

**MEIRAV AMRAM**

**RESEARCH INTERESTS:** Algebraic Geometry, Topology, Algebra, Geometry.

**EDUCATION:**

<b>Academic degree</b>	<b>Institution</b>	<b>Dates</b>
B.Sc. in Mathematics (major) Sociology-Anthropology (minor)	BIU	1989-1992
Mathematics Teaching Certificate	BIU	1990-1993
M.Sc. in Mathematics	BIU	1992-1995
Ph.D. in Mathematics	BIU	1995-2001
Postdoctoral position	University of Erlangen- Nürnberg,	2001-2002
Postdoctoral position	HUJI	2002-2005

**LANGUAGES:** German, English, Hebrew.

**MEMBERSHIP IN MATHEMATICAL UNIONS:** IMU and EMS since 1999.

**EMPLOYMENT:**

1992-2001 Teaching assistant, Adjunct lecturer (Ashkelon) and Exercise grader,  
BIU and Ashkelon College.

2001-2002 Postdoctoral position, University of Erlangen-Nürnberg.

2002-2005 Postdoctoral position, HUJI.

2004-2006 Adjunct lecturer, HIT.

2005-2010 Adjunct Lecturer, BIU: Departments of Mathematics,  
Logistics, Computer Sciences, Chemistry, Brain Sciences,  
Geography, Inter-Disciplinary Departments of Social Sciences.

2008-2010 Lecturer, SCE.

1.10.2010 and on - Senior lecturer in SCE.

1.10.2016-30.9.18 - Head of Mathematics Unit, SCE.

**EDITOR:** International Journal of Applied and Experimental Mathematics, since 2014.

**REVIEWER:** AMS, since 2004.

**TEACHING EXPERIENCE:** Calculus 1 & 2, Linear Algebra, Differential Equations.

**HONORS and AWARDS:**

1. 1997-2001: Rector's Award for Excellence as an Assistant.
2. 1998: Dean of Natural Sciences and Mathematics Prize for Excellence in Research.
3. 2001: Award for Excellence as a Lecturer and as an Assistant, Ashkelon College.
4. 2001-2002: Award of Eager and DAAD Fellowships, Post-Doctoral position, Mathematics Institute, Erlangen-Nürnberg University, Germany.
5. 2002-2003: Award of Golda Meir Fellowship, Post-Doctoral position, Faculty of Exact Sciences, Hebrew University, Jerusalem, Israel.
6. 2003-2004: Award of Lady Davis Fellowship Trust, Post-Doctoral position, Faculty of Exact Sciences, Hebrew University, Jerusalem, Israel.
7. 2004-2005: Award of Landau Center Fellowship, Post-Doctoral position, Faculty of Exact Sciences, Hebrew University, Jerusalem, Israel.
8. 2004-2005: Award of Emmy Noether and Minerva Fellowships, Post-doctoral position, Department of Mathematics, Bar-Ilan University, Israel.
9. 2006-2007: Award of Emmy Noether and Minerva Fellowships, Post-Doctoral position, Department of Mathematics, Bar-Ilan University, Israel.
10. 2006-2008: Award of Grant of 'The Israeli-Russian Federation Scientific Cooperation', HIT (Israel) - Moscow. Geometry and topology of singular algebraic varieties, 32000 dollars.
11. 2009-2014: Award of Emmy Noether and Minerva Fellowships and The Oswald Veblen Fund, research assistant position, Department of Mathematics, Bar-Ilan University, Israel.
12. 2013: College (SCE) President's Award of Appreciation for a lecturer.
13. 2014: College (SCE) President's Award of Appreciation for a researcher.
14. 2015: The head of teaching advancement center's Award (SCE) of Appreciation for a lecturer.
15. 1.10.2015-30.9.2016: Leading Researcher College Award (SCE).
16. 1.10.2016-30.9.2017: Leading Researcher College Award (SCE).
17. From 2012: College's Grant Criteria (SCE).
18. 1.10.17-30.9.20: ISF-NSFC (Israel-China) grant. Partner: Prof. Sheng-Li Tan.
19. 2016: The head of teaching advancement center's Award (SCE) of Appreciation for a lecturer.
20. 2017: College (SCE) President's Award of Appreciation for a lecturer.
21. 2018: The head of teaching advancement center's Award (SCE) of Appreciation for a lecturer.

