CURRICULUM VITAE

URIYA A. FIRST

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Personal Information

Born in Israel, 1987. Citizen of Israel. Married.

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Research Interests

My research lies mostly on the interface between algebra and other fields such as geometry, homotopy theory and theoretical computer science. Loosely speaking, the idea is using tools from classical algebra to make progress in other fields, or vice versa. Some recent examples include using the geometry of certain varieties to study the number of generators of algebras, applying sheaves to construct locally testable error correcting codes, and resolving open cases of a conjecture Grothendieck and Serre by restating them in the language of quadratic and hermitian forms.

Topics in which I am interested.

Algebraic Geometry and Number Theory. Algebraic groups, group schemes, homogeneous spaces and torsors, quadratic and hermitian forms, the Witt group, Azumaya algebras (with and without involution), the Brauer group, sheaf cohomology, Bruhat–Tits theory.

Combinatorics and Computer Science. Expander graphs, high-dimensional expanders, error correcting codes, property testing.

Education

Ph.D. (2013). Mathematics, Bar-Ilan University.
Supervisor: Prof. Uzi Vishne.
Dissertation Title: *Bilinear Forms and Rings with Involution.*

M.Sc. (2007, summa cum laude). Mathematics, Bar-Ilan University.
Supervisor: Prof. Uzi Vishne.
Thesis Title: *Extensions of The Witt Ring.*

B.Sc. (2006, magna cum laude). Mathematics (primary) and Computer Science (secondary), Bar-Ilan University.

Employment

9/2025–8/2026. Visiting Associate Professor; Department of Mathematics, Massachusetts Institute of Technology (MIT), USA.

3/2022–present. Associate Professor; Department of Mathematics, University of Haifa, Israel.

10/2017–2/2022. Assistant Professor; Department of Mathematics, University of Haifa, Israel.

9/2014–8/2017. Postdoctoral Fellow; Mathematics Department, University of British Columbia, Canada. (Main Supervisor: Zinovy Reichstein.)

2/2014–4/2014. Visiting member of the Chair of Algebraic and Geometric Structures; École Polytechnique Fédérale de Lausanne (EPFL), Switzerland. (Host: Eva Bayer-Fluckiger.)

10/2012–8/2014. Lady Davis Postdoctoral fellow at the Einstein Institute of Mathematics, Hebrew University of Jerusalem. (Supervisor: Alex Lubotzky.)

Grants and Awards

- Israeli Science Foundation grant no. 721/24. Topic: Higher Essential Dimension. Funding: 880,000 NIS for the academic years 2024–2028 (220,000 NIS per year) .
- European Institutes for Advanced Study (EURIAS) Fellowship for the academic year 2017/2018. Declined in order to take a tenure-track position.
- Swiss National Science-Foundation (SNFS) Grant to visit EPFL during 2/2014–4/2014.

Teaching Experience

In what follows, courses are grouped by topic.
Courses indicated with '(Eng)' were given in English, and otherwise in Hebrew.
Courses indicated with '(G)' are advanced undergraduate courses, or graduate-level courses, or both.

Algebra.

- Introduction to Algebraic Geometry (taught 3 times during 2017–2024) (G)
- Introduction to Affine Group Schemes (Spring 2020) (G)
- Linear Algebra I (Fall 2019)
- Linear Algebra II (Fall 2022)
- Linear Algebra for Computer Science (Fall 2020)
- Linear Algebra for Physicists (Fall 2024)
- Ring Theory (taught 3 times during 2018–2023) (G)
- Seminar on Quadratic Forms (Spring 2022, Fall 2018) (G)

- Seminar on étale cohomology (Spring 2017; with J. Gordon) (Eng) (G)

Analysis.

- Differential Calculus for Economics (Fall 2016, Fall 2014) (Eng).
- Integral Calculus for Biology (Spring 2016) (Eng)
- Topology (taught 6 times during 2018–2024)
- Vector Calculus (Summer 2015) (Eng)

Theoretical Computer Science.

- Introduction to Error Correcting Codes (Spring 2025) (G)

Combinatorics.

- Seminar on Ramanujan Complexes (Spring 2013) (Eng) (G)

Special Courses for Excelling Students.

- Advanced Topics in Mathematics (Spring 2024, Spring 2023) (G)
- Excelling Student Seminar (Spring 2020)
- High School Mathematics (Fall 2022; given to excelling high school students)
- Solving Problems in Mathematics (Fall 2023)
- The Math Club (Fall 2019, Fall 2018)

Math Courses for Social Sciences and Liberal Arts.

