Name: Naftaliev Elena

CURRICULUM VITAE

1. Personal Details

Home Address: Bar Kochva St. 113/7, Herzliya, 4600719, Israel

Home Telephone Number: +972-9-9797330

Cellular Phone: +972-54-6654146

Electronic Address: elenanaftaliev@gmail.com

2. Higher Education

A. Undergraduate and Graduate Studies

Period of Study	Name of Institution and Department	Degree
1982-1987	Faculty of Mathematics, Dagestan State University, Russia	MSc with distinction Thesis: Approximation of Convex Functions by Rational Fractions
2006-2012	Faculty of Education, University of Haifa, Haifa, Israel	PhD Thesis: Interactive Diagrams: Mathematical Engagements with Interactive Text

B. Post-Doctoral Studies

Period of Study	Name of Institution, Department and Host
2013-2015	The Center of Research Excellence (I-CORE) "Learning in a NetworKed Society (LINKS): Co-Creation of Knowledge in Technology-Enhanced Communities of Learning, University of Haifa, Israel With Prof. Yerushalmy Michal and in collaboration with Prof. Daniel Chazan, The Center for Mathematics Education, University of Maryland, USA (2013-2014)

3. Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank/Position
2000-2002	Management and Economics Department, Open University, Israel	Lecturer
2005-2006	The Institute for the Research of Alternatives in Education, University of Haifa	Researcher

2009 – 2010, 2013 – 2015	Faculty of Education, University of Haifa	Teaching Fellow
2012 – Present	Levinsky College of Education, Tel Aviv	Teacher
2012 – 2014	Achva College	Instructor (Dr.)
2014 – Present	Achva College	Lecturer

4. Offices in Academic Administration

2015 –2019 Head, program "Alpha" – Clinic preparation of math teachers for high school mathematics.

2020- Member, Committee for Technology and Pedagogy

5. Scholarly Positions and Activities

a. Reviewer

2012 – Present Educational Studies in Mathematics

2013 – 2016 The Journal for Research in Mathematical Education (Hebrew)

2014 – Present Journal for Research in Mathematics Education

2020- Present The Journal of Mathematical Behavior

2020- Present International Journal of Mathematical Education in Science and Technology

b. Membership in Professional Societies

2007 IADIS – International Association for Development of the Information Society

2009, 2016 2018 International Group for the Psychology of Mathematics Education

*2015- The International Community of Teachers of Mathematical Modelling and Applications

c. Member of Mathematical Competitions Committees

*2016- National representative of the International Mathematical Modeling Challenge , http://immchallenge.org/Index.html

6. Participation in Scholarly Conferences

a. Active Participation

International Conferences

Date	Conference	Place of Conference	Subject of Lecture/Discussion	Role
12.2007	Cognition & Exploratory Learning in Digital Age	Algrave, Portugal	Learning Mathematics with Interactive Diagrams	
07.2009	The 33rd Annual Conference of the International Group for the Psychology of Mathematics	Thessaloniki, Greece	Interactive Diagrams: Alternative Practices for the Design of Algebra Inquiry	Chair of session
07.2012	The 12th International Congress on Mathematical Education (ICME-12)	Seoul, Korea,	Interactive Diagrams: Mathematical Engagements with Interactive Textbooks	
04.2014	**Seminar, Center for Mathematics Education**	**Maryland University, USA**	**Interactive Diagrams: Mathematical Engagements with Interactive Text**	
06.2015	The 12th International Conference on Technology in Mathematics	Faro, Portugal	Guiding Student Instruction with an Interactive Diagram: The Case of Equations.	

	Teaching (ICTMT 12)			
*07.2015	The 17th International Conference on the Teaching of Mathematical Mode lling and Applications.	Nottingham, UK	Interactive Diagrams Used for Collaborative Learning Concerning Math Models of Motion.	
*06.2016	The 3rd Manchester Conference on Mathematics Education and Contemporary Theory (MECT 3).	Manchester, UK	Semiotic Framework for Pedagogical Design of Interactive Texts.	
***07.2016**	**The 13th International Congress on Mathematics Education (ICME-13)**	**Hamburg, Germany**	**Engagements of Prospective Teachers with E-textbook**	**Invited lecture at Topic Study Group on Research on Resources**
*05.2017	The 2d International Conference on Mathematics Textbook Research and Development	Rio de Janeiro, Brazil	Pedagogical Functions of Interactive Texts	
*07.2017	The 18th International Conference on the	Cape Town, South Africa	Student Engagement with Interactive Modeling	Chair of session

