

**CURRICULUM VITAE**

**1. Personal Details**

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**2. Higher Education**

**A. Undergraduate and Graduate Studies**

<b>Period of Study</b>	<b>Name of Institution and Department</b>	<b>Degree</b>	<b>Year of Approval of Degree</b>
1981-1986	Azerbaijan State University named after Kirov	M.Sc	1986
1996-2001	Azerbaijan State Pedagogical University	Ph.D	2001

**B. Post-Doctoral Studies**

<b>Period of Study</b>	<b>Name of Institution, Department and Host</b>	<b>Degree</b>	<b>Year of Completion</b>
2006-2007	University of Haifa, Faculty of Education, Fellow with Prof. Roza Leikin	Postdoctoral Studies	2007

**C. Research Fellow**

<b>Period of Study</b>	<b>Name of Institution, Department and Host</b>	<b>Degree</b>	<b>Year of Completion</b>
2019	University of Haifa, Faculty of Education, Fellow with Prof. Roza Leikin	Research Fellow	2021

### **3. Academic Ranks and Tenure in Institutions of Higher Education**

<b>DATES</b>	<b>NAMES OF INSTITUTION AND DEPARTMENT</b>	<b>RANK/POSITION</b>
2001-2004	Mathematics Division, Negev Academic College of Engineering	Invited Lecturer
2003-2007	Department of Mathematics and Teaching Mathematics, Kaye Academic College of Education	Senior Teacher
2006-2007	Faculty of Education, University of Haifa	Teaching Associate (Post-Doctoral Fellow with Professor Roza Leikin)
2007-2011	Department of Mathematics and Teaching Mathematics, Kaye Academic College of Education	Lecturer
2011-2015	Department of Mathematics and Teaching Mathematics, Kaye Academic College of Education	Senior Lecturer
2013 – 2014	M.Ed Program in Mathematics Education, Hemdat Darom Academic College of Education	Invited Lecturer
2015-today	Department of Mathematics and Teaching Mathematics, Kaye Academic College of Education	Senior Lecturer Alef
2016	Preparing teachers for 5 points Mathematics program teaching, Tel Aviv University	Invited Lecturer
2018 - today	Department of Mathematics and Teaching Mathematics, Kaye Academic College of Education	Associated Professor
2019, October	Faculty of Education, Simon Fraser University, Vancouver, Canada	Guest Lecturer

#### **4. Offices in Academic Administration**

<b>Date</b>	<b>Name of institution and department</b>	<b>Rank/Position</b>
2002-2008	Kaye Academic College of Education	The Head of the Department of Mathematics and Teaching Mathematics
2009-2013	Kaye Academic College of Education	The Head of Teachers' Disciplinary Development
2013 - today	Kaye Academic College of Education	The member of Committee on promotion academic positions
2015- today	Kaye Academic College of Education	The member of Superior Academic Council
2016 - today	Kaye Academic College of Education	The Head of Research and Evaluation Authority
2017 - today	Kaye Academic College of Education	The Head of Research Committee

#### **5. Scholarly Positions and Activities outside the University**

<b>Date</b>	<b>Name of institution and department</b>	<b>Rank/Position</b>
2004-2008	MOFET Association ( <i>Mathematics, Physics and Culture</i> ) Group for the advancement of Teaching.	The Head of the Department of Mathematics
2008-2017	Centre of Educational Technology, Tel Aviv	The Head of the Mathematics Group in Measurement and Evaluation Department
2008 -2013	University of Moncton, Canada	Initiator and scientific advisor of the project Virtual Mathematical Marathon for secondary school
2010-2011	Kaye Academic College of Education	Scientific advisor of the project "Academ-On" (for mathematically promising students)

