

**Name: Dr. Irina Gurevich –Leibman**

Date : January, 2014

CURRICULUM VITAE AND LIST OF PUBLICATIONS

**Personal Details**

Date of immigration June, 1987  
Regular military service  
(dates)

**Education**

B.Sc. and M.Sc	1971-1977	Polytechnic University, Leningrad (St-Petersburg	Electro-Mechanic Dept.
		A mathematical model of complicated electrical network Dr. A. Rubashov	
Ph.D	1988-1993	Weizmann Institute	Department Of Applied Mathematics and Computer Sciences
		Strategies of motor adaptation to external loads during planar two-joint arm movement Prof. Tamar Flash	

**Employment History**

Years	Rank/Title/Function (indicate if tenured)	University/Institution
1996-now	Lecturer	Achva Academic College of Education
2010-now	Lecturer	Givat Washington College of education
2006-2009	Lecturer	Academic College of Judea and Samaria
1997-2004	Lecturer	Askelon Academic College
1995- 1996	Scientist	The Wingate Institute, The Bio-Mechanic Lab
1994-1995	Lecturer	Key Academic College, Beer-Sheva
1994-1996	Lecturer	The Center for Technological Education, Holon
1994-1995	Postdoctorate	Ben-Gurion University
1988-1993	Ph.D. research student	Weizman Institute
1987-1988	Programmer	Weizman Institute
1980-1987	Programmer	R&D Institute "VPTY Energomash", Leningrad
1977-1980	Programmer	R&D Institute "Gidroproekt, Leningrad

**Professional activities**

<u>Courses taught</u> Name of course -	level	Institution(s)
Math Analysis (2-3)	Undergraduate	Givat Washington Academic College, Dept. of Mathematics
Complex Functions	Undergraduate	Givat Washington Academic College, Dept. of Mathematics
Transformations in plane	Undergraduate	Achva Academic College of Education, Dept. of Mathematics
Probability Theory	Undergraduate	Achva Academic College of Education, Dept. of Mathematics
Introduction to Statistics	Undergraduate	Achva Academic College of Education, Dept. of Mathematics
Combinatorics	Undergraduate	Achva Academic College of Education, Dept. of Mathematics
Introduction to Physics	Undergraduate	Achva Academic College of Education, Dept. of Mathematics
Linear Algebra	Undergraduate	Achva Academic College of Education, Dept. of Mathematics
Usage of computerized environment in Geometry teaching	Undergraduate	Achva Academic College of Education, Dept. of Mathematics
Matlab for Math students	Undergraduate	Achva Academic College of Education, Dept. of Mathematics
Applied Mathematics with Matlab	Undergraduate	Academic College of Judea and Samaria, Dept. of Computer Sciences
"Introduction to Computer Sciences (UNIX)", 1 <sup>st</sup> year	Undergraduate	The Center for Technological Education, Holon, Dept. of Computer Sciences
"C++" 2 <sup>nd</sup> year,	Undergraduate	The Center for Technological Education, Holon, Dept. of Computer Sciences
Introduction to Computer Sciences (Java)",	Undergraduate	Achva Academic College of Education (joint with Ben-Gurion University, Dept. of Computer

		Sciences)
		Academic College of Judea and Samaria, Dept. of Computer Sciences
"Data Structure", 1 <sup>st</sup> year	Undergraduate	Achva Academic College of Education (joint with Ben-Gurion University, Dept. of Computer Sciences)
"Computer Languages	Undergraduate	Askelon Academic College (joint with Bar-Ilan University, Dept. of Computer Sciences)
		Academic College of Judea and Samaria, Dept. of Computer Sciences
Assembler",	Undergraduate	Askelon Academic College (joint with Bar-Ilan University, Dept. of Computer Sciences)
		Academic College of Judea and Samaria, Dept. of Computer Sciences
"Operating System	Undergraduate	Ashkelon Academic College (joint with Bar-Ilan University, Dept. of Computer Sciences)
		Academic College of Judea and Samaria, Dept. of Computer Sciences
"Computer Application Courses – SPSS, Matematics, Excel" 1 <sup>st</sup> , 2 <sup>nd</sup>	Undergraduate	Achva Academic College of Education
Biomechanics	Undergraduate	Kei Academic College of Education
Biomechanics - a part of the course "Sport Medicine	Undergraduate	Tel-Aviv University, Medical School

### Scientific Publications

(a) Chapters in books collective volumes

1. Flash T., Gurevich I., Henis E. Characterizing and Modeling Human Arm Movements Insights Into Motor Organization. In: Advances in Processing and Pattern Analysis Biological Signals. Eds. Gath and Inbar. Plenum Publ.Co New-York. 1995, pp 391-411 (published)
2. Flash T., Gurevich I. Model of Motor Adaptation and Impedance Control in Human Arm Movements. In: Self-organization, computational maps and motor control. Eds. Morasso and Sanguineti. Elsevier Science Publishers, North-Holland, Amsterdam, 1996, pp 423-481 (published)