- Mathematics for Medical Imaging (taught 3 times during 2023–2024)

Departmental Seminars. See the Services to the Scientific Community section.

Administrative Activities

At University of Haifa.

10/2022–present. Initiating and organizing undergraduate research projects.

10/2022–present. Head of the Center for Mathematics and Scientific Computation (CMSC) at University of Haifa.

10/2019–9/2025. Head of the Mathematics Department's Excelling Students Program.

10/2020–2/2023. Head of the Mathematics Department's Teaching Assistant Committee.

Services to the Scientific Community

Conferences Organized.

- Algebra and Number Theory Session at the 2025 Annual Meeting of The Israeli Mathematical Union, Bar-Ilan University, July 6, 2025.
- Algebra Session at The 2022 Annual Meeting of The Israeli Mathematical Union, Ben-Gurion University, September 6, 2022.
- Brauer Group Meeting in Israel (14th Brauer Group Conference), the Academic College of Tel Aviv-Yaffo, June 27–July 1, 2022. With Adam Chapman and Eliyahu Matzri.
- Algebra Session at The Annual Meeting of the Israeli Mathematical Union, September 6, 2020. With Shifra Reif.
- 7th Israeli Algebra and Number Theory Day, University of Haifa, Israel, June 6, 2018. With Sefi Ladkani.

Seminars Organized. I organized the Algebra Seminar at University of Haifa from 10/2017 to 9/2020.

Refereeing. I refereed papers and wrote expert opinions for various academic journals including: *Journal of Algebra*, *Journal of Algebra and its Applications*, *Journal of Algebraic Geometry*, *Archiv der Mathematik*, *Compositio Mathematica*, *Israel Journal of Mathematics*, *Bulletin of the London Mathematical Society*, *Mathematische Zeitschrift*, *Proceedings of the American Mathematical Society*, *Transactions of the American Mathematical Society*, *Transformation Groups*.

I also refereed papers for the *Innovations in Theoretical Computer Science (ITCS)* conference.

Reviewing. I write paper reviews for *AMS Mathematical Reviews* and *zbMATH Open* (formerly *Zentralblatt MATH Reviews*).

Students

Postdoctoral Fellows.

- Yidi Wang (9/2026–present).
- Vedat Levi Alev (10/2024–9/2026). Joint publications: (32).

Master Students.

- Omer Cantor.
  Thesis: In progress;
  Institution: University of Haifa.
- Mariam Ayoub.
  Thesis title: "Isomorphism of Orders with Involution";
  Approved: March 2025;
  Institution: University of Haifa.
- Hnady Bokae.
  Thesis title: "Azumaya Algebra Over Semilocal Rings";
  Approved: September 2023;
  Institution: University of Haifa.
- Foaad Mossa.
  Thesis title: "Constructive Solutions to Some Cases of The Grothendiec–Serre Conjecture in Dimension 1";
  Approved: August 2021;
  Institution: University of Haifa.
- Thomas Rüd.
  Thesis title: "Admissibility of representations of totally disconnected locally compact groups";
  Approved: Spring 2016;
  Institution: EPFL, Switzerland (supervision done while in UBC);
  Related publication: (13).

Undergraduate Research Projects.

- Liam May and Nikola Spirovski
  Undergraduate research opportunity [UROP] at MIT.
  Project title: "Number of Generators";
  Duration: February 2026 – May 2026;
  Related publication: In preparation.
- Stav Lazarovichi.
  Project title: "Locally Testable Error Correcting Codes";
  Approved: July 2025;
  Related publication: (31).
- Yonatan Blumenthal.

Project title: "Maximal-Size Irredundant Generating Sets for The Algebra of 3×3 Matrices";
Approved: December 2024;
Related publication: (25).

- Omer Cantor.
  Project title: "Maximal Subalgebras of Algebras with Involution";
  Approved: March 2023;
  Related publication: (23).

Publications

Preprints (available on `arxiv.org`).

