

Omar Abu-Ghalyoun



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EDUCATION

Doctor of Philosophy	Western Michigan University Mathematics Education
Master of Science	The University of Jordan Mathematics
Bachelor of Science	The University of Jordan Mathematics

PROFESSIONAL EXPERIENCES

Management	Aug. 2024- Feb. 2025	Acting Director. <i>National Center for Curriculum Development. Amman/Jordan.</i>
	2020-2024	Deputy Director. <i>National Center for Curriculum Development. Amman/Jordan.</i>
	2010-2012	Project Manager. <i>Obeikan Education Co.</i>
Curriculum Development	2020-present	Head of the Math Curriculum Development Team. <i>National Center for Curriculum Development. Jordan.</i>
	2014-2016	Mathematics Curriculum Consultant. <i>The UNESCO Office for Iraq in Amman/Jordan.</i>
	2008-2014	Mathematics Curriculum Writer and Content Editor. <i>Obeikan Education Co.</i>
Teacher Education	2019-2020	International Teacher Trainer for GCSE. <i>Pearson Education Co.</i>
	2017-2018	Teacher Educator. <i>Taught and contributed to designing a curriculum for a Probability and Statistics course tailored for pre-service teachers at Western Michigan University.</i>

	2014	Educational Consultant <i>Pearson Education Limited– Saudi Arabia Branch Office. Worked for the Mathematics and Science Blended Professional Development Program (BPDP).</i>
	2021	Led the design and implementation of a comprehensive 40-hour online training program for mathematics teachers in Jordan, focused on the newly developed curriculum, during the nationwide school closures caused by the COVID-19 pandemic.
	2022	Led the design and implementation of a comprehensive in-person training program for all mathematics supervisors within the Jordanian Ministry of Education, centered on the content of the newly developed high school curriculum.
Mathematics Teaching	2015-2019	Graduate Instructor at Western Michigan University. Taught courses: Pre-Algebra, Algebra I, Probability and Statistics (for pre-service teachers), and Excursions in Mathematics (selected topics from Graph Theory, Financial Math, and Statistics).
	2005-2008	Mathematics Teacher, Cambridge High School /Jordan. Taught Curriculum: IGCSE, SAT, and the national curriculum.

PROFESSIONAL TRAINING

Project Management Training and Certification Program *PMP®*. 62 Contact Hours (PDUs) of Project Management Education. *Method Corporation/ Jordan*. <http://methodcorp.com/>

Training and Certification Program of Strategies to Support Teacher Capacity Building through Technology. *EdTech Policy Academy/ The World Bank*.

LANGUAGES

Arabic: Mother tongue

English: Excellent command (highly proficient in both spoken and written English).

PUBLICATIONS

Journal Articles

Abu Ghalyoun, O., & Abualrub, M. (2011) Traveling Wave Solutions for a non- Linear Diffusive Partial Differential Equation. *Journal of Applied Functional Analysis*, 6, 308-313

Abu Ghalyoun, O. (2019). [Review of the book *Taking Action: Implementing Effective Mathematics Teaching Practices in Grades 9-12*, by M. Boston, F. Dillon, M. Smith & S. Miller]. *Journal of Educational Sciences*, 31(3), 591-595.

Abu-Ghalyoun, O. (2021). Pre-service teachers' difficulties in reasoning about sampling variability. *Educational Studies in Mathematics*, 108(9), 553–577.

Altarawneh, A., Abu-Ghalyoun, O., & Marei, S. (2023). The Employment of Active Learning Strategies by Mathematics Teachers and the Obstacles to their Use. *Journal of Educational and Social Research*, 13(3), 253–264.

Ababneh, E, Al-Bursan, I, Abu-Ghalyoun, O. (2023). Assessing the Readiness of the Ministry of Education in Jordan to its Participation in the Program for International Student Assessment (PISA) in 2022 from the Perspective of the Educational Supervisors. *Journal of Educational Sciences* (King Saud University). 14 (2), 1-23.

Abu-Ghalyoun, O. and Al-Abed, A. (2024). Pre-service middle school teachers' specialized content knowledge on sampling variability, *Teaching Statistics*. 46(3), 171–183. Advance online publication. DOI 10.1111/test.12377

El-Shara, I., Abu-Ghalyoun, O., Arouri, Y., & Jbareen, H. (2025). Mathematics teachers' perspectives on utilizing AI in their teaching practices: Examining regional and teaching experience factors. *Journal of Education and e-Learning Research*. Advance online publication.