<b>Date</b>	<b>Name of institution and department</b>	<b>Rank/Position</b>
2010 - 2014	Ministry of Education, Israel	Scientific advisor of International Mathematics' examination
2012 - 2015	Beer-Sheva Municipality	Initiator and Scientific advisor of the City Mathematical Marathon project for primary schools
2012	Omarim Primary School, Omer	Initiator and Scientific advisor of the Project Based Learning
2013-2015	Hevra LeMatnasim	Scientific advisor of the Regional Mathematical Marathon project for promising students in Bedouins' population in high school
2013 – 2019	Chamber of Commerce and Industry, Israel – Azerbaijan	Head of Education Committee and Board Member
2013- today	Kangaroo Israel Contest	CEO
2015-2020	University of Haifa	The Chief Editor of "Mispar Hazak 2000" The (Israeli) Primary School Mathematics Journal, <a href="#">ISSN (online): 2618-009X</a> , <a href="#">ISSN (print): 2618-0081</a>
2015 – 2019	International Group of Mathematical Creativity and Giftedness (MCG)	The member of International Committee
2015 - 2016	Ramat Gan Municipality	Scientific advisor of the project "Retsafim" (in mathematics)
2018 - today	Beer-Sheva Municipality	The member of ECOSYSTEM Committee
2020 - today	Beer-Sheva Municipality and Shitufim	Initiator and Scientific advisor of the Kanga Kids project
2021 - today	NBI Learning Organization, Hong Kong	Initiator and Scientific advisor of "Critical & Creative Thinking Through Maths" Project for Chinese students

## **MEMBER OF SCIENTIFIC BOARD**

<b>Date</b>	<b>Name of institution and department</b>	<b>Rank/Position</b>
1999-2002	Mathematics Club Project, Ben Gurion University in Negev	Scientific coordinator and advisor
2006-2007	Committee on Emigration Problems of Youth in Knesset Israel	Invited participant
2006-2008	Council for Higher Education for College Mathematics Program	Assessor
2007-2011	"Excellence in Mathematics" project, Municipality of Beer-Sheva	Initiator and Scientific advisor
2008 - 2014	Moscow State University (Baku's branch)	Member of the International Educational Committee on problems in Advancement Mathematically Promising Students
2008-2009	Knesset Israel	Invited participant of Educational Committee on problems in Mathematical Education in Israel
2008-2016	Ministry of Education, Israel	Member of Steering Committee on Israeli "Meitsav" examination
2012 -2015	International Group for Mathematical Creativity and Giftedness	Website manager
2012 - today	International Group for Mathematical Creativity and Giftedness	Member of Working Group for Supporting Teachers in Nurturing Mathematical Creativity and Giftedness
2013-2016	Ministry of Education, Israel	Member of Committee on Revision of Mathematics Program in High School
2015-2018	Recanati Prize	Member of Committee on choosing "The Teacher of Israel"

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

- 2008 - International Group for Mathematical Creativity and Giftedness
- 2005 - Israel Mathematical Union
- 2001 - International Group for the Psychology of Mathematics Education

## 6. Participation in Scholarly Conferences

### a. Active Participation

#### INTERNATIONAL CONFERENCES

<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
June, 2001	The First International Virtual Conference: Opening Gates in Teacher Education	Virtual Conference, Mofet Institute,	Mathematics mistakes of students: Training potential	
July, 2002	The 2 <sup>nd</sup> International Conference on the Teaching Mathematics (at the undergraduate level)	Hersonissos, Crete, Greece,	Teaching Mathematics Using the Idea of "Research problems"	

<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
July, 2002	The 2 <sup>nd</sup> International Conference "Creativity in mathematics education and the education of gifted students"	Riga, Latvia	“Mathematical Club” as an Efficient Training Tool in the Teaching of Gifted and Mathematically Talented Students	
July, 2002	The 26 Conference of the International Group for the Psychology in Mathematics Education	Norwich, UK	Logical Errors of Students in the Solution of Mathematical Problems	
July, 2003	The 55 <sup>th</sup> International Conference CIEAEM	Plock, Poland	Optimized Techniques of Teaching Mathematics at School	
August, 2003	The 3 <sup>rd</sup> International Conference "Creativity in mathematics education and the education of gifted students"	Rousse, Bulgaria	12 – Years Old Scientists! Whether it is Possible?	