	Teaching of Mathematical Modelling and Applications.		Activities Presented by Interactive Texts	
*05.2018	The Re(s)sources Conference	Lyon, France	Prospective Teachers' Interactions with Interactive Diagrams: Semiotic Tools, Challenges and New Paths	
***11.2018**	**The 5th International Conference "Trends in Research-Based Mathematics Education"**	**Puebla, Mexico**	**Interactive Curriculum Materials: Challenges and New Avenues for the Construction of Mathematical Meaning**	**Keynote speaker**
*06.2019	The 7th International Conference on Teacher Education - The Story of Innovation in Teacher Education	Tel Aviv, Israel	Prospective Teachers' Interactions with Interactive Materials: Semiotic Tools, Challenges and New Avenues	
*07.2019	The 19th International Conference on the Teaching of Mathematical Modelling and Applications	Hong Kong	Video Clip and Animation of Motion as a Context for Active Modelling Performance	Chair of session

*07.2019	The 19th International Conference on the Teaching of Mathematical Modelling and Applications	Hong Kong	Ethno-Modelling in the Bilingual Jewish –Arab School in Israel	
*09.2020	The 2d Conference for Mathematics Education in the Digital Age (MEDA)	Linz, Austria	The Social Development of Knowledge in a New Pedagogical Setting: The Same Activity Presented as Three Different Interactive Diagrams	

National Conferences

1998	The 5th Annual Conference for Mathematical Education in Israel	Learning Mathematics with Technology in a Heterogeneous Classroom.	
2000	The 7th Annual Conference for Mathematical Education In Israel	Learning Mathematics with Technology: How is the Teaching Method Reflected in the Results of the State Test?	
2002	The 9th Annual Conference for Mathematical Education in Israel	Solving Word Problems	
2003	The 10th Annual Conference for Mathematical Education in Israel	Do the Commutative Property also Takes Place when Multiply Functions: The Case of Distance Learning in Subject of Functions?	
2003	The 18th Annual Conference on Technology in Education	Interactive Textbook: Functions	
2004	The 11th Annual Conference for Mathematical Education in Israel	Multiple-Roots Equations	
2004	The 19h Annual Conference on Technology in Education	Motion Model: Move On!	

2005	The 20th Annual Meeting of Technology in Education	The Development of Mathematical Literacy as a Motto for Teaching and Learning in a Technology Environment	
2007	The Annual Conference for Mathematical Education in High School in Israel	"Negative and Positive Numbers" – Reflections on the Teaching Components	
2006	Summer School: "Inquiry Based Teaching-Learning of Mathematics". Department of Technology and Science Teaching, Technion, Haifa.	Students Learn Algebra in the Environment: "Visual Math: Functions"	
2008	The VIII Seminar for Doctoral Students in Science, Mathematics and Technology, Nir Etzion.	Analysis of Interactive Diagrams Modifications as a Part of the Problem-Solving Process in Mathematics	
2009	"Thinking Math"-The Seminar of Department of Mathematical Education, Faculty of Education, University of Haifa.	Interactive Diagrams: An Alternative Way to Design an Inquiry in Algebra	
2011	**Learning Forum, the Center for Educational Technology**	**Learning with Interactive Textbooks- from Research to Practice. Thinking about a Possible Implementation of the Semiotic Framework for Design Textbooks in Different Content Fields**	**Invited lecture**
2011	The Mathematics Department Seminar, the Center for Educational Technology	The Build-A-Book Geometry Class	
2012	**The Mathematics Department Seminar, Levinsky College**	**The Meanings of Mathematical Engagement with Interactive Textbooks**	**Invited lecture**
2012	**The languages Department Seminar, the Center for Educational Technology**	**Meanings of Engagement with Interactive Text. A Discussion about the Research and Application for the Design of Language Textbooks.**	**Invited lecture**
2012	**Seminar: "Teaching Mathematics with Digital Curriculum Materials -A View from Academy, from Training of Teachers and from Schools, Mofet Institute**	**Interactive diagrams: Meanings of Mathematical Engagement with E-text**	**Invited lecture**