22. 2021: College (SCE) Rector's Award of Appreciation for a lecturer.

**COMPETITIVE RESEARCH GRANTS:**

1. 2006-2008: Grant of 'The Israeli-Russian Federation Scientific Cooperation'.  
Partners: Garber D. (HIT), Kulikov V. (Steklov Institute, Moscow, Russia)
2. 2011-2017, 2020-2023: Competitive research grant (SCE).
3. 2017-2020: ISF Grant.  
Partner: Prof. Sheng-Li Tan, China, with NSFC Grant.

**ORGANIZING CONFERENCES, SESSIONS and SEMINARS:**

1. Organizer of the topology and geometry session - The annual meeting of the IMU, Ben-Gurion University, Israel, May 2007.
2. Organizer of a study seminar (algebraic geometry), Department of Mathematics, Bar-Ilan University, 2008-2009.
3. Organizer of the ENI Algebraic Geometry Seminar in Bar-Ilan University, 2009-2010.
4. Organizer of the College Colloquium in Ashdod SCE (with Dr. Elad Shufan), October 2017 and on (list of invited speakers is below).
5. Chairman of the morning session (1.6.23) of AGMA 2023 - International scientific online conference "Algebraic and geometric methods of analysis", Ukraine, May 29 - June 1, 2023, virtual on zoom.
6. Organizer of the algebraic geometry & number theory session - The annual meeting of the IMU, Weizmann Institute, Israel, 3.9.2023.

**POSTDOCTORAL FELLOWS ADVISOR:**

1. Algebraic geometry; Postdoc: Hao Sun; Mathematics department, Bar-Ilan University, 2014 (with Mina Teicher).
2. Algebraic geometry; Postdocs: Wan-Yuan Xu & Cheng Gong; Mathematics department, Bar-Ilan University, 2015 (with Mina Teicher).
3. Algebraic geometry; Postdocs: Xiao-Hang Wu (2017-2019) & Eran Lieberman (2017-2020); Mathematics department, Bar-Ilan University (with Mina Teicher).
4. Algebraic geometry; Postdoc: Praveen Kumar Roy (2021-2022); SCE.

**GRADUATE STUDENTS:**

1. Mo Jiali, Ph.D. student (Department of Mathematics, Soochow University, Suzhou, Jiangsu, China).

2. Dhazi Zhang, Ph.D. student (Supervision's partner: Prof. Rong Du, School of Mathematical Sciences, East China Normal University, No. 500, Dongchuan Road, Shanghai 200241, China).

**LECTURES and POSTERS at CONFERENCES, SEMINARS, COLLOQUIA:**

1. Research meeting, Eilat, Israel, "The research with Mina Teicher – results", 2001.
2. Mathematics colloquium, Weizmann Institute, Israel, "The degeneration and regeneration of the surface  $T \times T$ ", June 2001.
3. Seminar of AG, Erlangen-Nürnberg University, Germany, "The Galois covers of algebraic surfaces I, II, III, IV" (four talks), November-February 2002.
4. Seminar of AG, Erlangen-Nürnberg University, Germany, "Elliptic curve I, II, III (three talks)", consisting on the papers of Serre, June-May 2002.
5. Seminar of AG, Bayreuth University, Germany, "The Galois cover of the surface  $\mathbb{CP}^1 \times T$ ", July 2002.
6. The Fano Conference, The Eager network-Bayreuth node, Torino, Italy, "The results of the research in the year 2001-2002", October 2002.
7. Seminar of AGT, The Hebrew University, Jerusalem, Israel, "The braid monodromy techniques", November 2002.
8. Seminar of AGT, The Hebrew University, Jerusalem, Israel, "The degeneration of the surface  $\mathbb{CP}^1 \times T$  and the fundamental group of its branch curve's complement in  $\mathbb{CP}^2$ ", November 2002.
9. Seminar of AGT, The Hebrew University, Jerusalem, Israel, "The fundamental group of the Galois cover of the surface  $\mathbb{CP}^1 \times T$  with respect to a generic projection onto  $\mathbb{CP}^2$ ", December 2002.
10. Pre - colloquium, The Hebrew University, Jerusalem, Israel, "Surfaces - degenerations and invariants", May 2003.
11. Mathematics colloquium, Holon Academic Institute of Technology, Department of Sciences, "Fundamental groups related to BMT", January 2004.
12. The Hebrew University, Jerusalem, Israel, "Report on the LDFT postdoc's research", February 2004.
13. Seminar of topology and geometry, The Hebrew University, Jerusalem, Israel, "The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines", October 2006.
14. Mathematics colloquium, Bar-Ilan University, Ramat-Gan, Israel, "The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines", November 2006.