<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
July, 2004	The 10 <sup>th</sup> International Conference of Mathematics Education, ICME-10	Copenhagen, Denmark	Identification of Secondary Students Mathematical Mistakes by Pre-service Mathematics Teachers	
July, 2004	The 28 <sup>th</sup> International Conference for the Psychology of Mathematics Education	Bergen, Norway	Identification of Mathematical Mistakes by Undergraduate Students	
August, 2005	The 3 <sup>rd</sup> ICMI-East Asia Regional Conference on Mathematics Education	Shanghai, China	Problem Solving in Different Ways: Two Didactical Approaches	
June, 2006	Conference of the 16 <sup>th</sup> ICMI (International Commission on Mathematical Instruction) Study: <i>Challenging Mathematics in and Beyond the Classroom</i>	Trondheim, Norway	Challenge Mathematical Tasks and Teaching Mathematics in MOFET Classes	



<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
July, 2006	The 30th International Conference for the Psychology of Mathematics Education	Prague, Czech Republic	Conformism in Teaching Mathematics	
June, 2007	The 5 <sup>th</sup> International Conference: Teachers Education at a Crossroads	Beer-Sheva, Tel- Aviv, Israel	Critical thinking of mathematics teachers	
July, 2007	The 31 <sup>st</sup> International Conference for the Psychology of Mathematics Education	Seoul, South Korea	(1) Teachers' conceptions of Mathematical challenge in school mathematics  (2) The ability to recognize mistakes in tasks solved by 3 <sup>rd</sup> grade students	
September, 2007	The 9-th International Conference Mathematics Education in a Global Community	Charlotte, USA	Translations towards connected Mathematics	

<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
February, 2008	The 5 <sup>th</sup> International Conference on Creativity In Mathematics and the Education of Gifted Students	Haifa, Israel	Promotion Mathematics Creativity in Secondary School	Member of the International program committee
February, 2008	International Research Workshop of The Israel Science Foundation	Haifa, Israel	(1) Mathematical Battle and Multiple Solutions  (2) Multiple Solutions in Geometry and mathematical competitions	Member of Organizing Committee of the International Research Workshop: Employing Connecting tasks for the development of mathematical understanding
July, 2008	The 11 <sup>th</sup> International Conference of Mathematics Education, ICME-11	Monterrey, Mexico	Views on Teaching Mathematically Promising Students	Member of Organizing Topic Study (Teaching Mathematics for Gifted) Group 6

<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
May, 2009	The 3rd Mathematics and its Connections to the Arts and Sciences (MACAS3) Symposium	Moncton, New Brunswick, Canada	Connecting mathematics to real life: "EDULOG's" Mathematical Laboratories enhance primary school students' mathematical experiences	
July, 2009	The 33th International Conference for the Psychology of Mathematics Education	Thessaloniki, Greece	Involving students in out-of-school Mathematical Activity: Mathematical Marathon' Case study	
August, 2010	The 5 <sup>th</sup> International Conference on Creativity In Mathematics and the Education of Gifted Students	Riga, Latvia	(1) Use of mathematical games to develop creativity by open-ended investigations in a regular classroom  (2) Creativity – where is it coming from? <i>Some open questions for reflections.</i>	

<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
August, 2010	The Fifth ICMI-East Asia Regional Conference on Mathematics Education	Tokyo, Japan	(1) Development Pre-service Mathematics' Teachers Critical Thinking. (2) Between Knowledge and Creativity: Solving problems by students who excel in Mathematics (3) 12-Years old students' ability to cope with open-ended problems	
July, 2012	The 12 <sup>th</sup> International Conference of Mathematics Education, ICME-12	Seoul, South	Gender-Related issues in Mathematical Competitions: participation in the Virtual Mathematical Marathon	Member of Organizing Discussion Group on <i>Creativity in Mathematics Education</i> (DG-2)
October, 2012	International Research Workshop of The Israel Science Foundation	Haifa, Israel	Increasing challenging opportunities: case of elementary students involved in City Mathematical Marathon	

<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
July, 2014	The 8 <sup>th</sup> International Conference on Creativity In Mathematics and the Education of Gifted Students	Denver, USA	Method of Inquiry: Design and validation of the teaching and learning scenario.	
June, 2015	The 9 <sup>th</sup> International Conference on Creativity In Mathematics and the Education of Gifted Students	Sinaia, Romania	The perception of the Concept of a "Challenging Task" by Mathematically promising Elementary school students	
April, 2017	The 10 <sup>th</sup> International Conference on Creativity In Mathematics and the Education of Gifted Students	Nicosia, Cyprus	Spatial Abilities as Predictor to Mathematics Performance of Mathematics' Motivated Students	