2012	The National Conference of Mathematical Education in the Elementary School: "21st Century Skills in Learning and Teaching of Mathematics in the Elementary School".	Digital Textbooks: New Possibilities for Teaching and Learning	
2012	Doctoral Students Conference, Faculty of Education, University of Haifa	Interactive diagrams: Meanings of Mathematical Engagement with Electronic Text	
2012	A Conference of PhD Graduates in Teaching of Mathematics, Technology and Science, Technion	Interactive diagrams: Meanings of Mathematical Engagement with E-text	
2015*	Learning in a NetworKed Society (LINKS): Co-Creation of Knowledge in Technology-Enhanced Communities of Learning, 3rd Annual Retreat. Beer Sheba, Israel.	Mathematical Text Design: The Semiotics and Pedagogies of Interactive Diagrams.	
2016*	The 4th Jerusalem Conference on Research in Mathematics Education (JCRME)	Semiotic Aspects in Research on Design of Interactive Learning-Teaching Materials	Chair of Symposium
2017*	Conference of Pedagogical Instructors, Achva Academic College	Interactive Comics as a Tool for Creating and Analyzing Teaching Scenarios	
2017*	**The 5th Jerusalem Conference on Research in Mathematics Education (JCRME)**	**Mathematics, Pedagogy, Technology**	**Plenary lecture**
2018*	The 6th Jerusalem Conference on Research in Mathematics Education (JCRME)	Constructing an Invented Concept ("Definition" and "Image" of a Concept) by Students and the Prototype Phenomenon	
2020*	The Annual virtual Meeting of the Israel Mathematical Union (IMU 2020)	Experimental Mathematics at School – a Three-Faced Coin: Mathematical, Didactic and Research Aspects.	

b. Organization of Conferences or Sessions

Date	Name of Conference	Place of Conference	Subject of Conference/ Role at Conference/ Comments	Role
*2015	The 3rd Jerusalem Conference on Research in Mathematics Education (JCRME)	Jerusalem	Research in Mathematics Education	Member of Program Committee
*2016	The 4th Jerusalem Conference on Research in Mathematics Education (JCRME)	Jerusalem	Symposium: Semiotic Aspects in Research about Teaching-Learning with Interactive Curriculum Materials	Chair of Symposium
*2016	The 4th Jerusalem Conference on Research in Mathematics Education (JCRME)	Jerusalem	Research in Mathematics Education	Chair of Conference
*2017	From Mathematics Teaching to High-Tech and Back	Achva Academic College	Mathematics Teaching and High-Tech Industry	Member of Program Committee

7. Invited Lectures\ Colloquium Talks

Date	Place of Lecture	Name of Forum	Presentation/Comments
2011	The Center for Educational Technology, Tel-Aviv	Learning Forum	Learning with Interactive Textbooks-From Research to Practice. Thinking about a Possible Implementation of the Semiotic Framework for Design Textbooks in Different Content Fields
2012	Levinsky College, Tel-Aviv	The Mathematics Department Seminar	The Meanings of Mathematical Engagement with Interactive Textbooks
2012	The Center for Educational	The Languages Department Seminar	Meanings of Engagement with Interactive Text. A Discussion about the Research and Application for

	Technology, Tel-Aviv		the Design of Language Textbooks.
2012	Mofet Institute, Tel-Aviv	The Seminar: "Teaching Mathematics with Digital Curriculum Materials -A View from Academy, from Training of Teachers and from Schools"	Interactive Diagrams: Meanings of Mathematical Engagement with E-text
2014	Maryland University, USA	Seminar, Center for Mathematics Education	Interactive Diagrams: Mathematical Engagements with Interactive Text
*2016	Hamburg, Germany	The 13th International Congress on Mathematics Education (ICME-13), Topic Study Group on Research on Resources	Engagements of Prospective Teachers with E-textbook
*2017	Jerusalem, Israel	The 5th Jerusalem Conference on Research in Mathematics Education (JCRME)	Mathematic, Technology, Pedagogy
*2018	Puebla, Mexico	The 5th International Conference "Trends in Research-Based Mathematics Education https://www.fcfm.buap.mx/TEMBI/talleres.php	Interactive Curriculum Materials: Challenges and New Avenues for the Construction of Mathematical Meaning

8. Research Grants

a. Grants Awarded

Role in Research	Co-Researchers	Topic	Funded by	Year
Researcher	Prof. Yerushalmy, PI	Exploring Interactive Diagrams-Based Problem Solving Within Mathematics Web Environments	ISF (grant No. 236/05) (73,599 USD)	2005-2009
*Founder and Director	Dr. Guberman and Dr. Barabash	Project for Clinic Preparation of Math Teachers for High School Mathematics.	The Trump Foundation (1,700,000 NIS)	2015-2019
*PI	Prof. Barabash	Experimental Mathematics at School:	ISF	2019-2023

