May 2021

Curriculum Vitae and List of Publications

PROF. MINA TEICHER

Emmy Noether Research Institute for Mathematics and Gonda Brain Research Center
Bar-Ilan University, Ramat-Gan, Israel

1. Education

Date	*Institute*	*Field*	*Degree*
1974	Tel-Aviv University	Mathematics	B.Sc., Highest Honors
1976	Tel-Aviv University	Mathematics	M.Sc., Highest Honors
1981	Tel-Aviv University	Mathematics	Ph.D.

Doctoral Thesis: "Factorization of birational morphisms between 4-folds"
Thesis advisor: Prof. Piatetski-Shapiro

2. Research Topics

a. Geometry and Topology

Birational Methods in Algebraic Geometry
Topology of Algebraic Surfaces
Fundamental Groups
Arrangements
Braid Groups

b. Neuro-Mathematics

Algebraic-Geometrical Methods in Robotics
Compositionality and Synchronization in Neural Activity of Behaving Animals
Data Mining and Singularities in Sleeping Phases
Voice Recognition
Genetic Algorithms and Wavelets in Epilepsy

c. Applied Mathematics and Computer Science

Algebraic-Geometrical Methods in Computer Vision and Electro-optics
Braid Group in Cryptography
Surface Reconstruction and CAD-CAM
Networks and Graphs

d. Math Education

3. Short Term Professorships and Visiting Positions

University/Institute	*Date*
Institute for Advanced Study, Princeton, USA	1981, 1986, 2007, 2011-2013
Oklahoma State University, USA	1982
Columbia University, New York, USA	1984, 1987, 1988, 2013
Pisa University, Italy	1986, 1990
Kyoto University, Japan	1987
Lahssa University, Tibet	1987
Max Planck Institute, Bonn, Germany	1988, 1998
Columbia University, New York, USA	1988
Academia Dei Lincei, Rome, Italy	1996
Scuola Normale Superiore, Pisa, Italy	1998, 2000
Hong Kong University	2000, 2013
Tata Institute, Bombay, India	2000
Scuola Normale Superiore, Pisa, Italy	1988, 2000
East China Normal University, Shanghai, China	2002, 2011
De-Giorgi Center, Pisa, Italy	2008, 2010
University of Quito, Ecuador	2010
Auckland University, New Zealand	2010, 2011
University of Alberta, Edmonton, Canada	2010, 2011
NYU-Polytechnic School of Engineering, NY	2013- 2016
Tandon School of Engineering, NYU, NY	2016-2017
East China Normal University, Shanghai, China	2017, 2018
NYUAD, Brain Center, Abu Dhabi , UAE	2017, 2018

4. Prizes, Awards, Grants

Date	*Prize, Award or Grant*
1973,1974,1975,1976,1977	Tel Aviv University
1976	Delek Foundation Award for Young Researchers
1977	Landau Prize, Research Award for M.Sc. Thesis
1981-1982	Rothschild Postdoctoral Prize
1985-1988	American-Israel Binational Science Foundation Grant
1987-1988	Batsheva de Rothschild Award
1987-1990	Fund for Basic Research, Israel Science Foundation
1989-1992	American-Israel Binational Science Foundation Grant
1993-1996	American-Israel Binational Science Foundation Grant
1994-2000	Internal Research Fund, Bar-Ilan University
1998-2001	INTAS (European Commission Grant)
1999-2002	Excellency Center of the Israel National Science Foundation
1999-2020	Minerva Center
2000-2004	IHP (European Commission) Grant “Algebraic Geometry”
2001	NATO Research Grant
2001	Emmy Noether Prize, Göttingen Germany
2001	Bar-Ilan Gonda Award (waived)
2001-2003	INTAS (European Commission) Grant
2002-2004	IHP (European Commission) Grant “Galois Covers”
2002-2005	Excellency Center of the Israel National Science Foundation
2004-2010	DIP (Deutsche Israelischen Projecten)

2005	European Union Conference Series (EMS)
2005-2007	European Union Coordinating Action (GIACS)
2005-2007	European Union NEST (MATHFSS)
2005-2006	Excellency Center of the Israel National Science Foundation
2006	One of the 50 most influential women in Israel (Globes Magazine)
2006	Woman of the City - Tel-Aviv City Municipality Award
2008-2011	European Union Coordinating Action (ASSYST)
2010-2012	Science in Society – Excellency, European Commission Grant
2014	Service Award of the Complex System Society
2017-2020	ISF via Sami Shamoon
2019-2023	ISF China-Israel

5. Supervising Post-Doctoral Fellows and Graduate Students

Name of Post-Doc	*Years Supervised*
1) Laure Barthel	1992-1994
2) Arthur Robb	1994-1996
3) Paul Freitag	1994-1995
4) Bernd Steinert	1995-1996
5) Ari Belinkiy	1996-1998
6) Alexander Schmitt	1998-1999
7) Sheng-Li Tan	1999-2000
8) Michael Fryers	2000
9) Muhammed Uludag	2001
10) David Goldberg	2001
11) Helge Maakestad	2001-2002
12) Pho Duc Tai	2001-2002
13) Jeremy Kaminski	2000-2004
14) Alexander Shapiro	2003-2005
15) Shamgar Gurevich	2004-2005
16) Israel Moreno	2004-2006
17) Yann Sepulcre	2004-2007
18) Maxim Layenson	2005-2008
19) Meirav Amram	2005-2009
20) Arkadius Kalka	2007-2011
21) Dimitry Kerner	2007-2008
22) Robert Shwartz	2007-2010
23) Rebecca Lehman	2008-2009
24) Oded Shor	2009-2011
25) Moshe Cohen	2010-2013
26) Fei Yi	2011-2012