15. Special lectures in real and complex geometry, Tel-Aviv University, Israel, “The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines”, November 2006.
16. Oberseminar Algebra und Zahlentheorie, IWR, Heidelberg, Germany, “The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines”, December 2006.
17. Kolloquium des Instituts für Algebra und Geometrie, Frankfurt, Germany, “The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines”, December 2006.
18. Oberseminar Differentialgeometrie, Augsburg, Germany, “Braid monodromy and fundamental group”, February 2007.
19. Oberseminar Differentialgeometrie, Augsburg, Germany, “The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines”, February 2007.
20. Oberseminar Algebraische Geometrie, Mainz, Germany, “The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines”, February 2007.
21. Seminar - AG, Algebra, Geometrie und Computeralgebra; Kaiserslautern, Germany, “The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines”, February 2007.
22. Kolloquium der Mathematik, Mannheim, Germany, “The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines”, February 2007.
23. Conference of “Surfaces in Low Dimensional Manifolds”, Eilat, Israel, “The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines”, March 2007.
24. Mathematics colloquium, Ort Braude College, Carmiel, Israel, “The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines”, May 2007.
25. Seminar of basic notions, Bar-Ilan University, Israel, “The braid group”, June 2007.
26. Geometry seminar, Bar-Ilan University, Israel, “The fundamental group of a family of real conic-line arrangements composed of two tangent conics and arbitrary number of lines”, October 2007.
27. Mathematics seminar, Geneva University, Switzerland, “Galois covers of algebraic surfaces”, 23.11-30.11, 2008.
28. Algebra seminar, Bar-Ilan University, Israel, “Covers of Coxeter and Artin groups”, November 2009.

29. Geometry seminar, Bar-Ilan University, Israel, "The significance of the braid monodromy", November 2010.
30. Research Conference, Sami Shamoon College of Engineering, Israel, "The classification of algebraic surfaces and curves, using techniques from algebraic geometry and algebra", July 2011.
31. The 12th Annual MEITAL National Conference, The Levinsky College of Education, Tel-Aviv, on Wednesday 7.2.2014 - presenting poster.
32. SCE Seminar, Israel, "Topological methods in classification of surfaces", Wednesday 4.5.2016.
33. Tel-Aviv University, the Field Arithmetic Seminar, "Algebraic geometry - topological methods in the classification of surfaces", Wednesday 10.5.2017 (Kaplun Building 118).
34. Technion, Geometry & Topology seminar, Israel, "Topological methods in classification of surfaces", Wednesday 8.11.17.
35. An international conference on research in music and creativity: "Pushing the Boundaries of Musical Expression", The Music Department, Bar-Ilan University, Israel, 29.11.17-1.12.17, presenting poster.
36. Ariel University, Joint Research Meeting SCE-Ariel University, "Classification of algebraic surfaces and curves - Algebraic Geometry", Thursday 14.6.18.
37. Mathematical Institute of the University of Bayreuth, Germany, Seminar *Arithmetic Geometry*, "Topological methods in classification of algebraic surfaces and curves", Friday 18.10.19.
38. School of Math. Sciences, Tel Aviv University, Israel, Seminar in Real and Complex Geometry, "Classification of algebraic curves and surfaces: topological methods and invariants", Thursday 28.11.19.
39. ACA 2021, 26th International Conference on Applications of Computer Algebra, July 23-27, 2021, (Virtual, Online); Session on Algebraic Geometry from an algorithmic point of view, "Fundamental groups in classification of algebraic surfaces", Sunday 25.7.21.
40. Mathematical Institute of the University of Bayreuth, Germany, Mini-seminar on classification of algebraic surfaces, Tuesday 5.10.21.
41. St. Petersburg algebraic groups seminar, "Algebra and geometry meet on the way - fundamental groups", Monday 22.11.21, virtual on zoom.
42. Women in Algebra and Symbolic Computations II, 29.11.21-1.12.21, Bad Dürkheim, Germany, "Fundamental groups related to algebraic surfaces".
43. Oberseminar "Arithmetische und Algebraische Geometrie", LMU, TUM und UniBW (Germany), "Degeneration, regeneration, and the classification of algebraic surfaces", Tuesday 25.1.22, virtual on zoom.

