

Name: Nimer Baya'a

Date: 30th September, 2023

CURRICULUM VITAE

1. Personal Details

Permanent Home Address: Ha'atsmaout St. 30/11, P.O. Box 2430, Acre, Israel, 24123

Home Telephone Number: + 972 (0)4-9915181

Office Telephone Number: + 972 (0)4-6286659

Cellular Phone: + 972 (0)58-7282694

Electronic Address: bayaan@qsm.ac.il, Internet site: lec.qsm.ac.il/nimer

2. Higher Education

A. Undergraduate and Graduate Studies

Period of Study	Name of Institution and Department	Degree	Date of Approval of Degree
1987 - 1988	The American University, Mathematics, Statistics and Computer Science Department, Washington D.C., U.S.A.	M.Sc. Computer Science	18.8.1988
1982 - 1985	The American University, Mathematics, Statistics and Computer Science Department, and School of Education, Washington D.C., U.S.A.	Ph.D. Mathematics Education	20.12.1985
1977 - 1982	University of Haifa, Mathematics Department and School of Education, Israel University of Haifa, Mathematics Department, Israel	M.A. Mathematics Education M.A. Mathematics (with distinction) <i>Two separate degrees</i>	20.6.1983 20.6.1983
1974 - 1977	University of Haifa, Mathematics Department, Israel	B.A. Mathematics (with distinction)	30.10.1977

B. Pedagogic Higher Education:

Period of Study	Name of Institution and Department	Degree	Year of Approval of Degree
	Ministry of Education, Israel	Computer Science Teaching License for secondary schools	17.10.1990
		Mathematics Teaching License for secondary schools	4.2.1980 (7-10 th grade) 12.7.1990 (7-12 th grade)
1977 - 1980	University of Haifa, School of Education, Israel	Teaching Certificate in Mathematics	24.6.1980

C. Continuing Education Courses:

Institute	Course	Hours	Academic Year
Prizma Group, The MOFET Institute, Tel-Aviv. Ministry of Education	Educating Digital Learning Leaders in Teacher Training Colleges		12.2020 - Present
"Al-Qasemi" Academic College of Education - Baqa El-Gharbiah and Starter Company	Management Development	36	1.2020 – 8.2020
The Center for Continuing Education, Shlomi.	Management of organizational information and knowledge in the schools.	30	5.7.2015 – 7.7.2015
The Center for Continuing Education, Shlomi.	"Ofek" - Managing a technology-rich classroom.	30	6.7.2014 – 8.7.2014
Ministry of Education, Shfayeem.	Professional development: the pedagogical headquarter staff.	30	21.11.2013- 29.5.2014
Open University, Ra'anana.	Professional development program: collaborative learning	30	End date: 22.4.2014

Institute	Course	Hours	Academic Year
"Al-Qasemi" Academic College of Education - Baqa El-Gharbiah.	Professional development: pedagogical supervisor - PDS.	56	End date: 11.6.2013
"Al-Qasemi" Academic College of Education - Baqa El-Gharbiah.	Professional development of the pedagogical supervisor.	56	End date: 31.8.2012
The MOFET Institute, Tel-Aviv.	ICT coordinators forum, Topics in teachers' training.	44	End date: 30.6.2008
"Al-Qasemi" Academic College of Education - Baqa El-Gharbiah.	Training expert teachers.	56	End date: 18.5.2008
The Center for Continuing Education, Shlomi.	Informatics standards in practice.	28	End date: 10.7.2007
Ministry of Education, Tel-Aviv.	Innovation in ICT for supervisors.	152	End date: 24.6.2007
The Center for Continuing Education, Shlomi.	Innovation in ICT for supervisors.	28	End date: 4.7.2006
The Center for Continuing Education, Shlomi.	Computerization program phase IV.	28	End date: 29.9.2005
The MOFET Institute, Tel-Aviv.	Surfing the Internet conference 5 - We are an online generation.	8	End date: 1.6.2004
The Center for Continuing Education, Shlomi.	Distance Learning.	17	End date: 7.4.2003
The Israeli society for computers in education, Tel-Aviv.	Eighteenth annual conference for computers in education.	16	End date: 27.1.2003
The Center for Continuing Education, Shlomi.	Informatics, ethics and values on the net.	28	End date: 9.7.2002
Tiltan College, Haifa.	Web site design.	56	End date: 22.3.2002

Institute	Course	Hours	Academic Year
The Israeli society for computers in education, Tel-Aviv.	Seventeenth annual conference for computers in education.	14	End date: 11.12.2001
"Amal" Technological Pedagogical Center, Tel-Aviv.	Continuing education of the headquarter staff of the Science and Technology Administration on the topic: "Development of work teams in computerization processes".	112	End date: 12.7.2001
"Amal" Technological Pedagogical Center, Tel-Aviv.	Continuing education of the headquarter staff of the Science and Technology Administration on the topic: "ICT literacy and computer applications in it".	112	End date: 16.7.2000
Ministry of Education, Tel-Aviv.	Continuing education of the staff of the Science and Technology Administration.	28	End date: 18.11.1999
Teachers' Union, Tel-Aviv.	School enrichment.	14	End date: 31.8.1999
Ministry of Education, Tel-Aviv.	ICT Literacy.	56	End date: 11.7.1999
The MOFET Institute, Tel-Aviv.	The third international conference on Teacher Training, almost 2000: crisis and prospect of preparation and training of teachers.	30	End date: 1.7.1999
Ministry of Education, Tel-Aviv.	Continuing education of the staff of the Science and Technology Administration.	20	End date: 13.11.1997
The Center for Continuing Education, Shlomi.	Advanced computer applications (multimedia and Internet).	50	End date: 31.8.1995
The American University, Washington D.C., U.S.A.	Computerization and modern technological teaching methods. (As part of study fund - "Keren Hishtalmoot")	224	End date: 20.8.1995

Institute	Course	Hours	Academic Year
The Israeli society for computers in education, Tel-Aviv.	Twelfth annual conference for computers in education.	16	End date: 11.4.1995
The Academic Center for Training Arab Teachers, Beit-Berl College.	Institutional continuing education	35	End date: 30.6.1994
The Israeli society for computers in education, Tel-Aviv.	Eleventh annual conference for computers in education.	16	End date: 22.3.1994
The MOFET Institute, Tel-Aviv.	International congress on teachers' education: from practice to theory	24	End date: 5.10.1993
The Israeli society for computers in education, Tel-Aviv.	Tenth annual conference for computers in education.	16	End date: 30.3.1993
The Israeli society for computers in education, Tel-Aviv.	Ninth annual conference for computers in education.	28	End date: 14.4.1992
The Institute for Teaching Tool, Ministry of Education, Tel-Aviv.	Mentors for using tools for the PC.	25	End date: 31.10.1990
The American University, Washington D.C., U.S.A.	Participation in the faculty seminars.		Summers of: 1989, 1991, 1992, 1995, 1996

3. Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank
19.2.2023	"Al-Qasemi" Academic College of Education - Baqa El-Gharbiah, Israel. School of Education	Associate Professor in the professional track in the field of technologies in education and digital integration in teaching

Dates	Name of Institution and Department	Rank
1.9.2012 - 19.2.2023	"Al-Qasemi" Academic College of Education - Baqa El-Gharbiah, Israel. School of Education	Senior Lecturer A
1.9.2008 - 1.9.2012	"Al-Qasemi" Academic College of Education - Baqa El-Gharbiah, Israel. School of Education	Senior Lecturer
1.9.2002 - 1.9.2008	The Academic Arab College for Education in Israel - Haifa, Israel. Computer Science Department	Senior Lecturer
1.1.2000 - 1.9.2002	Beit-Berl College, The Academic Center for Training Arab Teachers, Israel. Computer Science Department	Lecturer

4. a. Offices in Academic Administration

Academic Institution	Position	Years
"Al-Qasemi" Academic College of Education - Baqa El-Gharbiah, Israel.	Head of Digital Learning Unit	2020 - Present
	Head of the Information Communication Technology (ICT) Center	2015 – present
	Head of the Graduate Studies for M.Ed. Degree	2017 – 2018
	Head of the "Teaching and Learning" Program in the Graduate Studies for M.Ed. Degree	2015 – 2018
	Member of the steering committee of the TEC center in The MOFET Institute	2015 – 2018
	Member of the program committee for the M.Ed. studies in Mathematics Education	2010 - present
	Member of the personal final project committee of the M.Ed. studies	2010 - 2018
	Member of the research committee of the research center	2009 - present

Academic Institution	Position	Years
	Member of the steering committee of the ICT center	2007 - present
	Representing the college in the IN2IT (Internationalization by Innovative Technology) project co-funded by the Erasmus+ program of the European Union	2015 – 2017
	Member of the academic and administrative evaluation committee of the academic year 2010 - 2011	2010 - 2011
	Member of the editorial board of the journal "Jami'a"	2009 - 2012
	Computerization Consultant	2007 - 2015
The Academic Arab College for Education in Israel	Chair of Computer Science Department	2000 - 2007
	Head of the unit for information systems	2000 - 2007
	Member in the teaching committee	2000 - 2007
	Head of the center for distance learning	2000 - 2007
	Head of the center for mathematics and computers	2000 - 2007
Beit-Berl College, Academic Center for Training Arab Teachers, Israel.	Editor of the journal "Inter Tarbiyah" (an educational journal that included articles in the field of integrating internet in education) [Arabic]	2000
	Member of the pedagogical training council	1990 - 2000
	Member of the teaching committee	1995 - 2000
	Member of the budget committee	1995 - 2000
	Member of the administration committee	1995 - 2000
	Director of computer resources and information systems	1988 - 2000
	Chair of Computer Science Department	1988 - 2000
	Chair of Mathematics and Computer Science Departments	1988 - 1995

4. b. Work Experience

2007 - present	"Al-Qasemi" Academic College of Education - Baqa El-Gharbiah, Israel. Senior Lecturer A, Pedagogical Supervisor, Computer Consultant, Head of ICT Center, Head of Digital Learning Unit, Head of "Teaching and Learning" Program in the Graduate Studies for M.Ed. Degree, Head of the Graduate Studies for M.Ed. Degree.
1989 - 2018	Ministry of Education, Jerusalem, Israel. Supervisor of Computers in the Arab Schools
2000 - 2007	The Academic Arab College for Education in Israel - Haifa, Israel. Senior Lecturer, Pedagogical Supervisor and Chair of the Department of Computer Science.
1988 - 2000	Beit-Berl College, The Academic Center for Training Arab Teachers, Kfar Saba, Israel. Pedagogical Supervisor, Instructor and Chair of the Departments of Mathematics and Computer Science.
1983 - 1984	St. Gregory's Secondary School, Washington D.C., U.S.A. Mathematics Instructor
1982 - 1988	The American University, Department of Mathematics, Statistics, and Computer Science, Washington D.C. 20016, U.S.A. Lecturer , The American University (82 - 83). Professorial Lecturer , The American University (83 - 84). Instructor , The American University (84 - 85). Assistant Professor , The American University (85 - 88).
1978 - 1982	The Arabic Governmental School, ACRE, Israel Instructor and Coordinator of mathematics instruction for intermediate and secondary levels
1977 - 1981	University of Haifa, Israel Graduate Assistant

5. Scholarly Positions and Activities outside the Institution

Institution	Position or Activity	Years
Ministry of Education, Israel.	Responsible of the computerization and using computers and ICT in teaching and learning in all Arab schools in Israel (approximately 700 schools).	1988 - 2018
	Responsible of the computer and information literacy and computer science teaching in the Arab schools.	
	Member in the committee for informatics standards in the ministry of education	
	Responsible of ethics, values and safe browsing in the internet in the Arab schools	
	Head of a team of almost 50 computer mentors	
	Responsible of professional development of mentors, computer coordinators, teachers and principals in the field of using computers and ICT in teaching and learning in the Arab schools.	
	Initiation, coordinating and carrying out exhibitions of computerized learning materials and digital products of pupils.	
	Initiation, coordinating and carrying out study days and conferences in the field of using computers and ICT in teaching and learning in the Arab schools.	
	Constructing internet sites for Arab schools presenting special initiatives, teaching and learning materials, new technological pedagogical models, new digital tools, special collaborative projects and more.	
Community Activities	Member in the students' scholarships committee in Acre	2002 - 2019
	Head of the education committee for the Arab sector in the municipality of Acre	2008 - 2011
	Member in the education committee for the Arab sector in the municipality of Acre	2004 - 2010
	Member in the committee for collaboration among Arab and Jewish communities in Acre	1997 - 2000