Name of Ph.D. Student	*Years*	*Title of Thesis*
Pure and Applied Mathematics:		
1) Yair Halevi	1990-1997	Foundations of Expert Systems in Projective Geometry
2) Meirav Amram	1996-2002	On Galois Covers of Algebraic Surfaces
3) David Garber	1997-2002	On the Fundamental Group of Complement of Plane Curves
4) Tzachi Ben-Itzhak	1998-2003	Computation of HE Factorizations
5) Shmuel Kaplan	1998-2005	On Factorization of the Generator of B_n induced from Curves: Computational Method
6) Amiel Ferman	2003-2009	Algebraic Topological Invariants of Symplectic 4-Manifolds Using the Braid Monodromy Technique
7) Arthur Muftachov	2003-2010	Identification of Boundary Conditions Using Natural Frequencies - Algebraic and Geometric Methods
8) Dvora Cohen	2004-2010	Resolution of Singularities and Monodromies and Braid Groups
9) Meital Eliyahu	2006-2011	The Effect of Perturbation on the Fundamental Group of the Complement of Real Line Arrangements
10) Michael Friedman	2006-2011	On the Braid Monodromy Type Invariant: Properties and Applications
11) Evgeniy Beiderman	2004-2012	Remote Optical Estimation of Sound Sound Sources and Medical Parameters (co-advisor with Zeev Zalevsky)
12) Eran Liberman	2006-2013	Regeneration of Conic Sections and a (Double) Tangent
Math Education		
13) Miriam Dagan	2015-2020	The Gap between High School and University Mathematics Syllabus (revised)
14) Erez Nachmias	2018-	Self Learning in Math Education (revised)
15) Tania Badarna	2020-	
16) Michal Holshtein	2020-	
Neural Computation		
17) Tomer Shmiel	1999-2006	Computerized Mathematical Morphology for Analysis of Cognitive Processes and Brain Waves
18) Oren Shmiel	2003-2009	Computerized Geometrical Methods for Analysis of Subconscious Activities and Processes Recognition at Sleeping Phases
19) Lilach Avitan	2003-2010	The EEG as a Function of the Dynamics of its Generator Populations
20) Yaki Stern	2004-2010	Analysis of Epileptic EEG Signals with Different Kinds of Mother Wavelets
21) Uri Yerushalmi	2004-2010	Temporal Representations in Evolved Complex Virtual Organisms
22) Yakir Berchenko	2005-2011	Structure and Dynamics of Cluster Networks
23) Tomer Gazit	2006-2011	Assessment of Spatio-temporal Characteristics of Epilepsy Using Wavelet Analysis

24) Inbal Shapira-Lots	2009-2016	MEG Analysis of Auditory Object Perception and Methods Development
25) Amir Kleks	2009-	Analysis of Synchronization Patterns of MEG Signals
26) Zohar Noy	2012-	MEG Analysis
27) Ahmed Soleman	2015-	MEG Analysis for Numeration
28) Nili Wilkin	2018-	MEG Analysis for Numeration
29) Zeev Hananis	2020-	Development of Brain Tumors
30) Noy Hale	2021-	Concept of a Number in the Brain
31) Alon Katz	2021-	Concept of Color in the Brain

Name of MSc. Student	*Years*	*Title of Thesis*
1) Shira Zur	1990-1993	Braid Monodromy
2) Meirav Amram	1993-1995	Braid Group and Braid Monodromy
3) David Garber	1993-1997	On the Fundamental Group of the Complement of Real Line Arrangements
4) Hussam Aresha	1994-1995	Fundamental Groups of Complements of Algebraic Curves
5) Tzachi Ben-Itzhak	1996-1998	*Combined track*
6) Avi Zulti	1997-1998	About Grid for Numerical Control on CAD/CAM Programs
7) Shmuel Kaplan	1997-1998	*Combined track*
8) Amir Kleks	1997-1999	Computational Braid Monodromy
9) Alex Fish	1998-1999	Locally Nilpotent Derivations
10) Ido Shamir	1998-1999	Automatic Prover for Euclidean Geometry
11) Oren Shmiel	1999-2002	*Combined track*
12) Dvora Cohen	1999-2003	Special Examples of Braid Monodromy
13) Eran Liberman	2001-2004	*Combined track*
14) Shirly Baranes	2001-2005	Line Arrangements and the Braid Monodromy
15) Meital Eliyahu	2002-2005	Fundamental Groups of Complements of Similar Real Line Arrangements
16) Neta Rozen	2004-2005	Hurwitz Equivalence in the Symmetric Group
17) Dani Shitrit	2004-2006	Hurwitz Equivalence in the Braid Group
18) Shai Hamama	2005-2007	Comparison of Four Fundamental Groups of Four Line Arrangements with Nine and Ten Lines
19) Yoel Pinchas	2005-2008	Acoustic Detection of Insects in Plants
20) Dor Klar	2010-2012	Wide Baseline Dense Matching
21) Anna Zarkh	2011-2013	Visualization of Braid Monodromy
22) Ahmed Soleman	2012-2013	Studying Mathematics with Tables and Graphs
23) Erez Nachmias	2016-2017	Auto Cognition
24) Sivan Cohen	2017-	
25) Tamar Rizmovitch	2017-2020	Technology in Math Education
26) Yael Odeya	2018-2020	Identification of Brain Tumors
27) Hila Pinievski	2020-	Sleep Disorders

6. Editor, Referee and Reviewer

Editorships of volumes:

1. M. Teicher, Editor, *Hirzebruch 65*, Israel Mathematics Conference Proceedings, vol. 9, 1995.

2. M. Teicher, Editor, *The Heritage of Emmy Noether*, Israel Mathematics Conference Proceedings, vol.12, 1999.
3. C. Ciliberto, F. Hirzebruch, R. Miranda and M. Teicher, Editors, *Applications of Algebraic Geometry to Coding Theory, Physics, and Computation*, NATO Science Series II: Mathematics, Physics and Chemistry, vol. 36, Kluwer Publishing House, 2001.
4. Bolibruch, Hazewinkel, Kulikov and M. Teicher, Editors, *Acta Appl. Math*., vol. 75, Kluwer Academic Pub., 2003.
5. Recent Advances in Pure and Applied Mathematics, in Symmetry, in preparation

Membership in Editorial Boards:

Journal of the European Mathematical Society (JEMS), 2004-2012
Book series 'Algebras and Applications', Springer, 2005-
Transactions Amer. Math. Soc., 2006-2012
Memoirs, Amer. Math. Soc., 2006-2012
Bulletin of the Manifold Atlas, 2009-