		Leading Teachers Towards a Change	(840,000 NIS)	

b. Submission of Research Proposals – Not Funded

Role in Research	Co-Researchers	Topic	Funded by	Year	Score
*PI	Prof. Barabash	Interactive Tools in Mathematics Teaching: From a Transitory Episode to Educated Usage Inherent to the Teachers' Classroom Practice	Chief Scientist's Office, Ministry of Education	2016	The Proposal Passed to the Final Round of the Competition

8. Scholarships, Awards and Prizes

Role	Topic	Funded by	Grants Year
Postdoctoral Fellow	Design Principles and Functions of Interactive Text in Math E-Textbooks	I-CORE Program of the Planning and Budgeting Committee and The Israel Science Foundation (1716/12) (186,000 NIS)	2013-2015
Developer (Developed with Dr. Guberman)	Course in Arithmetic for First Year Students	Achva Academic College (2000 NIS)	2014-2015
*Excellent Lecturer Award		Achva Academic Colledge (15% of the annual salary)	2016-2017
*Excellent Lecturer Award		Achva Academic Colledge (20% of the annual salary)	2018-2019

9. Teaching

a. **Courses Taught in Recent Years**

Year	Name of Course	Type of Course	Degree

2012 – Present	Technology in Mathematics Education	Seminar	Graduate
2012-2016	Theory and Practice in Mathematics education	Seminar	Undergraduate
2012-2018	Methods of Assessment, Summative Assessment	Workshop	Undergraduate
2012-2018	Teaching and Learning of Mathematics	Workshop	Undergraduate
2012-2018	Geometry	Workshop	Undergraduate
2012 – Present	Foundations of Mathematics	Workshop	Undergraduate
2015 – Present	Integrative Course-Algebra and Calculus	Course	Teaching certificate
2016 – Present	Writing of Final Project	Workshop	Graduate
2016 – Present	Research Methods	Course / Workshop	Graduate
2019- Present	Number Theory	Course	Undergraduate

b. **Supervision of Graduate Students**

Name of Student	**Title of Thesis**	**Degree**	**Date of Completion / in Progress**	**Students' Achievements**
*Eitan Schneider	The Role of Interactive tool "Broken Calculator" in	M.Ed	2018	95

	Developing Number Sense			
*Rula Gharra	Ethnomathematics in the Bilingual Jewish-Arab School in Israel	M.Ed	2018	92
*Hadar Cohen	Elementary Students' Beliefs about Mathematics	M.Ed	2018	70
*Sherry Dahan	The Development of Early Algebra Thinking of Elementary Students with Interactive Tools	M.Ed	2020	88
*Efrat Adar	Solving Equations with Models in Elementary School	M.Ed	2020	90
*Mor Perez Dahan	Teachers' Mathematical Knowledge and Students' Mathematical Language	M.Ed	2020	90
*Tanya Shaulov	Using Cooking Activities to Develop Elementary Students' Understanding of Ratio	M.Ed	2020	75

10. Professional Experience

1987-1993 Mathematics Teacher, Grades 7-12, Dagestan State University High School, Russia.

1994-2005 Mathematics Teacher, Grades 7-9, Rashish, Petach Tikva (Prize Ministry of Education for using innovative technologies in teaching), Israel.

1996 – 2012 Member of the Math Team, CET - Center of Educational Technology:

- Teaching In-Service courses and workshops for mathematics teachers, focusing on engaging computer programs in high school mathematics teaching.
- Member of the development team of high school computed learning environments for mathematics.
- Member of the development team of middle school textbooks for mathematics.

2004 –2005 Member of the development team of METZAV TEST (Indicators of school efficiency and growth, a national test) for 8th grade in Mathematics.

PUBLICATIONS

Published

A. Articles in Refereed Journals

1. Naftaliev, E., & Yerushalmy, M. (2011). Solving algebra problems with interactive diagrams: Demonstration and construction of examples. *Journal of Mathematical Behaviour*, 30*(*1), 48-61. Q1

2. Yerushalmy, M., & Naftaliev, E. (2011). Design of Interactive Diagrams Structured Upon Generic Animations. *Technology, Knowledge and Learning*, 16*(3)*, 221-245. DOI: 10.1007/s10758-011-9183-0. Q1

3. Naftaliev, E., & Yerushalmy, M. (2013). Guiding Explorations: Design Principles and Functions of Interactive Diagrams. *Computers in the Schools*, *30*(1-2), 61-75. http://dx.doi.org/10.1080/07380569.2013.769084 .Q2