<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
July, 2018	The 42 <sup>nd</sup> International Conference for the Psychology of Mathematics Education	Umea, Sweden	Gender issues in Kangaroo Contest	
*July, 2019	The 11 <sup>th</sup> International Conference on Creativity In Mathematics and the Education of Gifted Students	Hamburg, Germany	Girls' performance in the Kangaroo Contest	
*September, 2019	International Conference "Challenging mathematical tasks for heterogeneous classes"	University of Haifa	"Challenging Task" – in the eyes of Elementary School Students	
	PISA Conceptual Framework as an Approach for Teaching and Learning Mathematics	University of Haifa (in ZOOM)	MAOF project	
*October, 2020	Synergetic and Reflection in Mathematics Education	Pamporovo, Bulgaria		The member of Program Committee

## LOCAL CONFERENCES

<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
May, 2001	The Seventh National Conference for the Advancement of Mathematics Education in Israel	Tel-Aviv	Pupils' mistakes as one of teacher's effective tools for activating and improving the development of criticism in the mathematical mind process and for the high level attainments obtaining	
January, 2001	The Second Weitzman Institute Conference, The leadership in teaching Mathematics	Netanya	The treasure that is in discovery	
April, 2001	The Eighth National Conference for the Advancement of Mathematics Education in Israel	Tel-Aviv	The positive impressing of Research tasks	
May, 2001	The National Conference of the Israel Mathematics Union	University of Haifa	Research Tasks	
March, 2002	The First MEITAL Conference	Haifa	Distance Education and Calculus 1	
June, 2002	The Ninth National Conference for	Tel-Aviv	Prove using Mathematical Induction or in another	

	the Advancement of Mathematics Education in Israel		way: another way	
June, 2003	The Tenth National Conference for the Advancement of Mathematics Education in Israel	Tel-Aviv	Learning from the mistakes of others	
June, 2004	The Eleventh National Conference for the Advancement of Mathematics Education in Israel	Tel-Aviv	Non-correct problems	
April, 2006	The 13 National Conference for the Advancement of Mathematics Education in Israel	Tel-Aviv	Creative Thinking Development in Mathematics lessons	
May, 2006	The National Conference of the Israel Mathematics Union	Neve Ilan	Investigation Tasks and Mathematical Creativity in MOFET Classes.	
July, 2013	The National Conference on Teaching Mathematics in Primary School	Shfaim	Nonstandard problems in Geometry as a tool for challenging students	



February, 2014	The Second National Jerusalem Conference on Research in Mathematics Education	Jerusalem	The City Mathematics Marathon – Students' Behavior and Attitudes	
July, 2015	The National Conference on Teaching Mathematics in Primary School	Bar Ilan University	From City Mathematical Marathon to Kangaroo Contest	
February, 2015	The Third National Jerusalem Conference on Research in Mathematics Education	Jerusalem	Challenge concept in the eyes of Mathematically promising students	
May, 2016	The National Conference on Teaching Mathematics in Primary School	Ramat Efal	Solving nonstandard problems from early childhood	
April, 2017	The National Conference on Teaching Mathematics in Secondary School	Ashkelon	Development of Spatial Abilities using nonstandard tasks	

**b. Organization of Conferences or Sessions**

<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Conference / Role at Conference / Comments</b>	<b>Role</b>
January, 2000	First South Conference for the Advancement of Secondary School Teachers Mathematics Education	Kaye Academic College of Education, Beer Sheva	Head of the program committee	
January, 2007	Forth National Conference for the Advancement of Primary School Teachers Mathematics Education	Kaye Academic College of Education, Beer Sheva	Head of the program committee	
February, 2008	International Workshop of the Templeton's Foundation, USA	University of Haifa	Member of the program committee	
January, 2018	KEd-2018 Conference (local)	Kaye Academic College of Education, Beer Sheva	Head of the program committee	
January, 2020	KEd-2020 Conference (National)	Kaye Academic College of Education, Beer Sheva	Head of the program committee	