Referee for Journals:

Inventiones Math., Topology, Journal of Algebra, Journal of Algebraic Geometry, Israel Journal of Mathematics, Israel Mathematics Conference Proceedings (IMCP), Annali di Matematica, Proceedings of Symposia in Pure Mathematics, Topology and its Applications, Discrete and Computational Geometry, Pisa Graduate Program, Annals of Mathematics, Compositio Mathematica, Geometry and Topology, Advances in Applied Mathematics

Reviewer: Mathematical Reviews, Zentralblatt für Mathematik

Referee for Funding Agencies: Binational Science Foundation (BSF); German Israeli Foundation (GIF); Israel Science Foundation (ISF); Deutsche Forschung Geseltshaft (DFG); Italian Science Foundation (CNR), National Science Foundation (NSF), National Institute of Health (NIH)

7. Academic Administrative Positions in Bar-Ilan University

Date	*Position and Institute*
1992-1998	Member of the Beirat, Emmy Noether Research Institute for Mathematics (Minerva Center)
1997-2000	Member, Research Committee of the Faculty of Exact Sciences
1997-2001	Chairman, Department of Mathematics and Computer Science
1998-2000	Member, Founding and Program Committees, School of Engineering
1998, 2018-	Member, Senate Committee for Honorary Degrees
1999-	Director, Emmy Noether Research Institute for Mathematics
2001-2005	Vice President for Research

8. Organizer of Conferences

Name of Conference	*Place and Date*
Cohomology on Groups	Bar-Ilan University, May 1985
Conference in Honor of 65th Birthday of F. Hirzebruch	Bar-Ilan University, May 1993
Moduli Problem and the Braid Group	Cetraro, Italy, September 1993
Emmy Noether Annual Lectures	Bar-Ilan University, 1993-present
Israel Mathematical Union Meeting, Geometry Session	Ben-Gurion University, May 1994

AMS-IMU Meeting, 2 Special Sessions	Jerusalem, May 1995
Algebraic Surfaces and Moduli Problems	Eilat, Israel, January 1996
The Heritage of Emmy Noether	Bar-Ilan University, December 1996
Fundamental Groups in Geometry	Oberwolfach, Germany, May 1998
The 4th Amitsur Symposium	Bar-Ilan University, June 1998
Topology of Algebraic Varieties	MPI, Bonn, July 1998
Chairman, Algebraic Geometry Session, International Congress of Mathematics (ICM)	Berlin, August 1998
International Conference on Geometry (with Haifa Univ.)	Israel, March 1999
The 5th Annual Meeting of the European Network in Algebraic Geometry (Europroj)	Israel, September 1999
Looking Back at the 20th Century	Bar-Ilan University, March 2000
International Conference on Brain Research	Bar-Ilan University, June 2000
Applications of Algebraic Geometry to Coding Theory, Physics & Computation (NATO Advanced Research Workshop)	Eilat, Israel, February 2001
Singularities	Moscow, June 2001
Computational Algebraic Geometry	Eilat, February 2002
Fundamental Groups in Geometry	Oberwolfach, Germany, September 2002
Coding Theory	Eilat, January 2003
School on Applications of Braid Groups	Eilat, February 2005
School on Applications of Braid Groups – Phase 2	Sea of Galilee, September 2005
Mathematical Neuroscience	Rome, October 2006
Hirz80	Ramat-Gan, May 2008
Popularization and Education of Math (ICM session)	Seoul , Korea, August 2014
Geometry and Physics: Mirror Symmetry, Hodge Theory, and Related Topics -- Ron Donagi's 60th Birthday	University of Miami, January 2015
International Women's Forum: Seek Solve Soar	Tel Aviv, May 2016
Griffiths 80	University of Miami, March 2018
Hirz90	Bar-Ilan University, June 2018

9. Boards and Committees

Date	*Type of Activity or Appointment*
1992-1996	Chairman, Italian-Israeli Binational Conferences Program Committee
1993-1994	Member of the Board, "Moishezon Memorial Foundation for the Advancement of Mathematics", Columbia University
1998	Organizer, Special Semester on "Topology of Algebraic Varieties", MPI, Bonn
1998-2008	Israel Delegate to the Council of the European Mathematical Society
1998-	Member, Advisory Committee, Midrasha Mathematica, Hebrew University, Jerusalem
1999	Member, Evaluation Com. of the Israel Ministry of Science in Applied Math.
1999-2002	Member, Council for Higher Education, Israel (MALAG), including member of: Permanent Subcommittee for the Technological Colleges Permanent Subcommittee to the Universities and Teachers Seminaries Special Committee for Higher Education in the Orthodox Community Special Committee for Higher Education in the Arab Sector Subcommittee for Broadening the Basis of Higher Education for the 30+ w.o Bagrut
1999-2002	Evaluator for the European Union Fellowship Program
2000-2005	Member, Evaluation Committee of the German Science Foundation (DFG)
2001	Member, Legal Forum of Heads of Universities of Israel
2001-2005	Member, Executive Committee of the European Mathematical Society (EMS) Member, Subcommittees of the EMS:

European Prize for Young Mathematicians
Review of Status and By-laws of EMS
EMS Summer Schools
Relationship with European Union
General Meeting Committee