(b) Refereed articles in scientific journals - running numbers

1. Slutski L., Gurevich I. and Edan Y. (2000) Analysis and Enhancement of Human-Machine Interfaces Using a Joystick Controller. *Human Factors and Ergonomics in Manufacturing*, John Wiley & Sons. Inc. , 10 (2), 161-175, (published)
2. Tal S., Gurevich A., Guler V., Gurevich I., Levi S. (2002) Risk Factors for Recurrence of Clostridium Difficile associated Diarrhea in the Elderly. *Scandinavian Journal of Infectious Diseases*, 34, 594-597. (published)
3. Tal S., Guler V., Levi S., Bardenstein R, Berger D. , Gurevich I., Gurevich A. (2005) Profile and prognosis of febrile elderly patients with bacteremic urinary tract infection. *Journal of Infection*, 50, 296-305, 2005 (published)
4. Gurevich I. , Gorev D. and Barabash M. (2005) Computer as an aid in development of geometrical proficiency: a differential approach. *International Journal of Mathematical Education in Science and Technology*, 36(2-3), 289-304. (published)
5. Barabash M., Gurevich I., Yanovski L.(2009) Usage of computerized environment in the course "Plane Transformations and Constructions in Geometry". *The International Journal for Technology in Mathematics Education*,16(2), 49-62. (published)
6. Gurevich I., Gorev D. (2012) Examining the impact of an integrative method of using technology on students' achievement, efficiency of computer usage and pedagogic procedure in Geometry. *The International Journal for Technology in Mathematics Education*, 19(3), 95-104.

(c) Papers in Conference proceedings

1. Flash T. and Gurevich I. (1991) Arm stiffness and movement adaptation to external loads. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, 13(2), 885-886. (published)
2. Flash T. , Gurevich I., Arnon Y. and Jordan M. (1995) Motor Adaptation and Learning in Human Arm Trajectory Control. *The 3<sup>rd</sup> Israeli Symposium on Robotics. General robotics and robotics in medicine*, Herzlia Israel, 108-111. (published)
3. Gurevich I. And Flash T. (1995) Arm postural stiffness field variations with external loads. *The Proceedings of the XVth Congress of the IBS*, Yuvaskula, Finland , 352-353. (published)

4. Slutski L. , Gurevich I. And Edan Y. (1997) Analysis and Design of Telerobot Control Based on Human Motor Behavior Study. *Proceeding of the 1997 IEEE International Conference on Robotics and Automation, Albuquerque, New Mexico*, 1016-1021. (published)
5. Gorev. D., Gurevich I., Barabash M. (2004) Will “The way they teach” be “The way they have learned”? Pre-service teachers’ beliefs concerning computer embedding in math teaching. *Proceedings of the 28th International Conference for Psychology of Mathematics Education in Bergen, Norway*, 2 , 487-494. (published)
9. Gorev D., Gurevich I., Barabash M. (2004) How is the efficiency of the computer usage in geometry related to the levels of students’ learning abilities? *The 10th International Congress on Mathematical Education (ICMI), Copenhagen, Denmark*, . <http://www.icme10.dk>, (published)
10. Gorev D., Barabash M., Gurevich I. (2006) Turning Non-Routine Geometrical Problems into Routine Ones: How the DGE Can Help? *The proceeding of ICTM3, Turkey, Istanbul*. (published)
11. Gorev D., Gurevich I., Barabash M. (2008) Solving construction problems of different levels of insight: how students of various levels profit from the computerized environment? *The 12th International Congress on Mathematical Education TSG12, Mexico*.
12. Gurevich I. (2012) Students’ attitudes about integrating dynamic geometry software in teaching constructions in geometry. *International Conference on Information and Communication Technologies and Education (ICICTE 2012) Proceedings*, pp 581-591, July, Rhodes, Greece.

(f) Published scientific reports and technical papers

1. Gurevich I., Gorev D., Barabash M.. (2004) The contribution of Geometric Tool Software for Geometric Teaching – Selective Use upon the Student Level, Achva Academic College, supported by Mofet Institute.
2. Barabash M., Gurevich I., Gorev D.. (2006) The Development of Insight in Construction Problems of Plane Geometry With or Without Computer Usage, Achva Academic College, supported by Mofet Institute .

**Present Academic Activities**

1. Usage of computerized environments in teaching Mathematics.
2. Development of mathematical concepts in mathematical education students.

**Articles to be published in preparation**

1. Dvora Gorev, Irina Gurevich. Computer as an aid in development of geometrical proficiency. A differential approach accounting for the complexity of problem. (submitted to the *International Journal of Mathematical Education in Science and Technology*).