44. AGMA 2022 - Algebraic and Geometric Methods of Analysis Conference, Odessa, Ukraine. Title: "On the algorithm of degenerations and fundamental groups as a tool to understand algebraic surfaces", 24.5.22-25.5.22, virtual on zoom.
45. Complex and symplectic curve configurations. Workshop on Complex and symplectic curve configurations. December 12–16, 2022, Nantes, France. Title: "Plane curves, fundamental groups, and deformations of surfaces" (on the 13.12.22).
46. AGMA 2023 - International scientific online conference "Algebraic and geometric methods of analysis", Ukraine, May 29 - June 1, 2023. Title: "Planar and non-planar degenerations with related fundamental groups" (on the 1.6.23), virtual on zoom.
47. The 14th Ukraine Algebra Conference, Sumy, Ukraine, July 3-7, 2023. Title: "Algebraic surfaces, fundamental groups and related algorithmic methods", virtual on zoom.
48. ACA 2023 - The 28th International Conference on Applications of Computer Algebra, Warsaw, Poland, July 17-21, 2023. Title: "On classification of algebraic curves and surfaces, using algorithmic methods".

**ATTENDANCE at CONFERENCES (not speaker), PARTICIPATION IN SCHOOLS and SHORT-TERM VISITS:**

1. Europroj Annual Conference: Algebraic Geometry in Europe, Ma'agan, Israel, September 4-9, 1999.
2. The Advanced School: Higher dimensional geometry, Europroj and the University of Trento, Levico-Terme, Italy, September 16-19, 1997.
3. School: Degenerations and linear systems, Bayreuth University, Germany, October 27-31, 1997.
4. Autumn school: Symplectic and complex analytic methods in 4-dimensional geometry, Bayreuth University, Germany, October 26-30, 1998.
5. Summer school: Free resolutions and linear systems, Thurnau-Bayreuth, Germany, July 18-24, 1999.
6. Conference: Perspectives of Mathematics, Goslar, Germany, June 18-24, 2000.
7. Workshop: Vector bundles on algebraic curves, Bad-Honnef, Germany, September 10 - 16, 2000.
8. ENI Junior Geometry Day: Braid groups, Maagan, Israel, July 18-19, 2000.
9. NATO Advanced Research Workshop: Application of algebraic geometry to coding theory, physics and computation, Eilat, Israel, February 25 - March 1, 2001.
10. Eager mid term review, Torino, Italy, 6th October, 2002.
11. Eager summer school: Error-correcting Codes (mathematics, algorithms and software), Eilat, January 13 - 16, 2003.