(32) *Hypergraph Samplers: Typical and Worst Case Behavior*, with V.L. Alev (56 pages).
(31) *Good Locally Testable Codes with Small Alphabet and Small Query Size*, with S. Lazarovici (23 pages). (Accepted to **RANDOM 2026**.)
(30) *Cosystolic Expansion of Sheaves on Posets with Applications to Good 2-Query Locally Testable Codes and Lifted Codes*, with T. Kaufman (97 pages). (Appeared in **STOC 2024**, cf. (1cs).)
(29) *The Cheeger Inequality and Coboundary Expansion: Beyond Constant Coefficients*, with T. Kaufman (30 pages).
(28) *Azumaya Algebras With Orthogonal Involution Admitting an Improper Isometry* (5 pages).
(27) *The Ramanujan Property for Simplicial Complexes* (90 pages).

Research papers.

(26) *Algebraic Groups with Torsors That Are Versal for All Affine Varieties*, with M. Florence and Z. Rosengarten (25 pages). To appear in Algebra and Number Theory.
(25) *Irredundant Generating Sets for Matrix Algebras*, with Y. Blumenthal, Linear Algebra and its Applications, 727:308–335, 2025.
(24) *Counterexamples in Involutions of Azumaya Algebras*, with B. Williams, Journal of Algebra 684:256–279, 2025.
(23) *Spaces of Generators for Azumaya Algebras with Unitary Involution*, with O. Cantor, Journal of Pure and Applied Algebra, 229(4):107919, 2025 (19 pages).
(22) *Highly Versal Torsors*, Amitsur Centennial Symposium, Contemporary Mathematics, Israel Mathematical Conference Proceedings, 800:129–174, 2024.
(21) *An 8–Periodic Exact Sequence of Witt Groups of Azumaya Algebras with Involution*, Manuscripta Mathematica, 170:313–407, 2023.
(20) *On the Grothendieck–Serre Conjecture for Classical Groups* (with E. Bayer-Fluckiger and R. Parimala), Journal of The London Mathematical Society, 106(4):2884–2926, 2022.
(19) *On the number of generators of an algebra over a commutative ring* (with Z. Reichstein and B. Williams), Transactions of The American Mathematical Society, 375(10):7277–7321, 2022.
(18) *On The Gersten–Witt Complex of an Azumaya Algebra with Involution*, Journal of Algebra, 605:146–178, 2022.
(17) *On the non-neutral component of outer forms of the orthogonal group*, Journal of Pure and Applied Algebra, 225(1):106477, 2021 (6 pages).
(16) *Pfister's Local–Global Principle and Systems of Quadratic Forms*, Bulletin of the London Mathematical Society, 52(6):1105–1121, 2020.

(15) *Involutions of Azumaya Algebras* (with B. Williams), Documenta Mathematica, 25:527–633, 2020.
(14) *Orders that are Étale-Locally Isomorphic* (with E. Bayer-Fluckiger and M. Huruguen), Algebra i Analiz (St. Petersburg Math. J.), 31(4):1–15, 2019.
(13) *On Uniform Admissibility of Unitary and Smooth Representations* (with T. Rüd), Archiv der Mathematik, 112(2):169–179, 2019.
(12) *Azumaya Algebras Without Involution* (with A. Auel and B. Williams), Journal of the European Mathematical Society (JEMS), 21(3):897–921, 2019.
(11) *Rationally Isomorphic Hermitian Forms and Torsors of Some Non-Reductive Groups* (with E. Bayer-Fluckiger), Advances in Mathematics, 312:150–184, 2017.
(10) *Patching and Weak Approximation in Isometry Groups* (with E. Bayer-Fluckiger), Transactions of the American Mathematical Society (TAMS), 369(11):7999–8035, 2017.
(9) *On The Number of Generators of an Algebra* (with Z. Reichstein), Comptes Rendus Mathematique, 355(1):5–9, 2017.
(8) *Categorical Realizations of Quivers*, Communications in Algebra, 44(6):2567–2582, 2016.
(7) *Witt's Extension Theorem for Quadratic Spaces over Semiperfect Rings*, Journal of Pure and Applied Algebra, 219(12):5673–5696, 2015.
(6) *Rings That Are Morita Equivalent to Their Opposites*, Journal of Algebra, 430:26–61, 2015.
(5) *General Bilinear Forms*, Israel J. of Mathematics, 205(1):145–183, 2015.
(4) *An Elementary Proof That Rationally Isometric Quadratic Forms Are Isometric*, Archiv der Mathematik, 103(2):117–123, 2014.
(3) *Hermitian Categories, Extension of Scalars and Systems of Hermitian Forms* (with E. Bayer-Fluckiger and D. Moldovan), Pacific J. of Mathematics, 270(1):1–26, 2014.
(2) *Stiefel-Whitney Invariant for Non-Symmetric Bilinear Forms* (with U. Vishne), Linear Algebra and its Applications, 439:1905–1917, 2013.
(1) *Semi-Invriant Subrings*, Journal of Algebra, 378:103–132, 2013.