Institution	Position or Activity	Years
	Member in the committee for environmental rehabilitation in Acre	1997 - 1999
	Head of the Scouts Association in Acre	1995 - 1997

6. Participation in Scholarly Conferences

a. International Conferences

* Active participation with **presentations and articles in proceedings**

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
26-27 June, 2023	8 th International Conference on Teacher Education: Passion and Professionalism in Teacher Education	MOFET Institute, Tel Aviv, Israel	Preservice teachers' development in designing mathematics-based programming activities	Lecturer
31 May, 2023	Practical Use of ChatGPT in the Classroom	Zoom Session: Al-Qasemi Academic College of Education, The Smart College in Hebron and SUPMTI University in Morocco.	Artificial Intelligence - Introduction and Applications	Lecturer
18-19 August, 2022	42 nd Istanbul International Conference on "Education, Social Sciences, Humanities and Business Management" (ESSHBM-22)	Istanbul, Turkey	Preparing mathematics preservice teachers for applying metacognitive skills in designing mathematics-based programming activities	Lecturer
26-28 August, 2020	ETE 2020: The 12 th International Conference on Educational Technologies and Education	Athens, Greece	A Trajectory for Advancing the Meta-cognitive Solving of Mathematics-based	Lecturer

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
			Programming Problems	
26-28 August, 2020	ETE 2020: The 12 th International Conference on Educational Technologies and Education	Athens, Greece	Prospective Teachers' Development of Meta-Cognitive Functions in Solving Mathematical-Based Programming Problems with Scratch	Lecturer
1-4 July, 2019	13 th Annual International Conference on Mathematics: Teaching, Theory & Applications	Athens, Greece	Educating mathematics preservice teachers in metacognitive skills	Lecturer & Session Chair
24-26, June, 2019	The 7 th International Conference on Teacher Education: The Story of Innovation in Teacher Education	MOFET Institute, Tel Aviv, Israel	Development of prospective teachers' metacognitive skills while performing, designing and implementing mathematical problems using Scratch	Lecturer
28 April – 1 May, 2019	ICEMST 2019, The International Conference on Education in Mathematics, Science & Technology	Cesme, Turkey	Development of pre-service teachers' perceptions of using metacognitive skills in teaching and learning mathematics	Lecturer & Session Chair
5 – 7 September, 2018	ERME 2018, Fifth European Society for Research in Mathematics Education Topic Conference on Mathematics Education in the Digital Age (MEDA)	Copenhagen, Denmark	Educating Pre-Service Teachers in Metacognitive Activities	Lecturer & Articles reviewer

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
3-8 July, 2018	42 nd Conference of the International Group for the Psychology of Mathematics Education PME42	Umeå, Sweden	The effectiveness of integrating GeoGebra HOTS activities on the development of creative mathematical thinking.	Lecturer & Session Chair
28 April – 1 May, 2018	International Conference on Education in Mathematics, Science & Technology, ICEMST 2018	Marmaris, Turkey	Preparation phases for developing pre-service mathematics teachers' metacognitive thinking skills in learning and teaching.	Lecturer
3-6 July, 2017	13 th International Conference on Technology in Mathematics Teaching, ICTMT-13	Lyon, France	The effect of collaborative computerized learning using geogebra on the development of concept images of the angle among seventh graders	Lecturer
3-6 July, 2017	13 th International Conference on Technology in Mathematics Teaching, ICTMT-13	Lyon, France	Pre-service teachers' preparation as a catalyst for the acceptance of digital tools for teaching mathematics and science	Lecturer
18-21 May, 2017	International Conference on Education in Mathematics, Science & Technology, ICEMST 2017	Ephesus Kusadasi, Turkey	In-service mathematics teachers' integration of ICT as innovative practice	Lecturer
1-5 February, 2017	10 th Congress of European Research in Mathematics Education CERME10	Dublin, Ireland	The development of pre-service teachers' TPACK in the use of digital tools	Lecturer & Reactor

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
24-31 July, 2016	13 th International Congress on Mathematical Education, ICME 13	Hamburg, Germany	Professional Development School as a Catalyst for In-Service Teachers' Integration of ICT	Lecturer
9-10 July, 2015	17 th International Conference on Innovation in Education, ICIE 2015	Prague, Czech Republic	Integrating HOTS Activities with GeoGebra in Pre-Service Teachers' Preparation	Lecturer
25-27 June, 2014	International Conference on New Horizons in Education, INTE 2014	Sakarya University, Paris - France	The Development of College Instructors' Technological Pedagogical and Content Knowledge (TPACK).	Lecturer
9-12 July, 2013	11 th International Conference on Technology in Mathematics Teaching, ICTMT11	The University of Bari Aldo Moro, Bari - Italy	Pre-Service Teachers' Perceptions of the Integration of ICT in the Mathematics Classroom	Lecturer
6-8 November, 2012	7 th International Conference on Interactive Mobile and Computer aided Learning, IMCL 2012	Princess Sumaya University for Technology, Amman – Jordan	Mathematics Teachers' Readiness to Integrate ICT in the Classroom: The Case of Elementary and Middle School Arab Teachers in Israel.	Lecturer
2-4 July, 2012	The 4 th annual International Conference on Education and New Learning Technologies, EduLearn12	Barcelona, Spain	Inter-Disciplinary Phenomena in Social Networking Sites: The Case of the Golden Ratio in the Facebook.	Lecturer

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
7-9 July, 2011	International Conference on Informational Communication Technologies in Education, ICICTE 2011	Rhodes, Greece	From social communication to mathematical discourse in social networking: The case of the Facebook	Lecturer
8-10 July, 2010	International Conference on Informational Communication Technologies in Education, ICICTE 2010.	Corfu, Greece	A Blended Model for Non-Traditional Teaching and Learning of Mathematics	Lecturer
17-18 October, 2009	The Educational Actions in the Twenty First Century – Reality and Challenges	An-Najah University, Nablus, Palestine	Characteristics of Mathematics Learning using the Cellular Phone Among Intermediate School Pupils.	Co-Writer of the article
19-25 July, 2009	iEARN 16 th Annual Conference and 13 th Youth Summit, Under Theme: Innovative Technologies and Cross Cultural Dialogue For Quality Education.	Ifrane, Morocco	The Bridge of Generations Project in Arab Schools in Israel	Poster and partner in the project
22-24 April, 2009	4 th International Conference on Interactive Mobile and Computer aided Learning, IMCL 2009	Princess Sumaya University for Technology, Amman – Jordan	Students' Perceptions of Mathematics Learning Using Mobile Phones.	Lecturer
16-18 April, 2008	3 rd International Conference on Interactive Mobile and Computer aided Learning, IMCL 2008	Princess Sumaya University for Technology, Amman – Jordan	Managing Online Courses: Problems and Worked-Out Solutions, The Case of the Pre-Service Teachers.	Lecturer

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
2-4 September, 1996	Information and Communication Technology Education- Informatics in Teacher Education, Germany – Israeli Symposium	University of Dortmund, Germany	The Computerization of Arab Schools in Israel.	Lecturer
18 June, 1993	Integrating Computers in Teaching	Birzeit University, Palestine	The Use of Technology (Computers and Calculators) in Teaching Mathematics.	Lecturer
23 October, 1992	Curriculum for Teaching Computer Science in Schools	Birzeit University, Palestine	The Curriculum for Teaching Computer Science in Elementary Arab Schools in Israel.	Lecturer
12 March, 1989	The Association of Arab Experts in Engineering and administration	Cairo, Egypt	A Semi-Intelligent Model for Teaching Using Computer.	Lecturer
23 April, 1988	The Mathematical Association of America	Mount Saint Mary's College, Emmetsburg, Maryland, U.S.A.	A Semi-Intelligent User Interface.	Lecturer
25 April, 1987	University of the District of Columbia, Mathematics Faculty Workshop	Washington D.C., U.S.A.	The Use of Computers in Teaching Mathematics.	Lecturer
16 May, 1986	The American University Faculty Colloquium	Washington D.C., U.S.A.	Math Anxiety and Math Achievement: Does Gender make a Difference?	Lecturer
26 April, 1986	The Mathematical Association of America	Fredericksburg, Virginia, U.S.A.	A Semi-Intelligent Computer Assisted Instruction Model.	Lecturer

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
12 April, 1985	The Mathematical Association of America	Hastings, Nebraska, U.S.A.	Mathematics Anxiety Among Arab Students in Israel.	Lecturer

b. Local Conferences

* Active participation with **presentations**

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
6 May, 2015	The Third Annual Research Conference, Issues and Innovations in Learning, Teaching and Teacher Education	Al-Qasemi Academic College of Education, The Research Unit, Baqa El-Gharbia, Israel	Innovations in Computerization and Computer Teaching - Session	Chair of Session
11 February, 2014	The Ninth Conference on Research of Innovation and Learning Technologies on the Name of Chase, Learning in the Technological Era	The Open University, Ranana, Israel	The Teaching Effectiveness of Mathematics Teachers in the Computerized Classroom and the non-Computerized Classroom	Co-Writer of the article and Presentation
2-4 July, 2013	6 th International Conference on Teacher Education: Changing Reality through Education	The MOFET Institute - Research, Curriculum and Program Development for Teacher Educators, Jerusalem - Tel-Aviv, Israel	<ul style="list-style-type: none"> • Social Networking Sites: A Tool for Social, Cultural, and Mathematical Discourse • Pedagogic Training as a Catalyst for Teachers' Integration of ICT • TPACK Workshops as an Incentive to Change College Instructors' 	Lecturer Lecturer Poster

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
			Perceptions and Behavior Regarding the Integration of ICT into Teaching	
20 June, 2013	The Eleventh Annual National Conference MEITAL, New Technologies and Ways of Evaluating Them in Online Teaching and Learning: Directions and Trends in the Higher Education"	The Hebrew University, Jerusalem, Israel	Mathematics Teaching Method of Teachers: A Comparison Between Traditional Environment and Computerized Environment	Poster
29 May, 2013	Conference on Integrating Technology in Practical Training	The Academic Center for Training Arab Teachers, Beit-Berl College, Kfar Saba, Israel	Promoting Computerization Among Training Teachers Through Practical Training	Lecturer
10 December, 2012	Technology, Pedagogy and Policy Conference, Is it Possible to Have Systemic Innovation? The Case of the Computerization Plan: "Adapting the Educational System for the 21 st Century"	The Open University, Ranana, Israel	Would the Computerization Plan Close the Digital Divide?	Lecturer
28 May, 2012	The First Conference on Pedagogical Training, Partnership with Schools: Reality and Expectations – The Model of Professional Development Schools (P.D.S.)	Al-Qasemi Academic College of Education, Baqa El-Gharbia, Israel	Partnership with Schools and Ways to Develop it - Panel	Mem. In Panel
20 May, 2012	The Second Annual Research Conference,	Al-Qasemi Academic	Aspects of Computerization	Chair of Session

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
	Issues and Innovations in Teacher Education	College of Education, The Research Unit, Baqa El-Gharbia, Israel	and Computer Science Teaching - Session	
16 April, 2011	The First Annual Research Conference of the Research Unit	Al-Qasemi Academic College of Education, Baqa El-Gharbia, Israel	Computers - Session	Chair of Session
25-26 January, 2011	The Virtual Conference: "Opening Gates in Teacher Training - Education and Teacher Training in the Era of Globalization"	The MOFET Institute - Research, Curriculum and Program Development for Teacher Educators, Tel-Aviv, Israel	<ul style="list-style-type: none"> • Applets for Teaching Mathematics in the Cellular Phone Environment • A Tour in Internet Site "Internet Sites for Teaching Mathematics Using Technology and History" • A Tour in Internet Site "Visiting Google Sites of Mathematics Computerized Teaching Units" • Forum on "The Cellular Phone in School and Mathematics Classroom: In or Out?" 	<p>Workshop Moderator</p> <p>Lecturer</p> <p>Lecturer</p> <p>Forum Moderator</p>
26-28 October, 2010	Library Administrators Conference, "Breaking the Routine - Libraries in the Era of Change"	The Local Authority Center, The Book and Libraries Center, Hotel	Internet Promotion in the Arab Society	Lecturer