4. *Swidan, O. & Naftaliev, E. (2019). The Role of the Design of Interactive Diagrams in Teaching–Learning the Indefinite Integral Concept, *International Journal of Mathematical Education in Science and Technology*. DOI: 10.1080/0020739X.2018.1522674. Q2

5. *Ayalon, M., Naftaliev, E., Levenson, E. S., & Levy, S. (2020). Prospective and In-Service Mathematics Teachers' Attention to a Rich Mathematics Task While Planning its Implementation in the Classroom. *International Journal of Science and Mathematics Education*. DOI: https://doi.org/10.1007/s10763-020-10134-1 Q1

B. Edited Peer Reviewed Book

6. *Naftaliev, E., & Adin, N. (2016). *The Proceedings of the 4th Jerusalem Conference on Research in Mathematics Education.* Mofet. (117 pages, Hebrew) http://www.mofet.macam.ac.il/amitim/iun/JCRME4/Documents/JCRME4-FullText.pdf

C. Chapters in Peer Reviewed Books

7. *Naftaliev, E., & Yerushalmy, M. (2017). Design digital tasks: Interactive Diagrams as resource and constraint. In Leung, A. & Baccaglini-Frank, A. (Eds), The Role and Potential of using Digital Technologies in Designing Mathematics Education Tasks, 153-173. Springer.

8. *Naftaliev, E., (2017). Interactive Diagrams Used for Collaborative Learning Concerning Mathematical Models of Motion. In Stillman, G., Blum, W. & Kaiser, G. (Eds), *Mathematical Modelling and Applications: Crossing and Researching Boundaries in Mathematics Education.* 553-563. Springer.

9. *Naftaliev, E., (2018). Prospective Teachers' Interactions with Interactive Diagrams: Semiotic Tools, Challenges and Well-Trodden Paths. In Fan, L., Trouche, L., Qi, C., Rezat, S. & Visnovska, J. (Eds), *Research on Mathematics Textbooks and Teachers' Resources: Advances and Issues*, 297-314. Springer.

10. *Drijvers, P., Gitirana, V., Monaghan, J., Okumus, S., Besnier, S., Pfeiffer, C., Mercat, C., Thomas, A., Christo, D., Bellemain, F., Faggiano, E., Orozco-Santiago, J., Ndlovu, M., Van Dijke-Droogers, M., Ignácio, R., Swidan, O., Filho, P., Albuquerque, R., Hadjerrouit, S., Ülger, T., Fidje, A., Cunha, E., Araque, F., Nongni, G., Igliori, S., Naftaliev, E., Psycharis, G., Carton, T., Skott, C., Gaona, J., Lucena, R., Júnior, J., Tibúrcio, R. & Rodrigues, A. (2019). Transitions Toward Digital Resources: Change, Invariance, and Orchestration. In Trouche L., Gueudet G., Pepin B. (Eds), *The 'Resource' Approach to Mathematics Education. Advances in Mathematics Education.* 389-444. Springer, Cham.

D. Articles in Peer-Reviewed Conference Proceedings

1. Yerushalmy, M. & Naftaliev, E. (2007). Learning Mathematics with Interactive Diagrams. *In the Proceedings for "Cognition & Exploratory Learning in Digital Age" (CELDA)*, 123-130, Algrave, Portugal.

2. Naftaliev, E. & Yerushalmy, M. (2009). Interactive Diagrams: Alternative Practices for the Design of Algebra Inquiry. *In the Proceedings of the 33rd Annual Conference of the International Group for the Psychology of Mathematics Education*, 185-192. Thessaloniki, Greece.

3. Naftaliev, E. & Yerushalmy, M. (2012). Interactive Diagrams: Mathematical Engagements with Interactive Textbooks. *In the Proceedings of the 12th International Congress on Mathematical Education (ICME-12)*, Seoul, Korea. http://www.icme12.org/upload/UpFile2/TSG/1286.pdf

4. Naftaliev, E. & Yerushalmy, M. (2012). Interactive Diagrams: Mathematical Engagements with Interactive Textbooks. *In the Proceedings of the International Colloquium "The Didactics of Mathematics: Approaches and Issues". A Hommage to Michèle Artigue.* France, Paris.