Abu-Ghalyoun, O., El-Shara, I., & Ababneh, E. (2025). Mathematics teachers' insights on a program for addressing learning loss in Jordan after the COVID-19 pandemic. *Educational Process: International Journal*. Advance online publication.

Conference Proceedings

Abu Ghalyoun, O. (2017). Developing K-8 Preservice Teachers' Informal Statistical Inference in a Dynamic Software Environment. *Proceedings of the 21st annual conference of the Association of Mathematics Teacher Educators*, Huston, TX

Abu Ghalyoun, O. (2018). Preservice Teachers' Use of Dynamic Software to Explore Sampling Variability. *Proceedings of the 22nd annual conference of the Association of Mathematics Teacher Educators*, Orlando, FL.

Al-Mawadieh, R., Abu-Ghalyoun, O., Al Tarawneh, I., Al-Zu'bi, M., & others. (2023). Development of educational sciences colleges in Jordanian universities in the light of applications of artificial intelligence from the point of view of faculty members: A proposed concept. 2023 24th International Arab Conference on Information Technology (ACIT).

School Curriculum Materials

- Co-authored 56 mathematics textbooks and workbooks for grades 1–12, and 20 teacher guides as part of a national curriculum reform initiative led by the National Center for Curriculum Development (Jordan).
- Translated, edited, and localized the Arabic versions of *Algebra 1*, *Algebra 2*, and *Geometry* by Glencoe McGraw-Hill, adopted by the Ministries of Education in Saudi Arabia and Bahrain.

- Translated, edited, and localized the Arabic versions of the *Math Connects* series by Macmillan McGraw-Hill, adopted by the Ministries of Education in Saudi Arabia, Bahrain, and Qatar.
- Edited and localized the Arabic version of the *Vitamin Online Instructional Support System* for the Saudi Arabian curriculum. Vitamin is a product of SIBET Education and Information Technology Inc.
- Translated and localized the *Advanced Supplementary Curriculum* by Nord Anglia Education (UK), adopted by the King Abdul-Aziz Foundation for Giftedness and Creativity for gifted students in Saudi Arabia.
- Contributed to the development of K–12 mathematics textbooks for the Republic of Iraq, commissioned by UNESCO.

PROFESSIONAL MEMBERSHIPS

Psychology of Mathematics Education-North American Chapter (PME-NA)

Michigan Association of Mathematics Teacher Educators (M-AMTE)

NATIONAL COMMITTEES

- Member of the National Committee assigned to analyze Jordanian students' performance in international assessments, formed in 2024.
- Member of the task force responsible for developing the National Remedial Plan to address learning loss caused by the COVID-19 pandemic, commissioned in 2022.
- Member of the Early Childhood Education Project Committee (Asas Project), a national initiative launched to advance early childhood education in Jordan (2023).
- Member of the Preparatory Committee for the Joint School Curriculum Conference between the University of Jordan and the National Center for Curriculum Development (2025).

CONFERENCES ATTENDED

Conversation Among Colleagues Conference – *Supporting Teachers Mathematically and Pedagogically* Wayne State University, USA — March 21, 2015

PME-NA 37 – *Thirty-Seventh Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Michigan State University, USA — November 5–8, 2015

Conversation Among Colleagues Conference – *Bringing the Standards for Mathematical Practice to Life* Western Michigan University, USA — March 19, 2016

Teaching Mathematics Content Courses Conference – *Prioritizing Particular Content and Practices in the Mathematics Education of Teachers: Making Hard Decisions Together*, Ann Arbor, MI, USA — October 29, 2016

Conversation Among Colleagues Conference – *Developing Systems to Face the Challenges of Today and Tomorrow* Michigan State University, East Lansing, MI, USA — March 18, 2017

PME-NA 39 – *Thirty-Ninth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* Indiana, USA — October 5–8, 2017

AMTE 2018 – *Twenty-Second Annual Conference of the Association of Mathematics Teacher Educators*, TX, USA — February 8–10, 2018

AMTE 2019 – *Twenty-Third Annual Conference of the Association of Mathematics Teacher Educators* Florida, USA — February 8–10, 2019