2001-2005	Chair, Patent Committee, Bar-Ilan University
2001-2010	Member, Fachbeirat of the Max-Planck Institute for Mathematics, Bonn
2001-2005	Member, Acting Committee of BASHAR Association
2001-	Member, Council for Higher Education of Judea and Samaria Subcommittee for the B.Sc. Degree in Computer Science, College of Judea and Samaria
2002-2006	Member, Executive Committee of Israel Chapter of the International Women's Forum
2002-	Member of the Board, Wolf Foundation
2002	Member, Committee of Ministry of Education for establishing the Elite School "Mikveh"
2003-2008	Member, Highest Steering Committee for Science & Technology, Ministry of Education
2004-	Member, Committee of Officers in Science & Technology of Europe (COST)
2004	Chairman, Israel Prize in Mathematics
2004	Member, Advisory Board of EMANI (Electronic Mathematics Archives Network Initiative)
2004-2007	Chairman, Education Committee of the EMS
2004-2010	Chairman, Council for the Advancement of Women in Science & Technology, Israel
2005-2007	Chief Scientist, Ministry of Science and Technology / Ministry of Science, Culture and Sport
2005-2007	Chair of Science Committee, UNESCO, Israel
2005-	Vice President, European Complex System Society
2006	Delegate of Israel to the GA of IMU
2006	Director General (Acting) , Ministry of Science and Technology
2006-2007	Co-chair of the German Israeli Foundation Board
2007-2008	President, Israel Chapter of the International Women's Forum
2007-2009	Member, Board of the Leadership Foundation of the International Women's Forum
2007-2019	Member, Advisory Board of Center for Advanced Study, Göttingen University
2007-	Member, Acting Committee of BASHAR Association
2008	Member, Selection Committee for Industry Projects by Ministry of Trade and Industry
2008	Co-chair of the BSF Board
2008-	Member, Scientific Committee of RNSC (French Nat'l Network on Complex Systems)
2009	Chair, BSF Board
2009-	Chair, National Committee for International Relations in R&D
2009-	Member, Government High Nomination Committee
2010-2013	Member, IWF International Board
2010-2012	Vice President, International Commission for Mathematical Instruction (ICMI)
2010-2013	Member, National Council for Research and Development
2010-2013	Advisory Board of the Commercialization Unit of Auckland Univ.
2010-2014	Member, National Council for the Film Industry
2011	Panel for Innovation, New Zealand Government
2011-	Member. Board of MEDCPU, Ltd
2011	Vice Chair, BSF Board
2012-2013	Chair, BSF Board
2013-2018	Member, Advisory Group to the European Union Program on "Future Technologies"
2013-2017	Member, Advisory Board to the European Union on Gender Issues
2016	Member, Israel Prize in Mathematics, Selection Committee
2017-	Member, International Think Tank on Brain-Machine Interface
2017-2018	Vice President, International Women's Forum

2017-2019	Member, Advisory Board of AirSwap
2018	Delegate of Israel to the GA of IMU
2018-	Member, Advisory Board of the Brain Center in NYUAD, Abu Dhabi,
2019	Member, Advisory Board of Institute of Math Sciences in the Americas (IMSA), UMiami
2019-	Member, SEED Award Jury Member, China ,
2019-	Chair, Advisory Board, OMNIQ Technologies Ltd.
2020-	Member, Advisory Board, Hydroplan
2020	Chair, SNE Technologies
2021-2025	Member, MOLMOP (Israel National Council for Research and Development)
2021-2025	Chair, National Committee for Excellency in Science

10. Participation in Scientific Conferences and Invited Talks (selected list)

Conference / Invited Talk	*Place and Date*	*Title of Lecture*
Colloquium	Princeton University, **USA** 1982	Factorization of birational maps between algebraic varieties
Series of Lectures	University of Oklahoma, **USA** 1982	On factorization of birational maps
Conference to Inaugurate Abe Gelbart Chair	Bar-Ilan University, **Israel** 1983	Multiplicity one theorem for $GS_p(2n)$
Annual Conference of Israel Mathematical Union	Jerusalem, **Israel** 1983	Combinatorial methods in algebraic geometry
Colloquium	Hebrew University, **Israel** 1984	Multiplicity one theorem for O(n,k)
Geometry Seminar	Columbia University, **USA** 1984	Existence of simply connected algebraic surfaces of positive index
Conference on Cohomology, Groups & Algebraic Geometry	Bar-Ilan University, **Israel** 1985	Finite representation of algebraic geometry
Special Series of Lectures	Pisa University, **Italy** February 1986	On moduli space of surfaces of general type
Colloquium	University of Oklahoma, **USA** 1987	Braid groups and algebraic surfaces
Algebra Seminar	Colorado State University, **USA** 1987	Geometric outlook on braid groups
Algebra Seminar	Kyoto University, **Japan** 1987	Algebraic surfaces with finite fundamental group
Öber Seminar	MPI, Bonn, **Germany** 1988	Special surfaces of general type
Russian-American Meeting	Chicago, **USA** July 1989	Simply connected algebraic surfaces
Conference in Honour of Andreotti	Pisa, **Italy** 1990	Braid monodromy of almost real curves
Humboldt Seminar	Berlin, **Germany** June 1991	Fundamental groups of surfaces of general type
Schur Gedenkkoloquium	Berlin, **Germany** November 1991	Multiplicity one theorems for algebraic groups
Colloquium	Ulm University, **Germany** 1992	Surfaces of general type

Workshop on Algebraic Geometry, Connections with Topology and Number Theory	Landau Center, Jerusalem, **Israel** November 1992	Braid group techniques in algebraic geometry
Meeting on Analysis and Complex Varieties	Oberwolfach, **Germany** June 1993	On the Galois cover of Hirzebruch surfaces
Meeting on Algebraic Geometry	Oberwolfach, **Germany** August 1993	
Italian-Israeli Binational Conference	Cetraro, **Italy** September 1993	Moduli problems and algebraic surfaces
Conference on Affine Algebraic Geometry	Technion, Haifa, **Israel** December 1994	Braid group techniques in affine algebraic geometry
AMS Summer Research Inst. in Algebraic Geometry	Santa Cruz, **USA** July 1995	Braid groups and algebraic surfaces
Jerusalem Topology and Geometry Seminar	Hebrew University, **Israel** April 1996	Applications of braid group techniques to algebraic surfaces
Meeting on 4-dimensional Manifolds	Oberwolfach, **Germany** May 1996	New invariants for complex surfaces
Workshop on Algebraic Surfaces	Accademia Nazionale Dei Lincei, Rome, **Italy** May 1996	Fundamental groups of complements of branch curves
Meeting on Complex Geometry, Topological and Transcendental Methods	Oberwolfach, **Germany** August 1996	(invited, unable to attend)
Meeting on Complex Analysis	Oberwolfach, **Germany** August 1996	(invited, unable to attend)
Enumerative Geometry	Rome, **Italy** April 1997	(invited, unable to attend)
The 3rd Amitsur Symposium	Jerusalem, **Israel** June 1997	On the quotient of the braid group
Jerusalem Topology and Geometry Seminar	Hebrew University, **Israel** April 1997	Applications of braid group group techniques to algebraic surfaces
Meeting on Hodge Theory, Mirror Symmetry and Quantum Cohomology	Scuola Normale Superiore Pisa, **Italy** April 1998	Special surfaces of general type
Conference in Honor of Hirzebruch's 70th Birthday	Polish Academy of Science Warsaw, **Poland** May 1998	On Galois covers of Hirzebruch surfaces
International Conference in Topology	Tel-Aviv University, **Israel** June 1998	Surfaces with $C_1^2 > 2C_2$
Colloquium	Mainz University, **Germany** July 1998	New invariants for surfaces
Knots in Hellas	Delphi, **Greece** August 1998	Braid group techniques in algebraic geometry
Colloquium	Haifa University, **Israel** February 1999	Word problem in the braid group and classification of algebraic surfaces
Conference in Honor of Geyer's 60th Birthday	Tel Aviv University, **Israel** March 1999	Polycyclic fundamental groups as invariants of surfaces
Meeting on Singularities	Oberwolfach, **Germany** May 1999	Braid monodromy of singular branch curves
Annual Meeting of the Israel	University of Haifa, **Israel** May 1999	Diffeomorphism types