## 7. Invited Lectures \ Colloquium Talks

<b>Date</b>	<b>Place of Lecture</b>	<b>Name of Forum</b>	<b>Presentation / Comments</b>
2001	Massachusetts Educational Centre, Newton, US.	Invited Lecturer	<i>Teaching Mathematics using the idea of Inquiry based Problems</i>
2005	Van-Lir Institute, Jerusalem, Israel	International seminar on Challenging Upper 20% of school students. The Israel Science Foundation, Ministry of Education.	<i>MOFET as program for challenging 'the top 20%' students in schools</i>
2006	Hebrew University, Jerusalem, Israel	Department Colloquium	<i>Inquiry based problem Mathematical Training for Intensification and Advancement in Gifted Students</i>
2008	University de Moncton, Canada.	Invited Lecturer	<i>Support to Mathematically Promising Students in Israel</i>
2009	Academy of Special Education, Warsaw, Poland	Invited Lecturer	<i>Challenging Mathematically Promising students</i>

<b>Date</b>	<b>Place of Lecture</b>	<b>Name of Forum</b>	<b>Presentation / Comments</b>
2010	Institute for Educational Research. Soreck, Poland	The first meeting of experts on “Recognizing mathematical talent in children and supporting their development at home, kindergarten and school”	<i>Views on teaching mathematically promising students</i>
2011	Tiberius, Israel	The Annual meeting of Israel Psychiatric Association	<i>Intuition, paradoxes and something between them</i>
2011	Ben-Gurion University, Beer-Sheva, Israel	I.N.B.A.L. meeting - encouraging girls to learning Engineering	<i>Geometry and Engineering</i>
2011	ORT, Tel Aviv	The Annual meeting of mathematics teachers in ORT association	<i>Paradoxes in mathematics and mathematical education</i>
2011	Mendel Institute, Beer-Sheva, Israel	Forum of Beer-Sheva’s primary schools’ principals	<i>The ways to challenge students in primary school in mathematics lessons</i>
2012	University of Haifa	International Research Workshop of The Israel Science Foundation	<i>Mathematical Competitions</i>
2013	Beer – Sheva's Teachers' Center	Regional Primary School teachers' meeting	<i>Learning meaningfully and teaching mathematics</i>

<b>Date</b>	<b>Place of Lecture</b>	<b>Name of Forum</b>	<b>Presentation / Comments</b>
2013	Moscow State University (Baku's brunch), Azerbaijan	Annual Colloquium on Mathematics Education	<i>The challenges in Mathematics Education in Century 21</i>
2014	Moscow State University (Baku's brunch), Azerbaijan.	Annual Colloquium on Mathematics Education	<i>Two Mathematics systems. History and facts.</i>
2014	Israeli Culture Center. Baku State University of Languages, Azerbaijan.	Invited Lecturer	<i>Mathematics and Language</i>
2014	Jerusalem Pisga Center	Regional Primary School teachers' meeting	<i>Learning meaningfully and challenging tasks</i>
2015	132-134 Educational Complex, Baku, Azerbaijan	Invited Lecturer	<i>Mathematics for everyone</i>
2016	Galil Academic College, Israel.	The Second Conference "Mathematics and Creativity"	<i>Students' Spatial abilities</i>
2016	Shevah Mofet School, Tel Aviv	Invited Lecturer	<i>The Importance of learning 5-th point' Mathematics</i>
2016	AMAL Centre, Tel Aviv	The Annual meeting of senior mathematics teachers in AMAL association	<i>Assessment and Mathematics</i>

<b>Date</b>	<b>Place of Lecture</b>	<b>Name of Forum</b>	<b>Presentation / Comments</b>
2017	Modern Educational Complex named after Heydar Aliyev, Baku, Azerbaijan	Invited Lecturer	<i>The Importance of learning Mathematics</i>
2018	Teachers' Centre, Beer Sheva, Israel	Organized by Ministry of Education – South Brunch	<i>Why should we learn Mathematics?</i>
*2019	Ministry of Education	Regional Primary School teachers' virtual meeting	<i>Challenging Mathematics</i>
*2019	University of Ariel	Invited Lecturer	<i>What predict success in Kangaroo Contest?</i>
*2019	Haifa University	Seminar on Challenges in Math Education	<i>Challenging students through Kangaroo Contest</i>
*2019	Simon Fraser University, Vancouver, Canada	Invited Lecturer	<i>Challenging Mathematics for Secondary school' students</i>
*2021	Ort Regional Seminar, Maale Hamisha	Invited Lecturer	<i>Back to the future and Math Education</i>
*2021	International Workshop on Mathematics Education, Hanoi, Vietnam	Keynote speaker	<i>Development STEM skills in early childhood</i>

