|  |
| --- |
| **Personal Information** |

|  |  |
| --- | --- |
| **Name** | Ahmad Moh’d Al\_Migdady |
| **Place and date of birth** | Eit-Eides, Irbid  Jan, 22, 1958 |
| **Faculty** | School of Educational Sciences, University of Jordan, Amman- Jordan. |
| **Department** | Curriculum and Instruction |
| **Office**  **Mobile**  **Email** | 06-5355000-ext. 24480  962-777487048  a.migdady@ju.edu.jo |

|  |
| --- |
| **Qualifications** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Degree** | **Specialization** | **University of donor rank** | **Date** |
| 1. Doctor of Philosophy in Education | Curriculum and Instruction/ Teaching Mathematics | The University of New Orleans, La, USA. | 1997 |
| 1. Master in Education | Teaching Mathematics | Yarmouk University, Irbid- Jordan | 1988 |
| 1. Diploma in Education | Teaching Mathematics | Yarmouk University, Irbid- Jordan | 1980 |
| 1. Bachelor of Science | Mathematics | Yarmouk University, Amman-Jordan | 1980 |

|  |
| --- |
| **Specialization and domain of interest** |

|  |  |
| --- | --- |
| **Specialization** | Curriculum and Instruction/ Teaching Mathematics |
| **Domain of interest** | Teaching and Mathematics, Evaluation of Curriculum and Instruction Programs Theories of Learning and their Modelss instruction, teacher education. |

|  |
| --- |
| **Title and abstract of the doctoral thesis (within 150 words)** |
| An Investigation of the Understanding of the Numerical  Experience Associated with the Global Behavior of Polynomial  Functions for Students in Graphing and Non-Graphing Calculator College Algebra Courses  Abstract  This study investigated the extent to which students' understanding of the numerical experience associated with the global behavior of polynomial functions was or was not influenced by the availability of the graphing calculator. This understanding was determined by students' use of a table of values to find the x- and y-intercepts, the increasing and decreasing regions, and the end behavior of polynomial functions.  The investigation was conducted using college students in college algebra courses. They were divided into two groups: (1) The graphing calculator group (GCG) where teachers used the graphing calculator in conjunction with teacher explanation. (2) The non-graphing calculator group (NGCG) where teachers used explanation with no graphing calculators. The professors and students of three graphing calculator sections who volunteered to participate in the study served as the GCG. Similarly, three volunteer non-graphing calculator sections served as the NGCG.  All students took pre- and posttests, and 16 students (8 from each group) were interviewed after the posttest. The pre- and posttests focused on students' use of the tabular  representation of polynomial functions to work across  functional representations, namely algebraic, tabular and graphical representations. Interviewed students were asked to explain their reasoning aloud while solving three  problems similar to problems in the posttest.  In terms of students' understanding of the numerical experience associated with the global behavior of polynomial functions, the results of quantitative and qualitative data have shown that the GCG performed better than the NGCG. ANCOVA results indicated that the GCG students achieved higher posttest scores than the NGCG students. In addition, interview data revealed major differences existing between the GCG and the NGCG students in their reasoning when working across functional representations.  Future research is recommended to investigate the effects of graphing calculators on students' understanding of the numerical experience associated with the global behavior of functions that might have asymptotes, such as rational and trigonometric functions. |

|  |  |
| --- | --- |
|  | **Career Experience** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Career title | Institution | country | From | To |
| 1. Assistants Professor of Teaching Mathematics | Department of Curriculum & Instruction, School of Educational Sciences - University of Jordan | Jordan | 1997 | 2006 |
| 1. Associate Professor of Teaching Mathematics | Department of Curriculum & Instruction, School of Educational Sciences - University of Jordan | Jordan | 2006 | Present |
| 1. Tutoring Introductory Mathematics Courses | at the University of New Orleans, LA, USA | La, USA | 1993 | 1994 |
| 1. Full-time lecturer | Department of Curriculum & Instruction, School of Educational Sciences - University of Jordan | Jordan | 1992 | 1993 |
| 1. supervisor of Mathematics | Ministry of Education | Jordan | 1990 | 1992 |
| 1. Mathematics Teacher | Ministry of Education | Jordan | 1980 | 1990 |