5. Yerushalmy, M. & Naftaliev, E. (Plenary) (2013). E-Textbook for Mathematical Inquiry: Design of Engagements & Boundaries. ICMI Study 22: Task Design. University of Oxford, UK. http://www.mathunion.org/icmi/digital-library/icmi-study-conferences/icmi-study-22-conference/

6. *Naftaliev, E., & Yerushalmy, M. (2015). Guiding Student Instruction with an Interactive Diagram: the Case of Equations. *In the Proceedings of the 12th International Conference on Technology in Mathematics Teaching – ICTMT 12, Faro, Portugal.*

7. *Naftaliev, E. (2015). Interactive Diagrams used for collaborative learning concerning math models of motion. *The 17th International Conference on the Teaching of Mathematical* Modelling *and Applications.* Nottingham, UK.

8. *Naftaliev, E., (2016). Engagements of Prospective Teachers with E-textbook. Invited paper to be included in TSG-38 (Topic Study Group on Research on

resources (textbooks, learning materials etc.)). *The 13th International Congress on Mathematical Education (ICME-13),* Hamburg, Germany.

9. *Naftaliev, E., Swidan, O., & Yerushalmy, M. (2016). Semiotic framework for research about design of interactive curriculum materials in math. *In the Proceedings of the 4th Jerusalem Conference on Research in Mathematics Education.* (Hebrew)

10. *Naftaliev, E., (2017). Mathematic, technology, pedagogy. *In the Proceedings of the 5th Jerusalem Conference on Research in Mathematics Education.* Jerusalem, Israel (Hebrew).

11. *Naftaliev, E., (2017). Pedagogical functions of interactive texts. *In Proceedings of the 2d International Conference on Mathematics Textbook Research and Development (ICMT),* Rio de Janeiro, Brasil.

12. *Naftaliev, E., (2017). Student engagement with interactive modeling activities presented by interactive texts. *In the Proceedings of the 18th International Conference on the Teaching of Mathematical Modelling and Applications*.

13. *Naftaliev, E., (2017). Interactive diagrams used for collaborative learning. *In the Proceedings of the 13th International Conference on Technology in Mathematics Teaching*, 32-39. Lyon, France.

14. *Naftaliev, E., & Hershkovitz, R. (2018). Do Self-Invention of Geometrical Concepts is Prototypes free? *In the Proceedings of the 6th Jerusalem Conference on Research in Mathematics Education.* Jerusalem, Israel (Hebrew).

15. *Naftaliev, E. (2018). Prospective teachers' interactions with interactive diagrams: semiotic tools, challenges and new paths. *In the Proceedings of the Re(s)sources Conference, 304-308.* Lyon, France.

16. *Naftaliev, E., (2019). Video Clip and Animation of Motion as a Context for Active Modelling Performance. *In the Proceedings of the 19th International Conference on the Teaching of Mathematical Modelling and Applications, Hong Kong.*

17. *Naftaliev, E., & Garra, R. (2019). Ethno-Modelling in the Bilingual Jewish–Arab School in Israel. *In the Proceedings of the 19th International Conference on the Teaching of Mathematical Modelling and Applications, Hong Kong.*

18. *Naftaliev, E., (2020). The Social Development of Knowledge in a New Pedagogical Setting: The Same Activity Presented as Three Different Interactive Diagrams. *In the Proceedings of the 2d Conference for Mathematics Education in the Digital Age (MEDA)*, 475-483. Linz, Austria.

E. Other Scientific Publications

Scientific Reports

1. *Analyzing Effects of Animations and Multi-Representations Tools: Learning the Mathematics of Motion with Interactive Diagrams*. (With Yerushalmy, M.). Report for ISF Grant 236/05. 2007.

2. *Multiple representation, technology and Interactive Diagrams (IDs) in the Context of Algebra.* (With Yerushalmy, M.). Final report for ISF Grant 236/05. 2009.

F. Other Works Connected to my Scholarly Field

Textbooks and Learning Materials in Hebrew

3. *Visualizing Mathematics*, series of booklets for student and teacher guides. CET, (1995-2002), (Member of the development team)

4. *Calculus Database: an interactive inquiry-based activity on the web*. CET, (2005-2006). (Member of the development team)

5. *Shvilim,* series of nine interactive mathematics textbooks for student and teacher guides. CET, (2004-2012). (Member of the development team)

6. *Mathematics for middle school,* series of five interactive mathematics textbooks for student and teacher guides. CET, (2013-2014). (Member of the development team), http://www.school.kotar.co.il/KotarApp/Viewer.aspx?nBookID=100983257#1.7955.6.default

G. Submitted Publications

7. *Naftaliev, E. & Hershkowitz, R. (Submitted). “Build a concept" – The concept’s critical attributes as mediators between the concept’s definition and the concept’s image of a new invented concept.