12. Conference in Honour of Hillel Furstenberg: Probability in Mathematics, Einstein Mathematics Institute, Jerusalem, June 17-19, 2003.
13. Minerva summer school for graduate and post-graduate students: Surfaces and their mappings, University of Heidelberg, Heidelberg, Germany, August 25-28, 2003.
14. Informal workshop in low-dimensional topology, Einstein Mathematics Institute, Jerusalem, 5th November, 2003.
15. Algebraic Geometry Day: BMT and fundamental groups related to BMT, Holon Academic Institute of Technology, January 13, 2004.
16. Workshop "Mathematics and Medicine", Holon Academic Institute of Technology, November 24, 2004.
17. The Annual Meeting of the IMU, Neve-Ilan, May, 2005.
18. The Annual Meeting of the IMU, Neve-Ilan, May, 2006.
19. Conference in Combinatorial and Geometric Group Theory with Applications, Dortmund, Germany, August 27-31, 2007.
20. A visit at the Steklov Institute, Moscow, Russia, August 16-24, 2008.
21. Workshop: Groups and Infinite Graphs (geometric group theory, group actions on graphs, infinite graph theory), Vienna, Austria, August 25-27, 2008.
22. Short term visit at Geneva University, Switzerland, Mathematics Department, 23.11-30.11, 2008.
23. Researchers Conference, SCE, Israel, October (2010-2014).
24. Jerusalem Conference on Research in Mathematics Education, Lev College, Jerusalem, Israel, 3-4.2.14.
25. Conference "To lecture or to teaching academic excellence challenge", Bar-Ilan University, Israel, 27.5.14.
26. The Workshop on Mathematical Education in Science and Technology, ORT Braude College, Israel, 2.2.16.
27. The 14th Annual MEITAL Conference 2016, "Higher Education New Teaching and Learning Technologies: Trends and Developments", Bar-Ilan University, Israel, 22.6.16.
28. The 15th Annual National MEITAL Conference 2017, "Teaching and Learning Technologies Accelerating Higher Education: Trends and Developments", Haifa University, Israel, 26.6.17.
29. Conference "Engineering the Society", SCE, Beer-Sheva, Israel, 18.7.17.
30. Conference of Equality - South, SCE, Beer-Sheva, Israel, 11.9.17.
31. Conference "Engineering the Society", SCE, Beer-Sheva, Israel, 28.5.18.

32. External Grants Conference, SCE, Beer-Sheva, Israel, 19.6.19.
33. The 17th Annual National MEITAL Conference 2019, "Teaching and learning combine technology with higher education: directions and trends", Rabin Center, Tel Aviv, Israel, 9.7.19.
34. Short term visit in Mathematical Institute of the University of Bayreuth, Germany, 13.10.19-20.10.19.
35. The 18th Annual National MEITAL Conference 2020, "Teaching and Learning Technologies Accelerating Higher Education: Trends and Developments", Wednesday, July 1, 2020, online format.
36. Online Teaching Conference: Zoom-In/Zoom-Out, SCE, 3.9.20.
37. The Annual Meeting of the IMU, 6.9.20-7.9.20, online format.
38. Conference on External Research Funds, SCE, 9.9.20-10.9.20, online format.
39. Conference of Equality - South, SCE, Beer-Sheva, Israel, 15.9.20, online format.
40. The annual meeting of the GDR Singularities and Applications, Paris, 23-27 November 2020, online format.
41. Workshop: Toric Fano Varieties and Beyond, Online Workshop, December 4th, 2020.
42. Workshop Algebraic Topology for amateurs, Online Workshop, March 24th, 2021.
43. Short term visit in Mathematical Institute of the University of Bayreuth, Germany, 3.10.21-12.10.21.
44. Online conference celebrating Steven Kleiman's 80 years, via Zoom, on March 23, 23.3.2022.
45. The sixth edition of the Brazilian meeting Bandoleros 2022, hybrid format, Middle East Technical University, Ankara, Turkey.
46. Horizon Europe Israel Launch Event, May 16, 2022, via zoom.
47. Conference on Algebraic Geometry "Sputnik-22", June 28 & 30, hybrid format, Moscow.
48. Digital teaching Conference, September 12, 2022, SCE, via zoom.
49. Conference of Equality - South, SCE, Beer-Sheva, Israel, 14.9.22.
50. Algebraic and topological interplay of algebraic varieties, A Conference in Honor of the 60th Birthday of Enrique Artal and the 55th Birthday of Alejandro Melle. Jaca, Spain, 12.6.23-17.6.23.
51. SCE Annual Research Conference, 10.7.23, Beer-Sheva, Israel.