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
		"Nir Etzion", Israel		
1 July, 2009	Computers in Education Conference - Summer 2009: "The Transparent School in the Virtual Era"	Hermlin Ort College, Natania, Israel	Cellular Phone, History and Internet Join Hands in Mathematics Teaching	Lecturer
2 March, 2009	The 13 th Conference of the Israel Internet Association, "On Capital, Information and Leisure InterStyleNet"	Ben Gurion Airport, Tel-Aviv, Israel	Is the Internet Threatening the Arab Community More Than Computers?	Lecturer
26 December, 2008	The Third Conference on Children's Literature	Child Cultural Center in "Al-Aswar" Association, Acre, Israel	Assimilation of Children's Literature Through the Internet	Lecturer
23 June, 2008	Conference of Internet Surfing 7, Technology in Education - Essence or Casing	The MOFET Institute - Research, Curriculum and Program Development for Teacher Educators, Tel-Aviv, Israel	<ul style="list-style-type: none"> • Computerization Practice in Al-Qasemi College • Mathematics Learning Through Activities in the Cellular Phone Environment 	Poster Lecturer
13 February, 2008	The Fourth Multicultural Inter-College Technology Conference, Technology, Multiculturalism and Collaboration	Al-Qasemi Academic College of Education, Center for Technology and Multi-Culturalism Baqa El-Gharbia, Israel	<ul style="list-style-type: none"> • The Project "I am Proud of My City, So I Like Other Cities" • The Project "Teddy Bear" 	Lecturer
22 January, 2008	Conference of The Computer Science Department, Technology,	Al-Qasemi Academic College of Education,	Computerization of the Arab Educational System:	Lecturer

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
	Knowledge and Education	Baqa El-Gharbia, Israel	Status and Future Vision	
15 February, 2007	UNESCO Conference on the 'Digital Divide'	Tel Aviv University, Israel	Computerization of the Arab Schools in Israel: History and Status	Lecturer
28 January, 2007	The Third Multicultural Inter-College Conference, "The Multicultural Puzzle: Online Links"	The MOFET Institute - Research, Curriculum and Program Development for Teacher Educators, Tel-Aviv, Israel	Vision for Existence in a Multicultural Society	Lecturer
31 May, 2005	Conference of Internet Surfing 6, Going Online for Computerized Education: Challenge or Routine?	The MOFET Institute - Research, Curriculum and Program Development for Teacher Educators, Tel-Aviv, Israel	The Distance Learning Center in The Academic Arab College for Education in Israel-Haifa	Poster
22 May, 2005	Conference "Inter-Tarbia 2005" Internet in Education – Jerusalem. The Annual Conference for Computerization in East Jerusalem.	East Jerusalem, Israel	Programs and Learning Materials for Teaching Computer Literacy and Informatics	Lecturer
28-29 March, 2005	The 20 th Annual Conference of Computers in Education, Towards Challenges of the Educational System in the 21 st century	Tel-Aviv, Israel	Learning Communities for Encouraging Reading in the Arab Schools	Poster
12-13 January, 2004	The 19 th Annual Conference of Computers in Education, ICT and Communication	Tel-Aviv, Israel	Internet Learning Patterns in the Arab Sector	Lecturer

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
	Media as Generators of Social Processes			
21-23 October, 2003	International Conference "Challenges for Existence in Multicultural Society"	The Academic Arab College for Education in Israel + UNESCO, Haifa, Israel.	<ul style="list-style-type: none"> • Teaching Computer Literacy in Elementary and Intermediate Schools • Using Electronic Spreadsheet in Teaching Mathematics 	Posters
10-11 December, 2001	The Seventeenth Annual Conference of Computers in Education, Values, Ethics and Technology in Education in the Digital Era	Tel-Aviv, Israel	Heritage and Values in the Internet in Intermediate Schools	Lecturer & Chair of Session
17 May, 2001	Conference "Inter-Tarbia" Internet in Education – Jerusalem. The Annual Conference for Computerization in East Jerusalem.	East Jerusalem, Israel	Internet Culture in the Arab Education	Lecturer
24 December, 2000	Conference of Mentors, ICT Computerization Assimilation Plan in the Educational System: Theory and Practice	Ministry of Education, Science and Technology Administration and Marmanet, Haifa, Israel	The Status of ICT and Internet Plan in the Arab Educational System	Lecturer
9-11 July, 2000	European Commission Workshop on the EUMEDIS Program	Jerusalem, Israel	ICT in Education in the Arab Educational System	Lecturer
6 June, 2000	"Globalization" Conference	The Academic Center for Training Arab Teachers, Beit-	Computerized Databank in Arabic Language in the Internet	Lecturer

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
		Berl College, Israel		
31 May, 2000	Launching Ceremony of the Computerized Databank of Educational Materials for the Arab Population Site named "Ibn Khaldoun"	The Academic Center for Training Arab Teachers, Beit-Berl College, Israel	Presentation of the Computerized Databank of Educational Materials "Ibn Khaldoun" and its Pedagogical Uses	Lecturer
13-15 July, 1999	Teachers' Conference in The Arab Education, "Intelligence, Emotions and Computers - Their Place in Education", The Teachers' Union, Association of Teachers for Advancement in Teaching and Education	Jerusalem, Israel	<ul style="list-style-type: none"> • The Readiness of Teachers to Integrate Computers in Teaching and Models for Computer Applications in School • Workshop to Demonstrate Computerized Teaching-Learning Materials 	Lecturer
27 June - 1 July, 1999	The Third International Conference on Teacher Education, "Almost 2000: Crises and Challenges in Teacher Education", Under the auspices of the Colleges of Education in Israel, Ministry of Education, Department of Teacher Education, The MOFET Institute	Beit-Berl College, Israel	Arabic Databanks in the Internet; Application: A Databank of Learning Materials	Lecturer
7-9 July, 1998	The International Conference of Teachers and Educators in Israel	Haifa, Israel	<ul style="list-style-type: none"> • The Use of Databanks in Curriculum Planning 	Lecturer

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
	and the Diaspora, Education in the Test of Time 4		<ul style="list-style-type: none"> • The Process of Assimilation of Computerization in the Arab Schools 	
1-2 July, 1998	The Fifteenth Annual Conference of Computers in Education, The Virtual Era in Education	Tel-Aviv, Israel	The Difficulties of Constructing an Internet Site for a Databank in Arabic Language	Lecturer
19-20 May, 1998	"Tomorrow 98", The Main Conference for Summarizing Five Years of Activity	Shefayeem, Israel	Developing Computerized Learning Materials in Arabic Language	Lecturer
8-11 January, 1996	The Second Jerusalem International Science and Technology Education Conference on Technology Education for a Changing Future: Theory, Policy and Practice	Jerusalem, Israel	Computers and Computer Education in the Arab Schools in Israel	Lecturer
11 April, 1995	The Twelfth Annual Conference of Computers in Education	Tel-Aviv, Israel	The Computerization Plan in the Arab Educational System	Lecturer
21 March, 1994	The Eleventh Annual Conference of Computers in Education	Tel-Aviv, Israel	Innovative Projects in the Arab Educational System	Lecturer
5 October, 1993	The Second Annual Conference of Teachers and Educators in Israel, Education under the Test of Time	Tel-Aviv University, Israel	The Computer as a Factor for Accelerating Changes in the Arab Educational System	Lecturer
30 March, 1993	The Tenth Annual Conference of	Tel-Aviv, Israel	Integrating Computers in	Lecturer

Date	Name of Conference	Place of Conference	Subject of Lecture	Role
	Computers in Education		Teaching in the Arab Educational System	

c. Organization of Conferences or Sessions

Date	Name of Conference	Place of Conference	Subject of Conference/ Role at Conference/ Comments	Role
24 – 27 December, 2017	International Capacity Building Conference	Antalya, Turkey	Excellence; Innovation; Creativity; and Giftedness	Member of Organizing Committee
17 May, 2009	International Media Conference	Al-Qasemi Academic College of Education, Baqa El-Gharbia, Israel	Children on the Internet - The Wonderful and Crazy World of the Net	Member in the Expert Panel in the Conf. & Lecturer
28 May, 2008	The Second Computerization National Conference, Multicultural Computerized Projects in the Arab Educational System	Ministry of Education, Science and Technology Administration, Nazareth, Israel	Presentation of Special Multicultural Computerized Projects in the Arab Educational System	Conf. Organizer & Lecturer
31 May, 2007	Computerization National Conference, "Curriculums and Learning Materials in the Field of Computerization in Arabic Language"	Ministry of Education, Science and Technology Administration, Nazareth, Israel	Curriculums and Learning Materials in the Field of Computerization and Computer Science in Arabic Language	Conf. Organizer & Lecturer

Date	Name of Conference	Place of Conference	Subject of Conference/ Role at Conference/ Comments	Role
19 May, 2004	Conference - Internet at School and Home	Al-Qasemi Academic College of Education, Baqa El-Gharbia, Israel	Internet in the Arab Schools	Conf. Organizer & Lecturer
17 March, 2004	National Computerization Conference, A Decade for the Computerization Plan in the Arab Schools	Ministry of Education, Science and Technology Administration, Western Galilee College, Akko, Israel	Computerization: From Theory to Practice	Conf. Organizer & Lecturer
7-9 July, 2003	The International Conference of Teachers and Educators in Israel, Education in the Test of Time 5	Jerusalem, Israel	<ul style="list-style-type: none"> • Illustration of Mathematical Concepts Using Electronic Spreadsheet • From Computer knowledge to informatics 	Member of the Conf. Com. & Lecturer

d. Study Days

Date	Name of Study Day	Place of Study Day	Subject of Lecture	Role
22 September, 2016	“Night of Scientists”	Al-Qasemi Academic College of Education	Using mobile digital tools for analyzing and investigating mathematics and science concepts and phenomena	Presenting lectures workshops for parents, teachers and pupils
27 April, 2015	The Vision of Ministry of Education for the Future of	Al-Qasemi Academic College of Education	Presenting the New Internet Sites of the Ministry of Education in the Field of	Study Day Organizer & Lecturer

Date	Name of Study Day	Place of Study Day	Subject of Lecture	Role
	Computerization in the Education System		Computerized Pedagogy	
29 December, 2014	The Portfolio as an Assessment Tool	Al-Qasemi Academic College of Education	Developing an Electronic Portfolio in Moodle	Lecturer
20-21 April, 2014	The Use of Digital Content in Practical Training	Al-Qasemi Academic College of Education	The Educational Content Site and Computerized Lesson Plans	2 Study Days Organizer & Lecturer
11 March, 2013	ICT Integration in Education and Teaching	Al-Qasemi Academic College of Education	Computerization of Arab Schools in Haifa Region	Lecturer
4 May, 2012	Scientific Observation on the Subject: Human Impact on Nature	"Hamoshava" High School, Zekhron Yakov	Two lectures: Using Cellular Phones in Mathematics Learning Using Social Networks in Mathematics Learning	Lecturer
22 February, 2012 20:00-21:30	Online Meeting: "Teaching Mathematics in Digitized Environments", Using Elluminate Platform	The Section for Online Teaching and Learning Environments, MOFET, Tel-Aviv	Non-Traditional Mathematics Teaching Methods	Lecturer & Meeting Moderator
21 February, 2012	Achievements and Challenges in Implementing the Plan for the Adjustment of Education Colleges to the 21st Century	Al-Qasemi Academic College of Education	ICT in Schools and its Integration in Practical Training	Lecturer
15 February, 2012	The Program of: "Computer for Each Teacher"	Teaching Staff Development	Computerized Learning in the Network, an Online	Lecturer

Date	Name of Study Day	Place of Study Day	Subject of Lecture	Role
		Center, East Jerusalem	Learning Mathematics Unit as a Model	
23 January, 2012	Computerized Projects – Modern Teaching Methods	Al-Qasemi Academic College of Education	Copyright and Publishing	Lecturer
4-6 October, 2011	Preparation Days for Opening the Academic Year 2011-2012 in Al-Qasemi Academic College of Education	Tal-Hay College	Al-Qasemi Academic College of Education Preparation for Computerization in the 21st Century	Lecturer
16 May, 2011	Mathematics Thinking and Social Networks	Al-Qasemi Academic College of Education	The Use of Facebook in Mathematics Education	Lecturer
12 May, 2011	Internet Opportunities and Dangers	Al-Qasemi Academic College of Education	Copyright and Creative Commons	Lecturer
11 May, 2011	Coping Locally with Social Networks	Department of Interior Security, Sajur Village	Violence in Social Networks	Lecturer
2 May, 2011	Seminar on the Development of Digital Tools for Mathematics Education, The Center for Alternatives in Education	University of Haifa	Using Cellular Phones in Mathematics Education	Lecturer
9 March, 2011 20:00-21:30	Online Meeting: "Impressions from Local and Abroad Conferences ", Using Elluminate Platform	The Section for Online Teaching and Learning Environments, MOFET, Tel-Aviv	Personal Experience from Participating in Conferences	Lecturer