|  |  |
| --- | --- |
|  | **Administrative works and committees** |

**Administrative Works**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Job title | Institution | country | From | To |
|  | Director of the Research Centre | School of Educational Sciences- University of Jordan | Jordan | 20/9/2020 | 15/9/2021 |

|  |
| --- |
| **Committees and Activities** |

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Title of Committee or Activity** | **اInstitution** | **Date** |
|  | A member of a committee for pre-service teacher Education program in Jordan | The University of Jordan | Several Times |
|  | A member of a committee for nominating students for Phd Scholarships in Curriculum and Instruction | The University of Jordan | Several Times |
|  | Member of the study plan | School of Educational Sciences-The University of Jordan | Several Times |
|  | Member of the Graduate Studies committee at faculty level | School of Educational Sciences | Several Times |
|  | A reviewer of Many Research Papers | Submitted to “Education in the Several Conferences and Journals |  |
|  | A Chair/ member of a committee for Defending Students Dissertations and Thesis | School of Educational Sciences-The University of Jordan and other Universities in Jordan | Several Times |
|  | A member of a committee for developing the University Model School | The University of Jordan | Several Times |

|  |  |
| --- | --- |
|  | **Publications** |

*Books and Chapters in Books*

*Al-Migdady, Ahmad (2022). Evaluation of Curriculum and Instruction, Al-AMerera Bookshop, Amman; Jordan.*

*AL-Migdady, Ahmad (2002). Problem Solving. In. A book about Methods of Teaching Mathematics, Amman Arab University.*

*Research Articles*

*-Al-Migdady, Ahmad. (2000). The Effect of Integrating Statistics and Environmental Issues Upon Students' Statistical Performance at the College Level. Proceedings of the International Conference: Mathematics for Living, the Mathematics Education into the 21st Century Project. Amman-Jordan 18-23 (Pp. 328-332.*

*- Al-Migdady, Ahmad. (2005). Using Wheatley's Constructivist Model on Student's Learning of Ratio and Proportion. Journal of Faculty of Education. Assuiut University, Egypt 21(2), Pp. 16-35.*

*- - Al-Migdady, A., Aljarah, A., and Khwalelh, F. (2011). The Effect of Technology on the Classroom Discourse in a College Introductory Course in Jordan. International Journal of Instructional Technology and Distance Learning 3( 2), Pp. 35-44.*

*- Al-Migdady, A. (2012). Effectiveness of Graphing Calculator Technology on Students Understanding of the Global Behavior of Rational Functions in a College Introductory Mathematics Course in Jordan: A follow Up Study. International Journal of Instructional Technology and Distance Learning 9(4), Pp. 37-48.*

*- -Abu Sarar, M. and Al\_Migdady, A. (2014). The Effect of Using Stepans' Model of Conceptual Change on the Modification of Alternative Mathematical Concepts and the Ability of Solving Mathematical Problems of Ninth Grade Students in Jordan. European Scientific Journal.10(22), Pp. 191-203.*

*- AL-Migdady, A. (2014). Skilled Unskilled Mathematical Problem Solvers. Jordanian-Students’ Differences in Solving Geometrical Problems. European Scientific Journal. 10(25), Pp. 123-137.*

*- -ALMigdady,(2016).Primary Mathematics Curriculum in Singapore and Jordan: An Analysis and Comparative Study. European Journal of Social Sciences. 52(2), 215-230.*

*- -AL-Migdady, A. and Qatatsheh, F. (2017). The Effect of Using Crocodile Mathematics Software on Van Hiele Level of Geometric Thinking and Motivation among Ninth-Grade Students in Jordan. International Journal of Instructional Technology and Distance Learning 14(3), Pp. 85-102.*

|  |  |
| --- | --- |
|  | **Scientific conferences** |

1. The International Conference: Mathematics for Living, the Mathematics Education into the 21st Century Project. Amman-Jordan Oct, 18-23, 2000. Participated in a paer.
2. The Educational Systems Conference in the Arab World in Renewable Environment, Amman, Jordan. Participated in a paper.
3. The National Standards for developing teachers professionally, Amman, Jordan. Participated in a paper, May, 2006.
4. The Second Conference, Learning and Teaching for Future, 31/5-2/6, 2022, Irbid National University, Irbid, Jordan. Participated in a paper.