## 8. Grants

### a. Grants Awarded

<b>Role in Research</b>	<b>Co-Researchers</b>	<b>Topic</b>	<b>Funded by / Amount</b>	<b>Year</b>
PI		Using Inquiry based problems in teaching Mathematics in Secondary School and Students' scores	Research Department, Kaye Academic College of Education 10,000 NIS	2002
PI	Leikin, R.	Looking back at the beginning: Critical Thinking in Solving Unrealistic problems	Research Department, Kaye Academic College of Education 10,000 NIS	2005
Co-PI	Freiman, V., Nicole Lirette-Pitre, N.	Marathon virtuel mathématique sur CASMI	CMS Endowment Grant 2,500\$	2007
PI	Leikin, R.	“Mathematical challenge in the eyes of the beholder: the case of mathematics teachers”	MOFET Institute 10,000 NIS	2008
Co-PI	Freiman, V., Nicole Lirette-Pitre, N.	Marathon virtuel mathématique sur CASMI	CMS Endowment Grant 2,000\$	2008

<b>Role in Research</b>	<b>Co-Researchers</b>	<b>Topic</b>	<b>Funded by / Amount</b>	<b>Year</b>
PI	Leikin, R., Freiman, V.	Prospective teachers' conceptions associated with teaching mathematically talented students: comparative examples from Canada and Israel	Research Department, Kaye Academic College of Education 10,000 NIS	2009
PI	Freiman, V.	Online Mathematical Competition: Using Virtual Marathon to Challenge Promising Students and to Develop Their Persistence	Research Department, Kaye Academic College of Education 10,000 NIS	2011
PI		Spatial Abilities as a Predictor to Success in the Kangaroo Contest	Research Department, Kaye Academic College of Education 5,000 NIS	2017
Co-PI	Leikin, R.	Development of PISA style' tasks	Trump Foundation, 3,500,000 NIS	2019
Co-PI	Leikin, R.	Kanga – Sprint Contest	Trump Foundation, 100,000 NIS	2020



**b. Educational Grants Awarded**

<b>Role</b>	<b>Topic</b>	<b>Funded by / Amount</b>	<b>Year</b>
PI	Using Math games in teaching math in primary school	Beer Sheva Municipality 100,000 NIS	2003- 2006
PI	Math Marathon for primary school students	Beer Sheva Municipality 300,000 NIS	2007- 2013
PI	Math Marathon for secondary school students in Bedouin Schools	Hevra LeMatnasim, 120,000 NIS	2007- 2010
PI	Kangaroo Project	Beer Sheva Municipality 490,000 NIS	2015 - 2021
PI	Kangaroo Project	Ramat Gan Municipality 300,000 NIS	2017- 2021
PI	Kangaroo Project	Ashdod Municipality 120,000 NIS	2017 - 2021
PI	Kangaroo Project	Dimona Municipality 120,000 NIS	2016 - 2021
PI	Kangaroo Project	Ministry of Education 1,200,000 NIS	2017 - 2020

## **9. Teaching**

### **a. Courses taught in recent years**

<b>Year</b>	<b>Name of Course</b>	<b>TYPE</b>	<b>Degree</b>	<b>Number of Students</b>
2002-today	Calculus 1 and 2	Lecture	B.Ed,	25
2012 - today	Development of Mathematical Thinking in grades 7-10	Workshop	B.Ed	20
2013-2014	The Challenges in Teaching Mathematically Promising Students	Workshop	M.Ed	20
2013-2014	From Problem to Solution	Workshop	M.Ed	20
2014-2016	Introduction to Differential Equations	Lecture	B.Ed	25
2016 - today	Methods of Teaching Mathematics	Workshop	MTeach	10