Date	Name of Study Day	Place of Study Day	Subject of Lecture	Role
3 January, 2011	Computerization of Practical Training	Al-Qasemi Academic College of Education	Computerized Projects in Practical Training	Lecturer
30 November, 2010	A Visit of the Administration of the Teacher Education Department in the Ministry of Education	Al-Qasemi Academic College of Education	Participating in the Visit and Presenting Computerized projects for Practical Training	Lecturer
27 May, 2010	National Study Day of the Israeli Internet Association, "Promoting Internet in the Arab Community"	"Ashkol Payes", Nazareth	Results of an Accompanying Research for the Project of Promotion Internet in the Arab Community	Study Day Organizer & Lecturer
16 May, 2010	Computerized Educational Horizon - iEARN	The Hall of Alhambra Hotel, East Jerusalem	Evaluating the Presented Projects	Study Day Organizer
12 May, 2010	Interactive Classrooms in the Schools of Nazareth	Galilee Urban High School, Education Center Named Tawfiq Ziad, Nazareth	ICT Pedagogical Models, Especially Interactive Whiteboards	Study Day Organizer & Lecturer
17 March, 2010	The Synthesis of Experience, Innovation and Technology in Teaching Computer Science	Al-Qasemi Academic College of Education	Issues in Teaching Computer Science in Schools	Lecturer
2 December, 2009	Computerization of the Education System in Israel: Between Conservatism and Progress	Center for Academic Studies, Or Yehuda	Successes and Failures of Computerization in the Arab Schools in Israel	Lecturer
24 May, 2009	Beauty of Mathematics and Computer Science	Sakhneen College	Learning Mathematics Using Mobile Phones	Lecturer

Date	Name of Study Day	Place of Study Day	Subject of Lecture	Role
24 March, 2009	Computer Science - Applications and Ways for Success	Al-Qasemi Academic College of Education	From Mathematics to Computer Science	Lecturer
28 January, 2009 20:00-21:30	Online Meeting Series Using Interwise Platform	MOFET, Tel-Aviv	Modern Computerized Pedagogical Models	Lecturer
17 November, 2008	Computerization and Use of ICT in the New Outline	MOFET, Tel-Aviv	A Model for ICT Studies in Al-Qasemi College - Following the Ariav Outline	Lecturer
6-7 October, 2008	Preparation Days for Opening the Academic Year 2008-2009 in Al-Qasemi Academic College of Education	Jerusalem	Modern Online Computerized Learning Environments	Lecturer
28 April, 2008	Integrating Spreadsheets Mathematics Teaching	Al-Qasemi Academic College of Education	Online Computerized Environment for Teaching Mathematics	Lecturer
5 March, 2008	Preparations To Run Computerization Program in the Year 2008	Ministry of Education, Nazareth	Ubiquitous Computing	Lecturer
10 February, 2005	Good to Know - Informatics Ethics and Values	Ministry of Education, Tel-Aviv University	Book Carnival Project for Encouraging Reading	Lecturer
25 August, 1999	Librarians in the Arab Sector in the New Millennium	Association of Special Libraries and Information Centers in Israel, Gordon College, Haifa	The Computerized Databank of Educational Materials in Arabic by the name of "Ibn Khaldoun"	Lecturer

7. Research Grants

Role in Research/ Publications	Co- Researchers	Topic	Funded by/ Amount	Year
PI Project Grant	Huda Shayeb	Implementation of innovative pedagogy among the academic staff for the year 2023-2024	The Ministry of Education, Al-Qasemi Academic College of Education Amount: 312,567 NIS	2023-2024
Co-PI Research Grant	Wajeeh Daher, Huda Shayeb, Otman Jaber	Using digital video recordings in class activities for enhancing mathematics pre-service teachers' reflective thinking	Al-Qasemi Academic College of Education, The Practical Training Unit, Israel Amount: 25,000 NIS	2022-2023
Co-PI Pedagogical Initiative https://ictqsmacademy7.wixsite.com/webside-4	Awawdeh Shahbari, Wajeeh Daher	Applied dynamic model based on technological tools to close learning gaps in mathematics: an example of three study units	Academic College of Education, The graduate studies – Mathematics Education Unit, Israel Amount: 9,000 NIS	2021-2022
Co-PI Pedagogical Initiative https://sites.gsm.ac.il/newhope/	Wafa Zidan – The Academic Arab College for Education in Israel	A digital platform for dealing with the phenomenon of violence in the Arab society	“Prizma” Fund - The Ministry of Education, National Digital Israel Initiative, The MOFET Institute Amount: 60,000 NIS	2021-2022
PI Project Grant		Establishment and Operation of a "Digital Learning Unit" for the year 2020-2021	The Ministry of Education, Al-Qasemi Academic College of Education Amount: 255,000 NIS	2020-2021

Role in Research/ Publications	Co-Researchers	Topic	Funded by/ Amount	Year
Co-PI Pedagogical Initiative https://maisabofoul.wixsite.com/websit-e-2	Awawdeh Shahbari, Wajeeh Daher	Integrating digital tools in activities that promote mathematical, scientific and technological literacy	Academic College of Education, The graduate studies – Mathematics Education Unit, Israel Amount: 8,000 NIS	2020-2021
Co-PI Pedagogical Initiative https://ictqsmacademy7.wixsite.com/initiatives	Juhaina Awawdeh Shahbari, Wajeeh Daher	Development of Mathematical, scientific and technological literacy in various populations (Math teachers, students for teaching mathematics and mathematics pupils)	Al-Qasemi Academic College of Education, The graduate studies – Mathematics Education Unit, Israel Amount: 6,000 NIS	2019-2020
PI Project Grant https://mtmm.m-dbooks.com/	Enas Qaedan	Innovation arena: A diagnostic system for teachers' TPACK knowledge, for pre-service teachers in colleges	The Ministry of Education, Al-Qasemi Academic College of Education Amount: 283,500 NIS	2017-2019
PI Research Grant Publication: [See: Ca2, Ca4, Ca5, E1, E2, E3]	Juhaina Awawdeh Shahbari, Wajeeh Daher, Otman Jaber	Development of prospective teachers' meta-cognitive skills while performing, designing and implementing mathematical problems using Scratch	Al-Qasemi Academic College of Education, The graduate studies – Mathematics Education Unit, Israel Amount: 10,000 NIS	2018 - 2019

Role in Research/ Publications	Co- Researchers	Topic	Funded by/ Amount	Year
PI Pedagogical Initiative Publication: [See: Ca6, E4, E5] https://sites.google.com/view/metascratch/	Otman Jaber	Designing Meta-Cognitive Learning Activities to Develop Mathematical Concepts through Graphical Programming in Scratch Environment	Al-Qasemi Academic College of Education, The Teacher Training Unit, Israel Amount: 5,000 NIS	2018-2019
Co-PI Pedagogical Initiative	Khaled Mahmood + Tawfik Sayyedi	Scientific Phenomena in the Koran	Al-Qasemi Academic College of Education, The Graduate Studies Amount: 6,000 NIS	2017-2018
PI Pedagogical Initiative	Tawfik Sayyedi + Mahmoud Omari + Mohammad Watad	Teaching unit on the subject "Human values in Islamic religion"	Al-Qasemi Academic College of Education, The Research Unit, The ICT Center, The Islamic Department, Israel Amount: 18,000 NIS	2016-2017
PI Project Grant	Asmaa Ganayem	Support for Computerization and 21 st Century Skills in Colleges for Teacher Training in the Academic year 2015-2016 - Advanced Model	Department of Teacher Education at the Ministry of Education, Al-Qasemi Academic College of Education Amount: 324,000 NIS	2015–2016

Role in Research/ Publications	Co-Researchers	Topic	Funded by/ Amount	Year
PI Research Grant Publication: [See: Ca11, E8, E10, F1] https://sites.google.com/site/ictmath2016/home	Otman Jaber	The Development of Pre-service Teachers' TPACK in the Use of Digital Tools	Al-Qasemi Academic College of Education, The Research Unit, Israel Amount: 10,000 NIS	2015 - 2016
PI Pedagogical Initiative Publication: [See: Ca8] https://sites.google.com/site/colearning2016/projects	Wajeeh Daher + Otman Jaber	Promoting Breakthrough Collaborative Learning Based on Mobile Technologies in the Field of Mathematics Teaching	Al-Qasemi Academic College of Education, The Research Unit, The Excellence Unit, Israel Amount: 30,000 NIS	2015-2016
PI Pedagogical Initiative https://sites.google.com/site/mathbed2015/home	Otman Jaber + Wajeeh Daher	Special Practical Training that Emphasizes Personal Projects Based on Computerized Learning Units that Promote Meaningful Learning, Collaborative Learning and Higher-Order Mathematical Thinking Strategies	Al-Qasemi Academic College of Education, The Research Unit, The Excellence Unit, Israel Amount: 30,000 NIS	2014-2015
Co-PI Pedagogical Initiative Publication: [See: C10, E11] https://sites.google.com/s	Wajeeh Daher + Otman Jaber	Using GeoGebra Environment and Applets to Promote the Development of Higher-Order Mathematical Thinking Strategies	Al-Qasemi Academic College of Education, The Research Unit, The Excellence Unit, Israel Amount: 25,000 NIS	2013-2014

Role in Research/ Publications	Co-Researchers	Topic	Funded by/ Amount	Year
ite/hocsmath2014/				
Co-PI Research Grant Publication: [See: Ca11, E14, F2]	Asmaa Ganayem + Wajeeh Daher	The Development of College Instructors' Technological Pedagogical and Content Knowledge	The MOFET Institute - Research, Curriculum and Program Development for Teacher Educators, Tel-Aviv, Israel Amount: 30,000 NIS	2012-2014
PI Pedagogical Initiative https://sites.google.com/site/guidegsites/	Rawan Anaboosy	Development of the site: "The Assistant for Sites Construction Using Google Sites"	Al-Qasemi Academic College of Education, Graduate Studies (M.Ed.), Israel Amount: 15,000 NIS	2012-2013
PI Pedagogical Initiative https://sites.google.com/site/tmathsite1/	Wajeeh Daher + Otman Jaber	Development of the site: "The Assistant for the Mathematics Teacher"	Al-Qasemi Academic College of Education, The Research Unit, The Excellence Unit, Israel Amount: 25,000 NIS	2012-2013
PI Pedagogical Initiative https://sites.google.com/site/ictmath2010/hndsaa-1	Wajeeh Daher + Otman Jaber	Professional Development of Mathematics Teacher Trainers in the Frame of the Practical Training through the Development of Computerized Lesson Plans and Teaching Them	Al-Qasemi Academic College of Education, The Research Unit, The Excellence Unit, Israel Amount: 25,000 NIS	2011-2012

Role in Research/ Publications	Co-Researchers	Topic	Funded by/ Amount	Year
PI Pedagogical Initiative https://www.qsm.ac.il/articles/352/مركز_تكنولوجيا_المعلومات_والاِتصالات_ICT	Asmaa Ganayem + Abeer Abed	Development of Online Learning Units by Pedagogical Supervisors in the Practical Training	Al-Qasemi Academic College of Education, The Research Unit, ICT Center, Israel Amount: 12,000 NIS	2011-2012
Co-PI Research Grant Publication: [See: Ca14, E16, F3]	Wajeeh Daher	In-service and Pre-service Arab Mathematics Teachers' Attitudes and Readiness to Integrate ICT in Teaching	Al-Qasemi Academic College of Education, The Research Unit, Israel Amount: 15,000 NIS	2011-2012
Co-PI Pedagogical Initiative Publication: [See: Ca15, E17]	Wajeeh Daher	Using Social Networks Sites for Teaching Mathematics Among Pupils	Al-Qasemi Academic College of Education, The Research Unit, Israel Amount: 15,000 NIS	2011-2012
Co-PI Project Grant Research Grant	Asmaa Ganayem + Wajeeh Daher	Planning and Carrying out a Three-year plan for Preparing the College for Computerization in the 21 st Century	Department of Teacher Education at the Ministry of Education, Al-Qasemi Academic College of Education Amount: 500,000 NIS	2011-2014
Co-PI Pedagogical Initiative Publication: [See: Ca15, D2, E18]	Wajeeh Daher	Using Facebook for Teaching Mathematics	Al-Qasemi Academic College of Education, The Research Unit, Israel Amount: 15,000 NIS	2010-2011
PI	Wajeeh Daher + Otman Jaber	Using Computerized Lessons Recording for	Al-Qasemi Academic College of	2010-2011