Mathematical Union		
Conference on Arrangements	Boston, **USA** June 1999	From arrangements to branch curves
Meeting on Low-Dimensional Algebraic Varieties	Oberwolfach, **Germany** August 1999	New symplectic invariants
Meeting on Recent Developments in the Theory of Algebraic Surfaces	Costiera Amalfitana, **Italy** September 1999	Braid monodromy invariants of surfaces
Conference on Complex Manifolds	**Hong Kong** January 2000	Diffeomorphism type and BMT type
Algebra Seminar	Tata Institute, Bombay, **India** February 2000	Word problem and BMT type
Geometry Seminar	University of Pisa, **Italy** April 2000	On quotients of braid groups
Meeting on Complex Analysis	Oberwolfach, **Germany** August 2000	
C.C. Conference	Beijing, **China** October 2000	(unable to attend)
Conference on Perspectives in Geometry	Leipzig, **Germany** November 2000	BMT invariants and diffeomorphism types
Annual Meeting of the Israel Mathematical Union	Hebrew University, **Israel** May 2001	BMT invariants and diffeomorphism types
Conference on Exterior Algebra Methods and Other New Directions in Algebraic Geometry, Commutative Algebra and Combinatorics	Erice, **Sicily** September 2001	Topological vs. combinatorial properties of line arrangements
Emmy Noether Professorship	Göttingen, **Germany** November 2001	Braid groups and applications
Cryptography Colloquium	New York, **USA** November 2001	Encryptography using braid groups
Satellite Conference on Algebraic Geometry, ICM02	Shanghai, **China** August 2002	
Meeting on Complex Analysis	Oberwolfach, **Germany** September 2002	
Fano Conference	Torino, **Italy** September 2002	On Galois covers of algebraic surfaces
Singularity Conference	Lille, **France**, June 2003	Singulariites and braid monodromy
Topology Colloquium	Canberra, **Australia** July 2003	Braid word problems
Meeting on Singularities	Oberwolfach, **Germany** September 2003	
Slodway Colloquium	Hamburg, **Germany** October 2003	Algebraic surfaces
Conference on Algebraic Methods in Cryptology	Dortmund, **Germany** March 2004	Braid groups and cryptography
60 Years of Oberwolfach	Oberwolfach, **Germany** July 2004	Presentation of the Prize Winner

Meeting on Complex Analysis	Oberwolfach, **Germany** August 2004	
Colloquium	Rome University, **Italy** November 2005	Degenerations and braid monodromy
Conference in Honor of Bogomolov	Miami University, **USA** December 2005	Fundamental groups - new examples and applications to cryptography
Colloquium	Seoul, **Korea** July 2006	Braid Monodromy Type
Conference in Neuromathematics	**Andorra** September 2006	Synchronization
Colloquium	Seoul, **Korea** October 2006	EEG and more
Conference in Honor of Benno Eckmann	Technion, **Israel** April 2007	Applications of braid monodromy and fundamental groups to the formation of surfaces
Brain Motion Conference	Tel-Aviv University, **Israel** July 2007	Synchronization
Colloquium	University of Buenos Aires, **Argentina**, May 2008	EEG and more
Emmy Noether Year	Technical University of Catalonia, **Catalonia** September 2008	Keynote Opening Lecture
Colloquium	Barcelona, **Catalonia** September 2008	Mathematics in neuroscience
Conference on Algebraic Surfaces	University of Pisa, **Italy** October 2008	Groups related to K3 surfaces
Conference on Topology of Algebraic Varieties in honor of Libgober's 60th birthday	Jaca, **Spain** June 2009	Singularities and braids
Colloquium	University of Miami, **USA** October 2009	Mathematical models in neuroscience
Colloquium	University of Christchurch, **New** Zealand, April 2010	Braid group techniques in geometry
Colloquium	University of Wellington, **New Zealand**, April 2010	How does the brain work?
Colloquium	University of Auckland, **New Zealand,** May 2010	Braids in arrangements
Colloquium	University of Auckland, **New** Zealand, May 2010	EEG and more
Colloquium	Scuola Normale Superiore, Pisa, **Italy** June 2010	Line arrangements and related groups
Colloquium	University of Rome III, **Italy** September 2010	Braid group techniques in algebraic surfaces
Colloquium	University of Alberta, **Canada** October 2010	How does the brain work?
Conference on Complexity	Venice, **Italy** February 2011	Mathematics in complex systems