### **b. Supervision of Graduate Students**

<b>Name of Student</b>	<b>Title of Thesis</b>	<b>Degree</b>	<b>Date of Completion</b>	<b>Students' Achievements</b>
Gofman, L.	Challenging tasks in the eyes of primary school promising students	M.Ed	2015	
Elubra, E.	Gender differences in solving non-standard problems	M.Ed	2021	

Elatauna, A.	Question form, achievements, and gender	M.A.	2021	
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## **10. Miscellaneous**

- 1995-2001 Evaluation of Matriculation examination in Israel (5 point level).
- 1999-2001 Workshops for Mathematical Club' students in Ben Gurion University.
- 1999-2008 Tutor of Pedagogical Practice of Secondary School pre-service Teachers.
- 2004-2008 Workshops for Secondary school Mathematics' Teachers in MOFET Association.
- 2007-2011 Workshops for primary school Mathematics' Teachers in "Excellence in Mathematics" project, Municipality of Beer-Sheva city, Israel.
- 2015-2021 Workshops for primary school Mathematics' Teachers focused on "Development of students' Mathematical thinking".

## **Other Professional Experience**

- 1986-1987 Mathematics teacher, Grades 9-12, Professional High School 25, Baku, Azerbaijan
- 1987-1990 Mathematics teacher, Grades 8-10, High School 174, Baku, Azerbaijan
- 1991-1997 Mathematics teacher, Grades 10-12, Gimel High School, Beer-Sheva, Israel
- 1991-2001 Mathematics teacher, Grades 10-12, Zinman High School, Dmona, Israel

## PUBLICATIONS

### A. Ph.D DISSERTATION

*Teaching Mathematics using the idea of "Inquiry based problems" (170 pages, In Russian).*  
Department of Mathematics, Azerbaijan State Pedagogical University, Baku, Azerbaijan,  
2001.

*Supervisor:* Dr. Peter Samovol

### B. SCIENTIFIC BOOKS (Refereed)

#### Authored Books - published

1. Samovol, P., **Applebaum, M.**, Shapiro E., & Shechter, M. (2000). *The Methods of Solving Problems with Integer Numbers*. Ben Gurion University Publ. [86 pages]. (in Hebrew).
2. Gukov, A., Samovol, P., & **Applebaum, M.** (2006). *Elegant Mathematics in Tasks*, URSS, Moskva. [205 pages]. (In Russian).
- 2b. Gukov, A., Samovol, P., & **Applebaum, M.** (2008). *La Matematica Elegante*, URSS, Moskva. [232 pages]. (In Spanish).

### C. OTHER SCIENTIFIC BOOKS

3. **Applebaum, M.**, & Samovol, P. (2004). *Tests in Algebra for 7-th Grade*. Yesod, Tel-Aviv. [101 pages]. (in Hebrew).
4. **Applebaum, M.**, & Samovol, P. (2004). *Mathematics From School to University. Part 1: Induction*. Sefer Lakol, Tel-Aviv. [100 pages]. (in Hebrew).
5. **Applebaum, M.**, & Samovol, P. (2005). *Mathematics From School to University. Part 2: Introduction to Number's Theory*. Sefer Lakol, Tel-Aviv. [173 pages]. (in Hebrew).
6. **Applebaum, M.**, & Samovol, P. (2005). *120 tasks for Children Mathematical Thinking' Development (the 7th Grade)*. Yesod, Tel-Aviv. [54 pages]. (in Hebrew).
- 6b. **Applebaum, M.**, Aburis, Y., & Samovol, P. (2007). *100 problems and one problem for Mathematical Thinking Development (the 7th Grade)*. MOFET Association, Tel-Aviv. [48 pages]. (In Arabic).
7. **Applebaum, M.**, & Samovol, P. (2006). *Multiplication Impossible, 250 tasks for Children Mathematical Thinking' Development (the 8th Grade)*. Meirav, Tel-Aviv. [85 pages]. (in Hebrew).
8. Samovol, P., & **Applebaum, M.** (2012). *Through the challenge*. Shores, Tel-Aviv. [185 pages]. (In Hebrew).
9. **Applebaum, M.** (2017). *Kangaroo Contest for 2-d grade's students*. Yesod, Tel-Aviv. [104 pages]. (In Hebrew).
10. \***Applebaum, M.** (2019). *Kangaroo Contest for 1-st grade's students*. Yesod, Tel-Aviv. [56 pages]. (In Hebrew).