Role in Research/ Publications	Co-Researchers	Topic	Funded by/ Amount	Year
Pedagogical Initiative		Promoting the Integration of ICT in Mathematics Teaching	Education, The Research Unit, Ministry of Education, Israel Amount: 15,000 NIS	
PI Pedagogical Initiative http://users.qsm.ac.il/ICTinMed	Oleg Telshin	Interdisciplinary Computerized Learning Environments in the Subjects: Islam Religion, Arabic Language and Mathematics	Al-Qasemi Academic College of Education, Graduate Studies (M.Ed.), Israel Amount: 10,000 NIS	2010-2011
PI Pedagogical Initiative Publication: [See: E19] http://users.qsm.ac.il/ICTMath	Wajeeh Daher + Otman Jaber	Computerized Learning Units based on Non-Traditional Methods for Teaching Mathematics	Al-Qasemi Academic College of Education, The Research Unit, Ministry of Education, Israel Amount: 15,000 NIS	2009-2010
Co-PI Pedagogical Initiative Publication: [See: D3] http://users.qsm.ac.il/IslamMath	Wajeeh Daher + Otman Jaber	Mathematics in Islamic Eyes	Al-Qasemi Academic College of Education, The Research Unit, Ministry of Education, Israel Amount: 25,000 NIS	2008-2009
PI Pedagogical Initiative	Asmaa Ganayem	E-Unit Platform: A Platform for Developing Internet Computerized Learning Units in Three Languages: Arabic, Hebrew and English	Al-Qasemi Academic College of Education, The Research Unit, ICT Center, Ministry of Education, Israel Amount: 20,000 NIS	2008-2009

Role in Research/ Publications	Co-Researchers	Topic	Funded by/ Amount	Year
Co-PI Research Grant Pedagogical Initiative Publication: [See: Ca12, E20, F4] http://users.qsm.ac.il/Cell Math	Wajeeh Daher	Teaching Mathematics with the Mobile Phone: In-service and Pre-service Teachers' Instructional Behavior and Decisions	Al-Qasemi Academic College of Education, The Research Unit, Ministry of Education, Israel Amount: 20,000 NIS	2008-2009
Co-PI Research Grant Pedagogical Initiative Publication: [See: Ca16, Ca17, Ca18, D1, E21, F5] http://users.qsm.ac.il/Cell Math	Wajeeh Daher	Learning Mathematics Through Activities in the Cellular Phone Environment	The MOFET Institute - Research, Curriculum and Program Development for Teacher Educators, Tel-Aviv, Al-Qasemi Academic College of Education, The Research Unit, Ministry of Education, Israel Amount: 40,000 NIS	2007-2009
Co-PI Research Grant Project Grant	Prof. Gustavo Mesh - Univ. of Haifa	Promoting Internet in the Arab Society through: Study days, workshops for parents, developing teaching materials, constructing internet sites, and more. The project was accompanied with research.	Israel Internet Association Amount: 65,000 NIS in 2008 95,000 NIS in 2009	2007-2010
PI Project Grant		Developing Courses for Distance Learning and Establishing the	The Academic Arab College for Education in Israel -	2003 - 2004

Role in Research/ Publications	Co-Researchers	Topic	Funded by/ Amount	Year
		Distance Learning Center in the College	Haifa, Ministry of Education, Israel Amount: 250,000 NIS in 2003 250,000 NIS in 2004	
PI Project Grant Publication: [See: D4]		Establishing the Center for Developing Computerized Data Banks in Arabic Language on the Internet. Construction of the Data Bank of Learning Materials for the Arab Population in Israel on the name of Iben Khaldoun	Ministry of Education, Beit-Berl College, The Academic Center for Training Arab Teachers, Israel Amount: 250,000 NIS in 1998 600,000 NIS in 1999	1997 - 2000
PI Project Grant Publication: [See: B6]		Developing a general education course in mathematics: Finite Mathematics with Applications. Planning the course, writing a textbook and developing a courseware accompanying the textbook	The American University, Washington D.C., U.S.A. Amount: 4,000 \$	1987
PI Research Grant		The Integration of Computers in Teaching in Israel	The American University, Washington D.C., U.S.A. Amount: 3,000 \$	1984

8. Scholarships, Awards and Prizes

Purpose of Scholarship/Award/Prize	Funded by	Amount	Year
Support for presenting an article in an International Conference:	Al-Qasemi Academic	600 \$	2022

Purpose of Scholarship/Award/Prize	Funded by	Amount	Year
Publication [See: E1]	College of Education, Israel		
Support for presenting an article in an International Conference: Publication [See: E2, E4]	Al-Qasemi Academic College of Education, Israel	1,800 \$	2019
Support for presenting an article in an International Conference: Publication [See: E5, E6, E7]	Al-Qasemi Academic College of Education, Israel	2,400 \$	2018
Support for presenting an article in an International Conference: Publication [See: E8, E9, E10, E11]	Al-Qasemi Academic College of Education, Israel	1,600 \$	2017
Support for presenting an article in an International Conference: Publication [See: E12]	Al-Qasemi Academic College of Education, Israel	800 \$	2016
Recognition of my contributions and efforts in advancing the project named “Ages Bridge” that brings together senior citizens with their grandchildren in a mixed traditional and technological environment.	Ministry for Social Equality, Israel	Certificate	2016
Support for presenting an article in an International Conference: Publication [See: E13]	Al-Qasemi Academic College of Education, Israel	800 \$	2015
Support for presenting an article in an International Conference: Publication [See: E14]	Al-Qasemi Academic College of Education, Israel	800 \$	2014
Support for presenting an article in an International Conference: Publication [See: E15]	Al-Qasemi Academic College of Education, Israel	800 \$	2013

Purpose of Scholarship/Award/Prize	Funded by	Amount	Year
The College Administration Prize - Distinguished Lecturer in the Faculty of Education	Al-Qasemi Academic College of Education, Israel	Certificate + Gift	2013
Support for presenting an article in an International Conference: Publication [See: E16, E17]	Al-Qasemi Academic College of Education, Israel	1,100 \$	2012
The Head of the College Prize - Distinguished Pedagogical Supervisor in the College	Al-Qasemi Academic College of Education, Israel	Certificate + Gift	2012
Support for presenting an article in an International Conference: Publication [See: E18]	Al-Qasemi Academic College of Education, Israel	1,000 \$	2011
Support for presenting an article in an International Conference: Publication [See: E19]	Al-Qasemi Academic College of Education, Israel	1,000 \$	2010
Support for presenting an article in an International Conference: Publication [See: E21]	Al-Qasemi Academic College of Education, Israel	500 \$	2009
Support for presenting an article in an International Conference: Publication [See: E22]	Al-Qasemi Academic College of Education, Israel	300 \$	2008
The Head of the College Prize - Distinguished Pedagogical Supervisor in the College	Al-Qasemi Academic College of Education, Israel	Certificate + Gift	2008
Computer Graphics Competition at the American University	The American University, Washington D.C., U.S.A.	Second Place	1984
Grants for Students of PhD (Hurst Fellowship & Hall of Nations)	The American University,	6,000 \$	1982, 1983, 1984

Purpose of Scholarship/Award/Prize	Funded by	Amount	Year
	Washington D.C., U.S.A.	(2,000 \$ each year)	
President's Award for Excellence in Academic Studies.	The State of Israel, The Office of the State President	8,000 IS	1979
Academic Excellence Award for the Highest Average at Haifa University.	University of Haifa, Israel	10,000 IS	1978

9. Teaching

a. Courses Taught in Recent Years

Year	Name of Course	Type of Course	Degree	Number of Students
2020 - present	Use of technological tools in academic studies	Lecture	B.Ed.	Approx. 20 students each year
2018 - present	Technological Pedagogical Models in Teaching, Learning and Assessment Processes	Lecture	B.Ed.	Approx. 20 students each year
1988 - present	Teaching Mathematics, Computer Literacy and Computer Science	Pedagogical Workshop	B.Ed.	Approx. 30 students each year
1988 - present	Practical Training in Mathematics and Computers for 3 rd year students	Practicum	B.Ed.	Approx. 30 students each year
2010- present	Teaching and Learning in a Highly Technological Environment	Lecture	M.Ed.	Approx. 30 students each year

Year	Name of Course	Type of Course	Degree	Number of Students
2012-present	Teaching and Learning of Mathematics in a Highly Technological Environment	Lecture	M.Ed.	20 - 25 students each year
2012-2013	ICT Collaborative Learning of Mathematics	Seminar	M.Ed.	18 students
2007 - 2015	Didactics of Teaching Computers	Lecture	B.Ed.	Approx. 30 students each year
2000 - 2007	Issues in the Assimilation of Computer Literacy	Seminar	B.Ed.	Approx. 25 students each year
1992 - 1998	Development of Mathematical Thinking	Lecture	B.Ed.	Approx. 25 students each year
1990 - 2000	Didactics of Teaching Computer Literacy and Computer Science	Seminar	B.Ed.	Approx. 20 students each year
1990 - 2000	Didactics of Teaching Mathematics	Seminar	B.Ed.	Approx. 20 students each year
1989 - 1995	Principles of Programming Languages	Lecture	B.Ed.	Approx. 20 students each year
1988 - 2000	Introduction to Computer Science in Pascal Environment	Lecture / Workshop in Computer Lab	B.Ed.	Approx. 20 students each year
1988 - 1997	Set Theory	Lecture	B.Ed.	Approx. 25 students each year
1988 - 1995	Linear Algebra	Lecture	B.Ed.	Approx. 25 students each year
1988 - 1995	Differential and Integral Calculations	Lecture	B.Ed.	Approx. 25 students each year

b. Courses that I Developed for the College

Year	Name of Course	Type of Course	Degree
2011	Change Leaders in Mathematical Communities	Lecture	M.Ed.
2011	Using Digital Tools in Technological Learning Environment	Lecture	B.Ed.
2007	Introduction to Computer Literacy	Lecture	B.Ed.
2007	Integrating Technological Pedagogical Models in Education	Lecture	B.Ed.
2004 - 2007	Pedagogical Initiatives as Change Accelerators	Lecture	M.Ed.
2004 - 2007	Integrating the Internet in Teaching	Lecture	M.Ed.
2004 - 2007	Pedagogical Initiatives as Change Accelerators	Lecture	M.Ed.

c. Supervision of Graduate Students

Name of Student	Title of Final Projects / Co-Supervisor	Degree	Date of Completion	Student's Achievement
Israa Ismael	The effect of using Excel spreadsheet in teaching on the motivation of eighth graders for learning a unit on statistics and their attitudes toward using technology in learning mathematics	M.Ed. Mathematics Education	December 2016	88
Hiba Kaa'dan	The Effect of the Application of the Computerization Plan in the Year 2014-2015 on the Attitudes of Mathematics Teachers towards the Integration of ICT in Teaching	M.Ed. Mathematics Education	March 2016	90

Name of Student	Title of Final Projects / Co-Supervisor	Degree	Date of Completion	Student's Achievement
	in Arab Schools in the Haifa Region.			
Danya Abo Mokh	The Effect of Using ICT-Based Activities that Develop Higher-Order Thinking Strategies on the Development of Creative Mathematical Thinking Among Higher Achievers Ninth Graders Pupils	M.Ed. Mathematics Education	December 2015	95
Samah Mahajne	Collaborative Computerized Learning Using GeoGebra and the Development of Mental Images of the Angle Concept Among Seventh Graders Pupils / Dr. Wajeeh Daher	M.Ed. Mathematics Education	November 2014	93
Jihan Farhat	Characteristics of Pupils' Emotions in Intermediate School when Carrying out Computer-Based Collaborative Mathematics Activities in GeoGebra Environment / Dr. Wajeeh Daher	M.Ed. Mathematics Education	November 2014	90
Hadaya E'rou	The Role of the Story in Providing the Circle Concept and Improving the Attitudes of Ninth Graders Special Pupils Towards Mathematics Learning	M.Ed. Mathematics Education	November 2014	80
Mahmood Asaad	The Contribution of Using Online Forums with Intermediate School Pupils on the Development of the Interaction Among them and their Mathematical Writing / Dr. Wajeeh Daher	M.Ed. Teaching & Learning of Mathematics	October 2013	90
Nasreen Watad	The Effect of Learning Simple Fractions in Applets Rich Environment on Emotional Aspects Among Fifth Graders Pupils /	M.Ed. Teaching & Learning of Mathematics	October 2013	92