Conference on Math Education	Beijing, **China** February 2011	Gifted students in Israel
Colloquium	Shanghai, **China** February 2011	Braid group techniques
Conference in Algebraic Geometry	Moscow, **Russia** September 2011	Topology vs combinatorics for line arrangements
Colloquium	Warsaw, **Poland** September 2011	Braid group techniques
Colloquium	Warsaw, **Poland** September 2011	How does the brain work?
Mathematical Conversations	Institute for Advanced Study, Princeton, **USA** January 2012	From algebraic geometry to neural computations and back – A personal perspective
Colloquium	Rutgers University, NJ, **USA** February 2012	Braid theory and surfaces
Members Seminar	Institute for Advanced Study, Princeton, **USA** February 2012	Topology vs. combinatorics of line arrangements
Algebraic Geometry Seminar	Princeton University, **USA** February 2012	3K surfaces
Computer Science/Discrete Mathematics Seminar	Institute for Advanced Study, Princeton, **USA** March 2012	Computational aspects in the braid group and applications to cryptography
Seminar in Biological Systems	Institute for Advanced Study, Princeton, **USA** March 2012	Synchronization
Colloquium	Polytechnic Inst., NYU, **USA** November 2012	Synchronization in brain activity
Conference "KULFEST" dedicated to the 60th anniversary of Vik. S. Kulikov	Steklov Inst., Moscow, **Russia** December 2012	The K3 case
Mathematical Conversations	Institute for Advanced Study, Princeton, **USA** March 2013	Why braids
Algebra Seminar	Rutgers University, **USA** March 2013	The 3 most difficult problems in the braid group
Arbeitstagung in Memory of Hirzebruch	MPI Bonn, **Germany** May 2013	Line arrangements in the study of surfaces
Complex Geometry Conference in Honor of Siu	Hong Kong Univ, **China** June 2013	Combinatory vs. topology of line arrangements
Colloquium talk	Miami, Florida, **USA** January 2014	Line arrangements and applications
Joint Mathematics Meetings Program (joint with M. Cohen)	Baltimore, Maryland, **USA** January 2014	New ten-line arrangements: reflections and a notion of distance.
Department of Finance and Risk Engineering Seminar	NYU, New York, **USA** November 2014	From neuroscience to complex systems to financial markets
Biomath Forum Lecture Series	University of Pretoria, **South Africa,** May 2015	How does the brain work?

Seminar	University of Johannesburg, **South Africa,** May 2015	How does the brain work?
World e-Conference on Complex Systems	Arizona State University, **USA** September 2015	From brain activity to financial markets via complex systems science
Seminar	NYU, New York, **USA** November 2015	Cyber crypto risks
Colloquium	Yeshiva University New York, **USA** November 2015	How does the brain work?
NetSci-X conference	Tel Aviv, **Israel** January 2017	Chair of Opening Session
Conference in honour of Moshe Abeles	**Ein Gedy,** February 2017	On Moshe Abeles
Conference on Singularitites	Hainan, **China,** December 2017	The brain as a complex system
Colloquium in Mathematics Education	Shanghai, **China,** December 2017	Gifted high school students education
Conference in Honor of David Mumford	**Harvard Univ.** Cambridge, **USA,** August 2018	On David Mumford
Colloquium	Univ of Montreal, **Canada** February 2019	How does the brain work
Colloquium	Yeshiva University, **USA** March 2019	Line arrangements
Conf. on Neuro Linguistics	NYUAD **Abu Dhabi**, 2019	Numeration
Conf. on Emmy Noether	**Berlin**, Frei Univ., June 2019	From Algebraic Geometry to Braids, Robotics and Neuroscience
Math and the Brain	University of **Miami** September 2019	How Does the Brain Work
Colloquium on Emmy Noether	**Gottinge**n Univ., Dec. 2019	
Public Lecture	Univ. of **Miami**, January 2020	Math and Beauty
Women in South East Europe	**Bulgarian** Academy of Science, December 2020	Math and the Brain
Erasmus Conference	Paphos, **Cyprus** June 2021	Math for the Future

11. Science policy and popularization of mathematics (selected list)

International Presentations:

"Session on Politics in Academia", IWF Conference, **Toronto, Canada**, October 2003.
"The Future of Nano-Technology", US-Israel S&T Commission (USISTC) Roundtable, **D.C,** Feb 2004.
Round Table Chair, "The Place of Mathematics in New and Emerging Science and Technology", ICM (International Congress of Mathematics), **Madrid, Spain**, August 2006.
"Science and Higher Education Policy", KOFST Congress, **Seoul, Korea**, July 2006.
Roundtable on "Dual Use of Biological Research", **Washington, D.C. USA**, February 2007.
"International R&D", Joint Taiwan - Israel Forum, **Tapei, Taiwan**, July 2007.
"How to Attract Girls to Science", World Women's Forum, **Seoul, Korea**, September 2007.
Plenary Panel in the International Women's Forum, **Chicago, USA**, October 2007.
Round Table, "Academic Freedom", World Justice Project, **Vienna, Austria,** November 2009.
"How to attract Women to Science", UCLA, **Los Angeles**, **USA**, February 2010.
"Science for Growth, Ministry of Finance, **Wellington, New Zealand**, April 2010.
"Vertical and Horizontal Segregation in Science", **Brussels**, **Belgium**, October 2010.

Round Table, “The Model for a Research Institute”, **Hainan, China**, December 2010.
“Innovation Schemes”, Ministry of Science and Innovation, **Wellington, New Zealand,** March 2011.
“Art in Science”, IWF Conference, **Rome, Italy,** May 2011.
“Math and Beauty - The Other Direction”, IAS, **Princeton**, **USA**, March 2012.
“Math and Beauty”, Unconference, **Wyoming, USA**, January 2015.
“Why is it Important to Study Math and How”, **Korea,** August 2015.
“Frontiers in Neuroscience”, Conference: Transforming Tomorrow Today, **Boston, USA,** October 2015.
“How to Protect from Cyber Risks”, Unconference, **Wyoming, USA**, July 2016.
“Math end Beauty”, **Shanghai, China** September 2018
“Women Empowerment”, **Sarasota, USA,** November 2018
“Math end Beauty”, **Montreal, Canada,** January 2019
"How to make Europe Innovative?”, EU Summit, **Bucharest, Romania,** June 2019
‘Why the Ecosystem in Israel so successful?”, **NYU,** School of Engineering, Oct 2019,