11. \***Applebaum, M.** (2019). *Kangaroo Contest for 3-d grade's students*. Yesod, Tel-Aviv. [56 pages]. (In Hebrew).
- 11b. \***Applebaum, M.** (2021). *Kangaroo Contest for 3-d grade's students*. Yesod, Tel-Aviv. [56 pages]. (In Arabic).
12. \***Applebaum, M.** (2019). *Kangaroo Contest for 4-th grade's students*. Yesod, Tel-Aviv. [56 pages]. (In Hebrew).
- 12b. \***Applebaum, M.** (2020). *Kangaroo Contest for 4-th grade's students*. Yesod, Tel-Aviv. [56 pages]. (In Arabic).
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## **E. ARTICLES OR CHAPTERS IN SCIENTIFIC BOOKS**

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## F. ARTICLES IN REFEREED CONFERENCE PROCEEDINGS

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9. **Applebaum, M.**, Leikin, R., & Freiman, V. (2008). Teachers' views on teaching mathematically promising students. *Paper presented at the 11th International Conference of Mathematics Education, ICME-11, Topic Study Group-6: Education of gifted students*. (5 370 words).
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9. **Applebaum, M.,** Leikin, R. (2007). Critical thinking of mathematics teachers. *Proceedings of the 5<sup>th</sup> International Conference: Teachers Education at a Crossroads.* (p.27). Beer Sheva, Tel Aviv, Israel.
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## G. OTHER SCIENTIFIC PUBLICATIONS

### ARTICLES IN PROFESSIONAL JOURNALS (NOT REFEREED)

1. **Applebaum, M.** (2013). About Mathematically promising students. *Kolot – Kaye College Journal on Education and Society.* (6, 32-36). (in Hebrew).
2. **Applebaum, M.** & Boroohovsky – Hadad, R. (2014). Virtual Mathematical Marathon. *Kolot – Kaye College Journal on Education and Society.* (7, 58-59). (in Hebrew).
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### Submitted papers:

1. **Applebaum, M.** & Zazkis, R. (2021). Mathematical challenge of seeking causality in unexpected results. *In R. Leikin (Editor). Mathematical Challenge for all* (20 pages). Springer.
2. **Applebaum, M.,** & Zamir, J. (2021). Making the Difference Training Early Childhood Math Teachers in STEM Skills. *Vietnam Journal of Educational Sciences* (30 pages).

## H. INTERVIEWS AND ARTICLES IN THE MEDIA

<b>Date</b>	<b>Subject</b>	<b>Medium and Format</b>
22.05.2017	Israeli kids participating in Kangaroo Contest	E-Journal <a href="https://detaly.co.il/izrailtyane-tozhe-nachali-igrat-v-kenguru/">https://detaly.co.il/izrailtyane-tozhe-nachali-igrat-v-kenguru/</a>
12.02.2018	Pre-service Mathematics Bedouin Teachers for Syrian Refugees	<a href="https://www.ynet.co.il/articles/0,7340,L-5089968,00.html">https://www.ynet.co.il/articles/0,7340,L-5089968,00.html</a>
06.03.2018	Arabic students participate in Kangaroo Contest	Channel Hela, extended interview
09.01.2019	Kangaroo Contest - for whom?	Channel 9, extended interview
08.02.2019	Interview with Ofer Matan	<i>Yediot Aharonot</i> newspaper
15.02.2019	Kangaroo Contest – what is it?	Radio REKA Interview, Israel
08.03.2019	Welcome to Kangaroo	Interview with Sharon Kantor ,Galei Tsahal
05.12.2019	Who plays Kangaroo	<i>News of the week</i> newspaper
26.03.2020	Kangaroo in COVID period	<a href="https://www.inn.co.il/News/News.aspx/431953">https://www.inn.co.il/News/News.aspx/431953</a>