Name of Student	Title of Final Projects / Co-Supervisor	Degree	Date of Completion	Student's Achievement
	Dr. Wajeeh Daher			
Feryal Hout	The Effect of Learning Using Interactive Board on the Students' Number Understanding in the Elementary School / Dr. Wajeeh Daher	M.Ed. Teaching & Learning of Mathematics	October 2013	92
Nahla Khateeb	The Contribution of Using Applets Rich Environment on the Mental Images of Multiplication and Division Among Third Graders Pupils / Dr. Wajeeh Daher	M.Ed. Teaching & Learning of Mathematics	October 2013	93
Hadeel Masalha	Adjusting Mathematical Activities for Preferred Learning Styles of Pupils with Learning Difficulties in the Individualized Mathematics Teaching Hour and its Contribution for Improving their Attitudes Towards and Achievements in Mathematics / Dr. Wajeeh Daher	M.Ed. Teaching & Learning of Mathematics	October 2013	93

d. Development of Degree Programs Approved by the Council for Higher Education

Degree	Title of Program	Name of Academic Institution	Year
M.Ed.	Co-writer of the program for Mathematics Education	Al-Qasemi Academic College of Education - Baqa El-Gharbiah, Israel.	2010 – 2012
M.Ed.	Co-writer of the program for Teaching and Learning	The Academic Arab College for Education in Israel - Haifa, Israel	2004 – 2007

Degree	Title of Program	Name of Academic Institution	Year
B.Ed.	Teaching Mathematics and Computer Science in Intermediate Schools	The Academic Arab College for Education in Israel - Haifa, Israel	2000 – 2002
B.Ed.	Teaching Mathematics and Computer Science in Intermediate Schools	Beit-Berl College, The Academic Center for Training Arab Teachers, Israel	1991 – 1994

PUBLICATIONS

A. Theses and Ph.D. Dissertation

Title	Date	Pages	Supervisor	Degree
Semi-Intelligent Computer Assisted Instruction Model [English]	November 1985	196	Prof. Mary Gray The American University in Washington D.C., U.S.A.	Ph.D. Mathematics Education
Mathematics Anxiety Among Arab Pupils in Israel [Hebrew] [See: Ca1]	May 1982	50	Prof. Sami Mare'i University of Haifa, Israel	M.A. Mathematics Education
The Simplicial Approximation Theorem in Algebraic Topology [Hebrew]	December 1981	120	Prof. Ezo Wiseman & Dr. Eliaho Katz University of Haifa, Israel	M.A. Mathematics

B. Text Books

1.	Baya'a, N & Shahtoot, B. (2003). <i>The Word Processor Word 2000 at School and Home</i> . Nazareth, Israel: "Al-Shorook" Publisher. [164 Pages] [Arabic]
2.	Baya'a, N & Mahameed, A. (2003). <i>The Spreadsheet Excel at School and Home</i> . Nazareth, Israel: "Al-Shorook" Publisher. [181 Pages] [Arabic]
3.	Baya'a, N & Shahtoot, B. (2002). <i>The Presentation Generator PowerPoint at School and Home</i> . Nazareth, Israel: "Al-Shorook" Publisher. [103 Pages] [Arabic]
4.	Baya'a, N & Shahtoot, B. (2000). <i>The Word Processor Word 97 at School and Home</i> . Kfar Saba, Israel: The Academic Center for Training Arab Teachers, Beit-Berl College. [224 Pages] [Arabic]
5.	Baya'a, N & Shahtoot, B. (1998). <i>The Word Processor Word 6.0 at School and Home</i> . Kfar Saba, Israel: The Academic Center for Training Arab Teachers, Beit-Berl College. [222 Pages] [Arabic]
6.	Baya'a, N, Gray, M, Barron, A & Enayat, A. (1989). <i>Finite Mathematics with Applications</i> . Washington, D.C.: The American University. [329 Pages]

C. Articles in Refereed Journals

a. International Journals

1. *Daher, W, Baya'a, N, & Jaber, O. (2023). Mathematics preservice teachers' preparation in designing mathematics-based programming activities rich in metacognitive skills. *International Journal of Emerging Technologies in Learning (iJET)*, 18(6), 71-82.
<https://doi.org/10.3991/ijet.v18i06.36965>
Impact Factor according to SJR-SCImago: **Q2**
2. *Baya'a, N., Daher, W., & Mahagna, S. (2022). Technology-Based Collaborative Learning for Developing the Dynamic Concept of the Angle. *Emerging Science Journal (ESJ)*, 6(1), 118-127.
<https://doi.org/10.28991/ESJ-2022-06-01-09>
Impact Factor according to SJR-SCImago: **Q1**
3. *Daher, W., Baya'a, N., & Jaber, O. (2022). Understanding prospective teachers' task design considerations through the lens of didactical situation. *Mathematics*, 10(3), 417.
<https://doi.org/10.3390/math10030417>
Impact Factor according to Scopus: **2.2**, JCR category rank: **Q1**
4. *Daher, W., Baya'a, N., & Anabousy, A. (2021). Emotions and Self-efficacy as Mediators of Pre-Service Teachers' Adoption of Digital Tools. *Emerging Science Journal (ESJ)*, 5(5), 636-649.
<https://doi.org/10.28991/esj-2021-01301>
Impact Factor according to SJR-SCImago: **Q1**
5. *Daher, W., Baya'a, N., Jaber, O., & Shahbari, A. J. (2020). A Trajectory for Advancing the Meta-Cognitive Solving of Mathematics-Based Programming Problems with Scratch. *Symmetry*, 12(10), 1627.
<https://doi.org/10.3390/sym12101627>
Impact Factor according to SJR-SCImago: **Q2**
6. *Shahbari, A. J., Daher, W., Baya'a, N., & Jaber, O. (2020). Prospective Teachers' Development of Meta-Cognitive Functions in Solving Mathematical-Based Programming Problems with Scratch. *Symmetry*, 12(9), 1569.
<https://doi.org/10.3390/sym12091569>
Impact Factor according to SJR-SCImago: **Q2**
7. *Daher, W., Baya'a, N., Anabousy, A., & Jaber, O. (2019). Development of Pre-service Teachers' Perceptions of Using Metacognitive Skills in

Teaching and Learning Mathematics. *The Eurasia Proceedings of Educational and Social Sciences (EPESS)*, 14, 109 – 116.

8. *Baya'a, N., Daher, W., & Anabousy, A. (2019). The Development of In-Service Mathematics Teachers' Integration of ICT in a Community of Practice: Teaching-in-Context Theory. *International Journal of Emerging Technologies in Learning (iJET)*, 14(1), 125-139.
<https://doi.org/10.3991/ijet.v14i01.9134>
Impact Factor according to SJR-SCImago: **Q2**
9. *Daher, W., Baya'a, N., Jaber, O., & Anabousy, A. (2018). Developing Pre-service Mathematics Teachers' Metacognitive Thinking for Learning and Teaching with Mobile Technology. *The Eurasia Proceedings of Educational & Social Sciences (EPESS)*, 9, 245-255.
10. *Daher, W., Baya'a, N., & Anabousy, R. (2018). In-service mathematics teachers' integration of ICT as innovative practice. *International Journal of Research in Education and Science (IJRES)*, 4(2), 534-543.
Doi:10.21890/ijres.428945
11. *Daher, W. & Baya'a, N. (2015). Integrating HOTS Activities with GeoGebra in Pre-Service Teachers' Preparation. *World Academy of Science, Engineering and Technology, International Journal of Social, Behavioral, Educational, Economic, Business and Industrial Engineering*, 9(7), 2441-2444.
<https://doi.org/10.5281/zenodo.1108022>
12. *Baya'a, N & Daher, W. (2015). The development of college instructors' technological pedagogical and content knowledge, *Procedia - Social and Behavioral Sciences*, 174(12), 1166-1175.
<http://dx.doi.org/10.1016/j.sbspro.2015.01.733>
Impact Factor according to SJR-SCImago: **0.158 (2015)**
13. *Daher, W & Baya'a, N. (2014). In-service and pre-service middle school mathematics teachers' attitudes and decisions regarding teaching mathematics using mobile phones. *International Journal of Interactive Mobile Technologies*, 8(4), 4-13.
<https://doi.org/10.3991/ijim.v8i4.3721>
Impact Factor according to SJR-SCImago: **Q3**
14. *Anabousy, A, Daher, W, Baya'a, N & Abu-Naja, M. (2014). Conceiving function transformations in different representations: middle school students

working with technology. *Mathematics Education (International Electronic Journal of Mathematics Education)*, 9(2), 97-112.

<https://doi.org/10.29333/iejme/284>

Impact Factor according to SJR-SCImago: **0.238 (2019)**

15. *Baya'a, N & Daher, W. (2013). Mathematics teachers' readiness to integrate ICT in the classroom: the case of elementary and middle school Arab teachers in Israel. *International Journal of Emerging Technologies in Learning*, 8(1), 46-52.

<https://doi.org/10.3991/jjet.v8i1.2386>

Impact Factor according to SJR-SCImago: **Q2**

16. *Baya'a, N & Daher, W. (2012). From social communication to mathematical discourse in social networking: the case of Facebook. *International Journal of Cyber Ethics in Education*, 2(1), 58-67.

<https://doi.org/10.4018/ijcee.2012010106>

17. *Daher, W & Baya'a, N. (2012). Characteristics of middle school students learning actions in outdoor mathematical activities with the cellular phone. *Teaching Mathematics and Its Applications: An International Journal of the IMA*, 31(3), 133-152.

<https://doi.org/10.1093/teamat/hrr018>

Impact Factor according to SJR-SCImago: **Q2**

18. *Baya'a, N & Daher, W. (2010). Middle school students' learning of mathematics using mobile phones: conditions and consequences. *Journal of Interactive Learning Research*, 21(2), 165-185.

<https://www.learntechlib.org/primary/p/29401/>

Impact Factor according to SJR-SCImago: **Q3**

19. *Baya'a, N & Daher, W. (2009). Learning mathematics in an authentic mobile environment: the perceptions of students. *International Journal of Interactive Mobile Technologies*, 3(Special Issue IMCL2009), 6-14.

<http://dx.doi.org/10.3991/ijim.v3s1.813>

Impact Factor according to SJR-SCImago: **Q3**

20. *Baya'a, N, Mia'ari, H & Baya'a A. (2009). A rubric for evaluating web-based learning environments. *British Journal of Educational Technology*, 40(4), 761-763.

<http://dx.doi.org/10.1111/j.1467-8535.2008.00864.x>

Impact Factor according to SJR-SCImago: **Q1**

21. Baya'a, N. (1990). Mathematics anxiety, mathematics achievement, gender, and socio-economic status among Arab secondary students in Israel. *International Journal of Mathematical Education in Science and Technology*, 21(2), 319-324.

<https://doi.org/10.1080/0020739900210221>

Impact Factor according to SJR-SCImago: **Q2**

b. Local Journals

1. *Mahajneh, S & Baya'a, N. (2015). The effect of collaborative learning using GeoGebra on the development of the mental images of the angle concept among seventh graders. *Jami'a (Journal in Educational and Social Sciences - Al-Qasemi Academy)*, 19(1), 1-48. [Arabic]
2. *Anaboosi, A, Daher, W & Baya'a, N. (2012). GeoGebra in the mathematics classroom. *Jami'a (Studies in Islam, Arabic Language, Literature, the Sciences & Pedagogical Issues - Al-Qasemi Academy)*, No. 16, 3-55. [Arabic]
3. *Diab, T, Haj Yehia, H & Baya'a, N. (2011). The development of advanced mathematical ways of thinking through investigating the graphs of composite functions. *Jami'a (Studies in Islam, Arabic Language, Literature, the Sciences & Pedagogical Issues - Al-Qasemi Academy)*, No. 15, 25-54. [Arabic]
4. *Daher, W & Baya'a, N. (2010). Contexts and characteristics of mathematics learning using cellular phone among intermediate pupils. *Jami'a (Studies in Islam, Arabic Language, Literature, the Sciences & Pedagogical Issues - Al-Qasemi Academy)*, No. 14, 221-250. [Arabic]
[See: E3]
5. *Baya'a, N & Daher, W. (2010). Cellular applications that support the learning of functions in the intermediate school. *AL'H (Newsletter for Mathematics Teachers, National Center for Mathematics Teachers in the Secondary Education, the University of Haifa)*, No. 42, 32-40. [Hebrew]
6. *The members of the Forum of Computing and ICT Coordinators (Member in the Forum and in the writing of this article), The Forum Coordinators: Ramti, D. and Sheenfield, M. (2009). The proposed computerization plan for academic colleges in the frame of the new outline: graduate of teaching and his/her training for the 21st Century school. *Monthly of MOFET Institute*, No. 39, 11-18. [Hebrew]
7. *Daher, W & Baya'a, N. (2009). Integrating spreadsheet in teaching and learning of mathematics in all stages of learning. *Jami'a (Studies in Islam, Arabic Language, Literature, the Sciences & Pedagogical Issues - Al-Qasemi Academy)*, No. 13, 287-330. [Arabic]
8. *Baya'a, N, Daher, W & Khalil, R. (2009). The role of the computer coordinator in the school. *Jami'a (Studies in Islam, Arabic Language, Literature, the Sciences & Pedagogical Issues - Al-Qasemi Academy)*, No. 13, 257-286. [Arabic]