Presentations in Israel

Nano-Technologies, High-Tech Forum, Tel-Aviv, April 2002.
“Advancement of Women”, EMUNA Conference, Ramat-Gan, March 2005.
“Chief Scientist presentation”, Committee for S&T of the Knesset, Jerusalem, Oct. 2005 and June 2006.
“40 Years of Germany-Israel Scientific Collaborations”, Jerusalem, December 2005.
“The Chief Scientist Day”, Ministry of Industry, Tel-Aviv, December 2005.
“Defense R&D vs Civil R&D”, The Tel Aviv University Security and Peace Center, 2006.
“Space Day 2006”, The Fisher Research Center of the IAF, Herzliya, January 2006.
“Research in Colleges”, Council for Higher Education, March 2006.
“U.S.-Israel Women's Dialogue”, American Embassy, May 2006.
“The Innovation Food Chain”, The European Commission Embassy, Ramat-Gan, September 2006.
“Energy Renewal”, BIRD Conference, Tel-Aviv, November 2006.
“Academy for Industry”, Institute for Evolution, Haifa University, November 2006.
Moderator, The 2nd MOST Conference on Science Policy, January 2007.
“Women in Hi-Tech”, Ramat-Gan, March 2007.
“Young Women for Science”, Ministry of Education, Modiin, June 2007.
“Women in Industrial R&D”, Forum of Arab-Jewish Business Women, Haifa, October 2007.
“Lama – Ma”, Daily Television series (Channel 8), January – March 2008.
“Women and Growth”, Prime Minister's Office, June 2008.
“My Faith”, TV movie, January 2008.
“Women in Science and National Growth”, NAAMAT Conference, Tel-Aviv, September 2008.
“The Food Chain”, Herzlia Forum, February 2009.
Keynote, “Women, Technology and Industry”, Holon, June 2009.
“International R&D”, Herzlia Forum, February 2010.
“Why Innovation, Why Israel, Why Eilat?, EilatHub , Eilat, September 2020.
“Why Girls Should go for Math”, MOST, Israel, March 2021.

Newspapers Articles

M. Teicher, *Open Letter to President Summers*, EMS Newsletter, December 2005.
M. Teicher, *Q&A by Mina Teicher*, Ha'aretz, May 2005.
M. Teicher, *Be a Woman*, Ha'ir Magazine, March 2006.
M. Teicher, *Principles of Governmental R&D in Israel*, December 2006.
M. Teicher, *Swim Against the Stream*, Ha'aretz, January 2007.
M. Teicher, *Organizational Reform of the Center for Marine Agriculture Center*, July 2007.
M. Teicher, *The Chief Scientist Report*, September 2007.
M. Teicher, *Technology in Education*, MOFET Journal, April 2008

M. Teicher, *Brain and the Third Age*, "The Third Age" by Liora Eini, 2009.
M. Teicher, *Math and Beauty – The Other Direction*, IAS Letters, 2012.

LIST OF PUBLICATIONS

Scientific Articles in Peer Review Journals

1. M. Teicher, *Factorization of a birational morphism between* 4*-folds*, Math. Ann. 256 (1981), 391-399.

2. R. Miranda and M. Teicher, *Non-commutative algebra of dimension* 3 *over integral schemes*, Trans. Amer. Math. Soc. 292, 2 (1985), 705-712.

3. B. Moishezon and M. Teicher, *Existence of simply connected algebraic surfaces of positive and zero indices*, Proceedings of the National Academy of Sciences, United States of America 83 (1986), 6665-6666.

4. M. Teicher, *On toroidal embeddings of* 3*-folds*, Israel Journal of Mathematics 57, no. 1 (1987), 49-67.

5. M. Teicher, *Multiplicity one theorem for GSp(k,2n) and O(k,4) where k is a finite field*, Journal of Algebra 107, no. 2 (1987), 436-465.

6. B. Moishezon and M. Teicher, *Simply connected algebraic surfaces with positive index*, Inventiones Math. 89 (1987), 601-643.

7. B. Moishezon and M. Teicher, *Galois covers in theory of algebraic surfaces*, Amer. Math. Soc. Pub. PSPM 46 (1987), 47-65.

8. B. Moishezon and M. Teicher, *Braid group techniques in complex geometry* I, *Line arrangements in* $\mathbf{CP}^2$, Contemporary Math. 78 (1988), 425-556.

9. B. Moishezon and M. Teicher, *Braid group techniques in complex geometry* II, *From arrangements of lines and conics to cuspidal curves*, in: *Algebraic Geometry*, Lecture Notes in Math. 1479 (1991), 131-180.

10. B. Moishezon and M. Teicher, *Finite fundamental groups free over Z/cZ for Galois covers of* $\mathbf{CP}^2$, Math. Ann. 293 (1992), 749-766.

11. Y. Halevi and M. Teicher, *Foundations for expert systems in projective geometry*, Proceedings of ILA (Israel Society for Information Processing), November 1992 (in Hebrew), 203-224.

12. B. Moishezon and M. Teicher, *Braid group techniques in complex geometry* III, *Projective degeneration of* V^3, Contemporary Math. 162 (1994), 313-332.

13. B. Moishezon and M. Teicher, *Braid group techniques in complex geometry* IV, *Braid monodromy of* S_3, *the branch curve of* π_3: $V_3 \to \mathbf{CP}^2$ *and applications to* $\pi_1(\mathbf{CP}^2 - S_3)$, Contemporary Math. 162 (1994), 333-358.

14. B. Moishezon and M. Teicher, *Fundamental groups of complements of branch curves as solvable groups*, Israel Mathematical Conference Proceedings 9 (1995), 329-346.

15. B. Moishezon and M. Teicher, *Braid group techniques in complex geometry* V, *The fundamental group of a complement of a branch curve of a Veronese generic projection*, Communications in Analysis and Geometry 4 (1996) no. 11, 1-120.

16. B. Moishezon., A. Robb and M. Teicher, *On Galois covers of Hirzebruch surfaces*, Math. Ann. 305 (1996), 493-539.

17. I. Piatetski-Shapiro and M. Teicher, *Correspondence between representations of dual reductive pairs of O(n,k) and* Sp(2,*k*), Beiträge zur Algebra und Geometrie 38, no. 1 (1997), 145-148. Printed also (with permission) in: *Sitzungsberichte der Berliner Mathematischen Gesellschaft 1993-1996* (1998), 103-106.

