessment of satisfaction with iron chelation therapy (ICT-Sat) for patients with β -thalassemia major. *Pediatr Blood Cancer*. 58(6):910-5.

Presentations Given

- Massoud, W. A. S. A. (Author & Presenter), تقديم ورشة عن تطبيق تقييم الكتاب المفتوح في التعليم العالي: "تطبيق تقييم الكتاب المفتوح في التعليم العالي: مبادئ وأسس QU, QU, Qatar. (October 27, 2023).
- Massoud, W. A. S. A. (Author & Presenter), Academic Excellence Days 2022, "Validating Test Items," QU, Qatar. (May 16, 2022).
- Massoud, W. A. S. A. (Author & Presenter), Al-Qabas 2022, "Standardized Tests at QU," QU, Qatar. (April 1, 2022).
- Massoud, W. A. S. A. (Author & Presenter), Academic Excellence Day2 2021, "Test Blueprint: What? Why? How?," QU, Qatar. (December 7, 2021).
- Massoud, W. A. S. A. (Author & Presenter), التميز في التعليم والتعلم بتنظيم ورش العمل عبر الإنترنت, "تطبيق QU, Doha, Qatar. (October 27, 2021).
- Massoud, W. A. S. A. (Author & Presenter), Executive Assessment Forum, "Higher Education and Language Assessments," Other, Europe, Qatar. (September 14, 2021).

Massoud, W. A. S. A. (Author & Presenter), Center for Excellence in Teaching and Learning Workshops, "Standardized Tests: Definition, Conditions, Procedures, Accreditation," QU, Qatar. (August 23, 2021).

Perakis, S. J. (Chair), Massoud, W. A. S. A. (Co-Author), Rhouma, M. B. (Co-Author), Education, Engineering Education and Instruction Technology Conference (EEEITC 21)

, "ROC analyses of Qatar University's Mathematics Placement Test on Course performance Classification: Part of an ongoing research project Machine Learning Modeling Student Success in Foundation Program and Post Foundation Mathematics Courses," QU, Online, Qatar. (February 23, 2021).

Massoud, W. A. S. A. (Author & Presenter), Perakis, S. J. .. (Author & Presenter), MEA-ATP 2020 Transforming Learning to Unlock Potential Muscat, Oman, "Unexpected Outcomes from a University Mathematics Placement Test," QU, Muscat, Oman. (January 28, 2020).

Massoud, W. A. S. A. (Co-Author), Ahmed, M. S. (Author & Presenter), 8th European Conference on Positive Psychology, "Rasch Analysis and Confirmatory Factor Analysis for the Flourishing Model with French Adult," Other, France. (June 28, 2016).

Contracts, Grants and Sponsored Research

Grant

Elsayed, T. (Lead Principal Investigator), Bouamor, H. (Principal Investigator), Massoud, W. (Principal Investigator), "Dimension-Specific Automated Scoring of Arabic Language Writing Proficiency," International, \$529,076.00. (April 2023 - March 2026).

Research Currently in Progress

"Machine Learning modeling student success in Foundation Program and Post Foundation Mathematics Courses" (On-Going).
Meeting Qatar's National Vision 2030 requires a well-qualified national workforce. Science, technology, engineering and business fields are essential disciplines that will make the vision a reality. These fields rely heavily on employees who are efficient with mathematics concepts in the acquisition of skills and their application. The following study seeks to identify with machine learning algorithms the best model for predicting success in mathematics courses for newly admitted QU students. An outcome of the research will identify key-concept performance that are critical for success in Qatar University mathematics courses through Calculus 1 using the QU-Placer math placement test and other variables available in the QU admissions file. The results can inform department heads of the outcomes so that the findings might be used to affirm existing curricula or perhaps, to modify them. Preliminary and incomplete data-analyses indicate promising findings however, a more complete study is needed to build a better model for stakeholders. Lastly, the researchers are unable to find examples of academics solving the questions we wish to answer with similar methods (i.e. with testlets, admissions data, and machine learning).

SERVICE

Department Service

Member, إعداد برنامج دبلوم القياس والتقويم. (September 1, 2022 - September 3, 2023).

University Service

Committee Member, اللجنة المشتركة لتنسيق التعاون بين وزارة الصحة العامة وجامعة قطر فيما يخص شهادة الاختصاصات الطبية القطرية. (June 11, 2023 - July 10, 2024).

Committee Member, لجنة مراجعة الاستبيانات المؤسسية. (August 1, 2021 - June 30, 2024).

Committee Member, لجنة استبقاء للعام الاكاديمي ٢٠٢٣/٢٠٢٤ بعمادة الدراسات العامة. (September 1, 2023 - May 30, 2024).

Guest Speaker, QU Forum for School Advisors. (August 29, 2023 - August 30, 2023).

Committee Member, لجنة استبقاء للعام الاكاديمي ٢٠٢٢/٢٠٢٣ بعمادة الدراسات العامة. (September 1, 2022 - May 30, 2023).

Professional Service

Editor, Journal Editor, Journal of Mental Health and Behavioral Sciences. (January 1, 2023 - December 30, 2023).

Board Member, Journal of the National College Testing Association. (November 1, 2021 - December 30, 2023).

Editor, Journal Editor, Journal of the National College Testing Association. (November 1, 2021 - December 30, 2024).

Reviewer, Journal Article, Middle East Journal of Positive Psychology. (January 1, 2015 - December 30, 2024).

Judge, AERA 2024 Annual Meeting. (June 1, 2023 - September 15, 2024).

Judge, Journal of Statistics Applications & Probability (JSAP). (March 1, 2023 - April 30, 2023).

Judge, The Educational Journal of Kuwait University. (January 1, 2022 - February 28, 2022).

Peer Reviewer, Int. J. of Happiness and Development. (June 1, 2017 - December 30, 2021).

Peer Reviewer, PeerJ Computer Science. (March 2019 - November 2019).

Reviewer, Journal Article, International Journal of Language and Applied Linguistics. (January 2015 - May 2019).

Public Service

Guest Speaker, Qatar Career Center, QF, Doha. (July 5, 2022).

Guest Speaker, مدرسة ابن تيمية الثانوية للبنين, Doha. (October 25, 2021).

Awards and Honors

Service

CERTIFICATE OF APPRECIATION, Ministry of Public Health. (March 1, 2023).

CERTIFICATE OF APPRECIATION, Ministry of Health. (October 1, 2022).

SERVICE RECOGNITION CERTIFICATE, NCTA. (August 1, 2022).

خطاب شكر وتقدير, شهادة التخصصات الطبية القطرية - وزارة الصحة. (November 17, 2021).