9. *Baya'a, N & Shehadi, H. (2008). Evaluating a learning website. *Madarat* (Journal of The Academic Arab College for Education in Israel - Haifa), No. 2, 167-183. [Arabic]
10. Baya'a, N. (2005). Teaching computer literacy in elementary and intermediate schools. *Darna* (Journal of The Academic Arab College for Education in Israel - Haifa), No. 38, 10-25. [Arabic]
11. Baya'a, N & Shahtoot, B. (1999). Databanks in Arabic language in the internet. *Al-resala* (an annual educational, literary, sciential journal of The Academic Center for Training Arab Teachers in Beit Berl College), November, 351-367. [Arabic]
12. Abood, E & Baya'a, N. (1999). Children's perception of space. *Mespar Hazak - Journal for the teaching of mathematics in the elementary school* (Beit Berl College, Ministry of Education and the University of Haifa), No. 18, 41-44. [Hebrew]
13. Baya'a, N. (1997). Using spreadsheets in teaching. *Al-resala* (an annual educational, literary, sciential journal of The Academic Center for Training Arab Teachers in Beit Berl College), June, 97-106. [Arabic]
14. Baya'a, N. (1996). Computerized communication. *Al-resala* (an annual educational, literary, sciential journal of The Academic Center for Training Arab Teachers in Beit Berl College), May, 51-61. [Arabic]
15. Abood, E & Baya'a, N. (1995, 1997). Geometric constructions with straightedge and compass. *Mespar Hazak - Journal for the teaching of mathematics in the elementary school* (Beit Berl College and the University of Haifa), two parts: No. 12, 43-45, No. 14, 19-20. [Hebrew]
16. Baya'a, N. (1996). The computer in the Arabic school. *Al-resala* (an annual educational, literary, sciential journal of The Academic Center for Training Arab Teachers in Beit Berl College), January, 36-45. [Arabic]
17. Abood, E & Baya'a, N. (1995). The relation between the Least Common Product and the Most Common Factor of two numbers. *Mespar Hazak - Journal for the teaching of mathematics in the elementary school* (Beit Berl College and the University of Haifa), No. 11, 33-36. [Hebrew]

D. Articles or Chapters in Scientific Books

* Which are not Conference Proceedings

1. *Daher, W & Baya'a, N. (2015). Students' behaviour, perceptions and emotions when learning mathematics with cellular phones. In: Crompton, H & Traxler, J. (Ed.), *Mobile Learning and Mathematics: Foundations, Design, and Case Studies*. Routledge, 61-70. **(Invited Chapter)**
2. *Baya'a, N & Daher, W. (2013). The Facebook as an educational environment for mathematics learning. In: Mallia, G. (Ed.), *The Social Classroom: Integrating Social Network Use in Education*. IGI Global (formerly Idea Group Inc.), 171-190. **(Invited Chapter)**

3. *Daher, W. & Baya'a, N. (2011). Building multimedia and web resources for teaching mathematical concepts through their historical development. In: Styliaras, G. D, Koukopoulos, D & Lazarinis, F, University of Ioannina, Greece (Ed.), *Handbook of Research on Technologies and Cultural Heritage: Applications and Environments*. IGI Global (formerly Idea Group Inc.), 370-391.
4. Baya'a, N. (1998). The computerization of Arab schools in Israel. In: Schulz-Zander, R. (Ed.), *Information and Communication Technology Changing Schools and Teacher Education*, University of Dortmund, Germany: IFS-Verlag, 29-39.

E. Articles in Conference Proceedings

1. *Daher, W, Baya'a, N, & Jaber, O. (2022). Preparing mathematics preservice teachers for applying metacognitive skills in designing mathematics-based programming activities. Presented in *The 42nd Istanbul International Conference on "Education, Social Sciences, Humanities and Business Management" (ESSHBM-22)*. Istanbul, Turkey, 18-19 August, 2022.
2. *Baya'a, N, Daher, W, Jaber, O, & Anabousy, A. (2019). Educating mathematics preservice teachers in metacognitive skills. Published in the proceedings of the *13th Annual International Conference on Mathematics: Teaching, Theory & Applications*, Athens, Greece, 1-4 July, 2019.
3. *Baya'a, N, Shahbary, J, Daher, W, & Jaber, O. (2019). Development of prospective teachers' metacognitive skills while performing, designing and implementing mathematical problems using Scratch. Presented in *The 7th International Conference on Teacher Education: The Story of Innovation in Teacher Education*, MOFET Institute, Tel Aviv, Israel, 24-26 June, 2019.
4. *Daher, W, Baya'a, N, Anabousy, A, & Jaber, O. (2019). Development of pre-service teachers' perceptions of using metacognitive skills in teaching and learning mathematics. Presented in *The International Conference on Education in Mathematics, Science & Technology (ICEMST 2019)*, Cesme, Turkey, 28 April – 1 May, 2019.
5. *Baya'a, N, Daher, W, Jaber, O, & Anabousy, A. (2018). Educating pre-service teachers in metacognitive activities. Published in the proceedings of the *Fifth ERME Topic Conference - Mathematics Education in the Digital Age MEDA*, University of Copenhagen, Denmark, 5-7 September, 2018.
6. *Baya'a, N, Daher, W, Abu-Mokh, D, & Anabousy, A. (2018). The effectiveness of integrating GeoGebra HOTS activities on the development of creative mathematical thinking. Published in the proceedings of the *42nd Conference of the International Group for the Psychology of Mathematics Education PME42*, Umeå, Sweden, July 3-8, 2018.
7. *Daher, W, Baya'a, N, Anabousy, A, & Jaber, O. (2018). Preparation phases for developing pre-service mathematics teachers' metacognitive thinking skills in learning and teaching. Presented in *The International*

Conference on Education in Mathematics, Science & Technology, ICEMST 2018, Marmaris, Turkey, April 28 – May 1, 2018.

8. *Baya'a, N, Daher, W, Anabousy, R & Anabousy, A. (2017). The development of pre-service teachers' TPACK in the use of digital tools. Published in the proceedings of *10th Congress of European Research in Mathematics Education CERME10*, Dublin, Ireland, 1-5 February, 2017.
9. *Daher, W & Baya'a, N. (2017). In-service mathematics teachers' integration of ICT as innovative practice. Presented in the *International Conference on Education in Mathematics, Science & Technology, ICEMST 2017*, Ephesus Kusadasi, Turkey, 18-21 May 2017.
10. *Daher, W, Baya'a, N, Anabousy, A & Anabousy, R. (2017). Pre-service teachers' preparation as a catalyst for the acceptance of digital tools for teaching mathematics and science. Published in the proceedings of the *13th International Conference on Technology in Mathematics Teaching, ICTMT-13*, Lyon, France, 3-6 July 2017.
11. *Baya'a, N, Daher, W, & Mahagna, S. (2017). The effect of collaborative computerized learning using geogebra on the development of concept images of the angle among seventh graders. Published in the proceedings of the *13th International Conference on Technology in Mathematics Teaching, ICTMT-13*, Lyon, France, 3-6 July 2017.
12. *Daher, W, Baya'a, N & Anabousy, R. (2016). Professional development school as a catalyst for in-service teachers' integration of ICT. Presented in the *13th International Congress on Mathematical Education, ICME 13*, Hamburg, Germany, 24-31 July, 2016.
13. *Daher, W & Baya'a, N. (2015). Integrating HOTS activities with GeoGebra in pre-service teachers' preparation. Published in the proceedings of *17th International Conference on Innovation in Education, ICIE 2015*, Prague, Czech Republic, 9-10 July, 2015.
14. *Baya'a, N & Daher, W. (2014). The development of college instructors' technological pedagogical and content knowledge (TPACK). Published in the proceedings of *International Conference on New Horizons in Education, INTE 2014*, Sakarya University, Paris - France, 25-27 June, 2014.
15. *Daher, W & Baya'a, N. (2013). Pre-service teachers' perceptions of the integration of ICT in the mathematics classroom. Published in the proceedings of *ICTMT11 11th International Conference on Technology in Mathematics Teaching*, The University of Bari Aldo Moro, Bari - Italy, 9-12 July, 2013.
16. *Baya'a, N & Daher, W. (2012). Mathematics teachers' readiness to integrate ICT in the classroom: the case of elementary and middle school Arab teachers in Israel. Published in the proceedings of *IMCL2012 7th*

International Conference on Interactive Mobile and Computer aided Learning, Princess Sumaya University for Technology, Amman – Jordan, 6 – 8 November, 2012.

17. *Daher, W & Baya'a, N. (2012). Inter-disciplinary phenomena in social networking sites: the case of the Golden Ratio in the Facebook. Published in the proceedings of EduLearn12 - The 4th annual International Conference on Education and New Learning Technologies, Barcelona, Spain, 2-4 July, 2012.
18. *Baya'a, N & Daher, W. (2011). From social communication to mathematical discourse in social networking: the case of the Facebook. Published in the proceedings of *ICICTE 2011 - International Conference on Informational Communication Technologies in Education*, Rhodes, Greece, 7-9 July, 2011.
19. *Daher, W & Baya'a, N. (2010). A blended model for non-traditional teaching and learning of mathematics. Published in the proceedings of *ICICTE 2010 - International Conference on Informational Communication Technologies in Education*, Corfu - Greece, July 8-10.
20. *Daher, W & Baya'a, N. (2009). Characteristics of mathematics learning using cellular phone among intermediate pupils. Published in the proceedings of *The Conference of the Educational Practice in the Twenty-First Century - Reality and Challenges*, An-Najah National University - Nablus, Palestine, October 17-18.
21. *Baya'a, N & Daher, W. (2009). Students' perceptions of mathematics learning using mobile phones. Published in the proceedings of *IMCL2009 4th International Conference on Interactive Mobile and Computer aided Learning*, Princess Sumaya University for Technology, Amman – Jordan, April 22 – 24.
22. *Daher, W & Baya'a, N. (2008). Managing online courses: problems and worked-out solutions: the case of the pre-service teachers. Published in the proceedings of *IMCL2008 3rd International Conference on Interactive Mobile and Computer aided Learning*, Princess Sumaya University for Technology, Amman – Jordan, April 16 – 18.

F. Other Scientific Publications – Research Reports

1. *Baya'a, N. (2023). Using digital video recordings in class activities for enhancing mathematics pre-service teachers' reflective thinking. Research Report, Al-Qasemi Academic College of Education, The Practical Training Unit, Baqa El-Gharbiah, Israel.
2. *Baya'a, N. (2016). The Development of Pre-service Teachers' TPACK in the Use of Digital Tools. Research Report, Al-Qasemi Academic College of Education, The Research Unit, Baqa El-Gharbiah, Israel.

3. *Ganayem, A, Baya'a, N & Daher, W. (2014). The development of college instructors' technological pedagogical and content knowledge. Research Report, The MOFET Institute - Research, Curriculum and Program Development for Teacher Educators, Tel-Aviv, Israel.
4. *Baya'a, N & Daher, W. (2012). In-service and pre-service Arab mathematics teachers' attitudes and readiness to integrate ICT in teaching. Research Report, Al-Qasemi Academic College of Education, The Research Unit, Baqa El-Gharbiah, Israel.
5. *Daher, W & Baya'a, N. (2011). Teaching mathematics with the mobile phone: in-service and pre-service teachers' instructional behavior and decisions. Research Report, Al-Qasemi Academic College of Education, The Research Unit, Baqa El-Gharbiah, Israel.
6. *Baya'a, N & Daher, W. (2010). Learning mathematics through activities in the cellular phone environment. Research Report, The MOFET Institute - Research, Curriculum and Program Development for Teacher Educators, Tel-Aviv, Israel.