18. A. Robb and M. Teicher, *Applications of braid group techniques to the decomposition of moduli spaces, new examples*, Topology and its Applications 78 (1997), 143-151.

19. J. Birman and M. Teicher, *The braid group, knots and algebraic geometry*, Topology and its Applications 78 (1997), 1-4.

20. M. Teicher, *On the quotient of the braid group by commutators of transversal half-twists and its group actions*, Topology and its Applications 78 (1997), 153-186.

21. M. Teicher, *Braid groups, algebraic surfaces and fundamental groups of complements of branch curves*, Amer. Math. Soc. Publications PSPM 62 (1997), no.1, 127-150.

22. M. Teicher, *Commutativity of the Schur algebra*, Beiträge zur Algebra und Geometrie 38, no. 1 (1997), 135-143. Printed also (with permission) in: *Sitzungsberichte der Berliner Mathematischen Gesellschaft 1993-1996* (1998), 107-116.

23. M. Teicher, *The variety of the set of representation of* D_∞ *and* $SL_2(z)$, Sitzungsberichte der Berliner Matematischen Gesellschaft 1997-2000 (1998), 177-179.

24. M. Teicher, *Chern classes of fibered products of surfaces*, Documenta Mathematica 3 (1998), 321-342.

25. M. Teicher, *Open questions on fundamental groups of complements of curves*, Proceedings of Kernforschungszentrum Jülich, 1998.

26. M. Teicher, *New invariants of surfaces*, Contemporary Math. 231 (1999), 271-281.

27. M. Teicher, *The fundamental group of a* $\mathbf{CP}^2$*-complement of a branch curve as an extension of a solvable group by a symmetric group*, Math. Ann. 314 (1999), 19-38.

28. M. Teicher, *Hirzebruch surfaces: degenerations, related braid monodromy, Galois covers*, Contemporary Math. 241 (1999), 305-325.

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32. C. Ciliberto, R. Miranda and M. Teicher, *Pillow degenerations of K3 surfaces*, in: *Applications of Algebraic Geometry to Coding Theory, Physics, and Computation*, NATO Science Series II: Mathematics, Physics and Chemistry, vol. 36, 2001, 53-63.

33. M. Fryers, J.Y. Kaminski and M. Teicher, *Some applications of algebraic curves to computational vision*, Applications of Algebraic Geometry to Coding Theory, Physics, and Computation, NATO Science Series II: Mathematics, Physics and Chemistry, vol. 36, 2001, 121-137.

34. M. Fryers, J.Y. Kaminski, A. Shashua and M. Teicher, *Multiple-view geometry of non-planar algebraic curves*, Proceedings of the International Conference of Computer Vision, 2001.

35. J.Y. Kaminski and M. Teicher, *General trajectory triangulation*, Proceedings of the European Conference of Computer Vision, 2002.

36. M. Teicher, *Braid Monodromy Type invariants of surfaces and* 4*-manifolds*, in: *Trends in Singularities*, Birkhauser, 2002, 215-222.

37. E. Adi-Japha, L. Frenkel, R. Shalev and M. Teicher, *Writing and dysgraphia in ADHD*, Neuroplasticity 9 (2002), no. 2, p. 65.

38. E. Adi-Japha, A. Kleks, M. Teicher and A. Zilberstein, *Solving the EEG Inverse problem using genetic algorithms*, Neuroplasticity 9 (2002), no. 2, p. 126.

39. S. Kaplan and M. Teicher, *Identifying half-twists using randomized algorithm methods*, Journal of Symbolic Computation 34 (2002), 91-103.

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41. D. Garber, S. Kaplan and M. Teicher, *A new algorithm for solving the word problem in braid groups*, Advances in Math. 167 (2002) no.1, 142-159.

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46. M. Amram and M. Teicher, *On the degeneration, regeneration and braid monodromy of* $T \times T$, Acta Appl. Math. 75 (2003), 195-270.

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50. T. Ben-Itzhak and M. Teicher, *Graph theoretic methods for determining non-Hurwitz equivalence in the braid group and symmetric group*, Israel J. Math. 135 (2003), 83-91.

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55. M. Fryers, J.Y. Kaminski and M. Teicher, *Recovering an algebraic curve using its projections from different planes*, Journal of the European Mathematical Society 7 (2005), 145-172.

56. L. Rowen, M. Teicher and U. Vishne, *Coxeter covers of the symmetric groups*, Journal of Group Theory 8 (2005), 139-169.

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[AABS-BT] M. Abeles, L. Avitan, T. Ball, A. Schulze-Bonhage and M. Teicher, *Revealing the statistics of assemblies underneath a recording EEG/ECoG electrod*e, submitted.

[ACTY] M. Amram, M. Cohen, M. Teicher and F. Ye, *Moduli spaces of ten-line arrangements with double and triple points*, submitted.

[AGSTTYX] M. Amram, C. Gong, Y.P. Sinichkin, Tan, M. Teicher, M. Yoshpe, W.-Y. Xu, *Degree 6 degenerations of algebraic surfaces*, in preparation.

[ALTTW] M. Amram, E. Liberman, S.-L. Tan, M. Teicher, X. Hang Wu**,** *Moduli spaces of arrangements of 12 projective lines with a sextic point*, in preparation.

[FNST] A. Ferman, T. Nowik, R. Shwartz and M. Teicher, *New permutation representations of the braid group*, submitted.

[GKLT] D. Garber, A. Kalka, E. Liberman and M. Teicher, *Double centralizers for parabolic subgroups of braid groups*, submitted.

[KST] S. Kaplan, A. Shapiro and M. Teicher, *Several applications of Bezout matrices*, submitted to Algorithmic Model Theory.

[LT] E. Liberman and M. Teicher, *The Hurwitz equivalence problem in the braid group is undecidable*, submitted.

[AAT] M. Abeles, L. Avitan and M. Teicher, *The EEG as a function of the population dynamics of its generators*, preprint.

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