G. Articles in Non-Refereed Journals

1. *Anaboosi, A, Daher, W & Baya'a, N. (2013). GeoGebra in the mathematics classroom. *Wamadat Fi Alriadiat (Flashes in Mathematics)*, No. 9, 44-60. [Arabic]
2. Baya'a, N. (2000). Computerization in the Arab schools in the northern region. *News Letter of the Northern Region* (Ministry of Education - Office of the Northern Region), No. II, December 9-10. [Hebrew]
3. Baya'a, N. (2000). Internet in the Arab schools in Israel. *Netdays*, November, 34-35. [Hebrew]
4. Baya'a, N. & Shahtoot, B. (2000). The computerized databank of educational materials in Arabic by the name of "Ibn Khaldoun". *Inter-Tariah* (Educational Journal for Computing and Internet, published by The Center for Training Arab Teachers in Beit Berl College), No. 2, Spring, 8-10. [Arabic]
5. Baya'a, N. (1998). Computerization of Arab schools. In: Abu Fanni, M. (Ed.), *The Arab Education in Israel, Achievements and Challenges*, Jerusalem: Ministry of Education, Pedagogical Administration, Pedagogical Secretariat, Arab Education, 71-75. [Arabic]
6. Baya'a, N. & Amer, S. (1997). Viruses and anti-viruses. *Head Hahinookh* (Echo of Education), Vol. 45, June, 5-9. [Arabic]
7. Baya'a, N. & Tayeh, A. (1997). Multimedia in education. *Head Hahinookh* (Echo of Education), Vol. 45, April-May, 6-10. [Arabic]
8. Baya'a, N. & Marzook, T. (1997). The art of computer simulation in teaching. *Head Hahinookh* (Echo of Education), Vol. 45, March, 3-9. [Arabic]
9. Baya'a, N. & Abed-Elhay, N. (1997). Global communications network. *Head Hahinookh* (Echo of Education), Vol. 45, February, 8-9. [Arabic]

10. Baya'a, N. & Hamdan, R. (1996). Various models for computer use in teaching. *Head Hahinookh* (Echo of Education), Vol. 44, October, 12-15. [Arabic]
11. Baya'a, N. (1996). Development of computer teaching in middle schools (second part). *Head Hahinookh* (Echo of Education), Vol. 44, February, 3-5. [Arabic]
12. Baya'a, N. (1996). Development of computer teaching in middle schools (first part). *Head Hahinookh* (Echo of Education), Vol. 44, January, 29-31. [Arabic]
13. Baya'a, N. (1989). Towers of Hanoi. *Almanber* (The Podium), August-September, 77-84. [Arabic]
14. Baya'a, N. (1989). Even the greatest mathematicians make mistakes. *Almanber* (The Podium), January, 61-64. [Arabic]
15. Baya'a, N. (1987). Mathematical anxiety among Arab pupils in Israel. *Almanber* (The Podium), November, 57-62. [Arabic]

H. Reviewing Scientific Publications

I reviewed articles in several journals & conferences, including the following:

EURASIA Journal of Mathematics, Science and Technology Education

IJRES (International Journal of Research in Education and Science)

Jami'a (Journal of "Al-Qasemi" Academic College of Education)

An-Najah National University Journal for Scientific Research

Educational Research and Reviews

Creative Education

CERME10 – 10th Congress of the European Society for Research in Mathematics Education

Fifth ERME Topic Conference - Mathematics Education in the Digital Age MEDA

I also reviewed chapters in the following edited book:

Helen Crompton & John Traxler (2015). *Mobile Learning and Mathematics: Foundations, Design, and Case Studies*. Routledge.

I. Participating in the Editorial Board of a Journal

I was in the editorial board of the journal *Jami'a* (Studies in Islam, Arabic Language, Literature, the Sciences & Pedagogical Issues - "Al-Qasemi" Academic College of Education - Baqa El-Gharbiah, Israel) in the years 2009-2012

J. Submitted Publications

K. Summary of My Activities, Achievements and Future Plans

When I finished my Ph.D. studies in 1985 in the United States, I started my research in the field of using computers in teaching mathematics. Even though I was advancing in my position at The American University getting the academic rank as assistant professor, I was worried about the situation of computerization in the Arab schools specifically and the Arab community in Israel generally. I realized that this community is left behind relative to the Hebrew-speaking community in Israel, which was also still behind the advanced computerization that I was exposed to in the American universities and schools. I felt I had a mission to accomplish. I, therefore, decided to take part in bridging such a gap and in contributing to the advancement of my community, especially the Arab schools, in using modern and advanced technologies. For that reason, I went back in 1988 to Israel and set out three major goals to achieve:

- **Improving the computerization and the use of advanced technologies, especially in the teaching and learning processes, in the Arab schools particularly and the Arab community in Israel generally.**
- **Improving the digital literacy (DL), information and communication technology (ICT) and computer science (CS) abilities amid Arab pupils to speed up the integration of Arab youth into the High Tec field.**
- Studying and investigating the implementation of the two goals mentioned above to raise awareness among the international community of the advancement in education among the Arab minority in Israel, and to **propose worldwide technological pedagogical models that arise from my research and experiments.**

Since the late eighties, I held two positions: Supervisor of computerization in the Arab educational system within the Ministry of Education in Israel, and lecturer and pedagogical supervisor in several Arab teacher training colleges in Israel. Occupying such positions enabled me to secure budgets from the Ministry of Education and to devise and implement policies directly related to the Arab schools. At the same time, I was able to write curricula and develop teaching materials and train teachers to teach computer skills and coordinate the computerization of the Arab schools. The combination of these two positions was one of the main factors that helped me achieve my goals.

At the beginning of my academic career in my native country, I concentrated, as a supervisor in the Ministry of Education and as a lecturer and pedagogical supervisor in colleges, on achieving the first two goals. I have managed to work simultaneously on the following objectives: enhance the technological infrastructure in the Arab schools; advance computer science teaching in secondary schools; persuade Arab school principals to set special hours for teaching ICT in primary and intermediate schools; write curricula and devise teaching materials for these fields; improve the use of technology in the teaching and learning processes; train in-service teachers through continuing courses; prepare pre-service teachers in colleges to keep up to date in these fields; and organize and participate in conferences, study days and exhibitions in the field of using computers in education.

To advance the teaching of computer science and ICT and to advance the use of modern technologies in teaching and learning, I developed several programs for Arab teacher training colleges with the objective of training teachers to teach computer science in intermediate schools. These programs were approved by the Council for Higher Education and are currently being used in the Arab colleges in Israel. I also co-authored programs for teaching and learning in general and for mathematics education for M.Ed. studies in two colleges.

As a result of training competent teachers and developing curricula, most of the Arab schools that were not teaching ICT or computer science, started to do so. Currently, most of the Arab primary schools teach ICT skills and computer science graphical programming using Scratch environment, consequently many Arab intermediate schools prepare pupils for advanced computer science learning, and the secondary schools teach 5 units of computer science and 15 units of software engineering for the matriculation exam (Bagrut). This resulted in many Arab high school graduates joining the study of computer science and other advanced High Tec fields in the Israeli academic institutions. **As a result, many High Tec companies began hiring these Arab graduate engineers, and today it is quite normal to meet Arab computer science engineers in most of these companies.**

On the other hand, I also concentrated on designing and carrying out projects and initiatives to advance the assimilation of digital literacy and the use of computers in teaching and learning processes in the Arab schools. I succeeded in getting large budgets for the Arab schools to improve the technological infrastructure and implement several digital educational pedagogical projects and initiatives in those schools and in Arab colleges as well.

When I started teaching at Al-Qasemi College, I felt that I had enough field experience to start concentrating on my research to achieve my third goal. Since then, I have been submitting each year new initiative proposals, in collaboration with colleagues from the college, for experimenting with different technological pedagogical models in the frame of the practical training. These models included, for example, the use of cellular phones, social network sites (especially Facebook) and GeoGebra in the teaching and learning of mathematics. Furthermore, one proposal involved using various technological pedagogical models for teaching mathematical concepts based on their historical development, especially in the Islamic heritage. Recently, two initiatives were implemented and were designed to improve the ability of the pre-service mathematics teachers to develop computerized activities that encourage the use of higher order thinking strategies (HOTS), meta-cognitive and creative thinking and promote meaningful and collaborative learning among their pupils.

All my proposals were accepted and funded by the college, the MOFET institute or the Ministry of Education and accompanied with research. At the end of each initiative, a proper site was launched for all teachers providing the outcomes and the teaching and learning materials developed during the implementation of the initiative. In addition, articles were written based on the experimentations carried out through the initiatives and the research that accompanied them. These articles were published in referee journals or in international conferences.

Thanks to my expertise, I was invited as a leader and pioneer in the field of mobile learning in mathematics to contribute a chapter to a book on mobile learning and

mathematics edited by Helen Crompton and John Traxler. I was also invited to contribute a chapter to a book edited by Gorge Mallia on using social networks in teaching mathematics based on my contributions and publications in this field too.

One special project that I led with colleagues over a period of three years in Al-Qasemi was funded by a **grant (500,000 NIS)** from the Ministry of Education. This project, which set out to prepare the college, especially the pedagogical supervisors, for the twenty-first century skills, was also accompanied by research that studied the development of the technological pedagogical content knowledge (TPACK) of the pedagogical supervisors who enjoyed using several resources provided by the project.

Moreover, in 2016 I applied jointly with colleagues for a **grant (324,000 NIS)** from the Ministry of Education for running computerized projects in the college that involved using portable computers, smart phones, and iPads to carry out experiments within the frame of practical training in the subjects of mathematics, science, and English. The projects aimed to develop and research models for collaborative mobile computerized teaching and learning using digital tools and books.

In the academic year 2017-2018, I held three positions in Al-Qasemi Academy: Head of the ICT center, Head of the Teaching and Learning Program in the graduate studies for the M.Ed. degree and Head of the graduate studies for the M.Ed. degree. I also represented Al-Qasemi Academy in the IN2IT project (under Erasmus+ project funded by the EU). I have attended several study and work meetings of researchers from various universities and colleges in Europe and Israel who work collaboratively under this project.

In the years 2017-2019 I got **support (283,500 NIS)** from the Ministry of Education in the frame of the “Innovation arena” project to develop A digitized diagnostic system for teachers' TPACK knowledge for pre-service teachers in colleges. This year I also received a support from Al-Qasemi College to expand this system to work with teachers in schools with the “Unified Identification” project of the Ministry of Education. I recently got the Ministry of Education approval of this system to be used by principals, teachers, and students in schools. I also presented the system to MOFET institute for possible use in other colleges in the frame of the “Digital Learning Project”.

In November 2020, the Ministry of Education announced a call for the establishment and operation of a "Digital Learning Unit" that can assist faculty members and students in teaching and learning in the digital era. I prepared with the head of the college a strategic plan for digital learning in the coming three years. Consequently, Al-Qasemi College was approved to join the project (with **support of 255,000 NIS**) and I was selected to head this unit, which intent to promote digital learning teaching in the college.

In December 2021, a pedagogical initiative that I prepared collaboratively with the head of the digital learning unit in The Academic Arab College for Education in Israel was selected for **support (60,000 NIS)** by the “Prizma” Fund (The Ministry of Education, National Digital Israel Initiative, MOFET Institute). In this initiative we intend to construct collaboratively a digital platform for dealing with the phenomenon of violence in the Arab society.

Recently, I am concentrating in my research on using meta-cognitive processes and skills to solve mathematical-based programming problems. My research focuses on the professional development of pre-service and in-service teachers, especially mathematics teachers, in designing activities and developing teaching materials, based on advanced technological pedagogical models and programming using Scratch, and investigating the effect of the implementation of these activities and materials on the teaching and learning of mathematics.

This academic year (2021-2022), considering the gaps that have been generated in mathematics knowledge among intermediate school students because of the distance learning imposed by the Corona epidemic, I have set a goal to investigate this issue through my work as a pedagogical supervisor in the “Classroom Academic Community” model of practical training. I prepared with my pedagogical supervisor colleague and the school administration and math-computer teachers an initiative that utilizes the digital and technological means to designing digital based activities for closing these gaps.

It is worth noting that my publications and experience over the past twenty years with the Arab minority educational system in Israel, in the fields of computerization and ICT integration in teaching in general and in mathematics can be beneficial for researchers all over the world who study these fields among minorities. Equally beneficial for researchers in these fields are the pedagogical technological models, such as using cellular phones for mobile learning and teaching mathematics, using social networks such as Facebook in teaching mathematics, and using programming and GeoGebra in teaching mathematics, models that I was among the pioneer researchers who implemented and investigated them in teaching mathematics.

To sum up, every year I publish the teaching and learning materials that I develop during the implementation of my initiatives in the training schools in the ICT center internet site at Al-Qasemi College to all the Arab schools. I also disseminate the results, conclusions, and the models I developed in my research to all the Arab teachers. In so doing, I manage to update the Arab teachers with pioneer technological pedagogical models with which I experiment at Al-Qasemi College, and to integrate these models into the Arab schools. **This process helps me in keeping the advancement pace of achieving my three goals which I set for myself since the start of my career.**

Looking backward and comparing **what has been achieved of these three goals** in the early nineties and today, I can safely say that much has been achieved today, and **part of the credit for such a progress is due to my vision, commitment, professionalism, and hard work.**

In February 2023 I received, from the Council of Higher Education, the rank of **Associate Professor** in the professional track in the field of technologies in education and digital integration in teaching.