Computer Science Conference Proceedings.

(1cs) *Cosystolic Expansion of Sheaves on Posets with Applications to Good 2-Query Locally Testable Codes and Lifted Codes* (with T. Kaufman), **STOC 2024**: Proceedings of the 56th Annual ACM Symposium on Theory of Computing (STOC), 1446–1457, June 2024. Overview of (30).

Math Conference Proceedings.

(1p) *"Does Isomorphism over a field implies isomorphism over its valuation rings?"* in: Becher Karim Johannes, Hoffmann Detlev, Quéguiner-Mathieu Anne: Quadratic Forms and Related Structures over Fields, Oberwolfach Reports [EMS Publishing House], 15:1235-1291, 2018.

Other publications (available on `arxiv.org`).

(c) *On Good 2-Query Locally Testable Codes from Sheaves on High Dimensional Expanders*, with T. Kaufman (103 pages). Sections 1–8 are subsumed by (30). Other sections may be subsumed by future publications.
(b) *Highlights from "The Ramanujan Property for Simplicial Complexes"* (23 pages). A summary of (27).
(a) *On the number of generators of a separable algebra over a finite field*, (with Z. Reichstein and S. Salazar; 12 pages).

Lectures

Conferences and Workshops.

(27) *"Versality of Torsors: Beyond Fields"*, 2025 Summer Research Institute in Algebraic Geometry (contributed talks session), Colorado State University, USA, July 2025.
(26) *"The number of generators of Azumaya algebras with involution"*, Squares in Dortmund, University of Dortmund, Germany, April 2025.
(25) *"Involutions of the Third Kind: Counterexamples"*, Israeli Mathematical Union 2024 Annual Meeting (Non-Commutative Algebra session), Weizmann Institute, Israel, September 2024.
(24) *Cosystolic Expansion of Sheaves on Posets with Applications to Locally Testable Codes*, STOC 2024: 56th Annual ACM Symposium on Theory of Computing, Canada, June 2024.
(23) *"Torsors that specialize to every torsor over a d-dimensional scheme"*, Motives and Invariants: Theory and Applications to Algebraic Groups and their Torsors, Banff International Research Station, Canada, October 2023 (invited speaker).
(22) *"An exact octagon of Witt groups of Azumaya algebras and applications"*, Mini-Workshop on Quadratic Forms and Related Topics, Academic College of Tel-Aviv-Yaffo, Israel, July 2023 (invited speaker).
(21) *"Sheaves on simplicial complexes and 2-query locally testable codes"*, Arithmetic Aspects of Algebraic Groups, Banff International Research Station, Canada, June 2022 (invited speaker).
(20) *"Azumaya Algebras Admitting Just One Type of Involution"*, Amitsur Centennial Symposium, Hebrew University of Jerusalem, Israel, November 2021 (invited speaker).
(19) *"Generating Algebras via Versality"*, Algebraic Groups and Algebraic Geometry (in honor of Zinovy Reichstein's 60th Birthday), June 2021 (invited speaker). Held online.
(18) *"The Grothendieck–Serre conjecture for classical groups in low dimensions"*, Emerging Research in Algebraic Groups, Motives, and K-Theory, Euler International Mathematical Institute, Russia, September 2019 (invited speaker).
(17) *"Reperesentations and Transfer Maps for The Brauer Group"*, Conference on Lie groups, Lie algebras and applications, ORT Braude College and University of Haifa, Israel, November 2018.
(16) *"Involutions and Ramification"*, 13th Brauer Group Conference, Pingree Park, Colorado USA, June 2018.
(15) *"Does Isomorphism over a Field Implies Isomorphism over its Valuation Rings?"*, Israeli Mathematical Union 2018 Annual Meeting (algebra session), Technion, Israel, May 2018.
(14) *"Does Isomorphism over a Field Implies Isomorphism over its Valuation Rings?"*, Workshop on Quadratic Forms and Related Structures over Fields, Oberwolfach, Germany, April 2018 (invited speaker).
(13) *"Cohomology of Sheaves on Graphs and Simplicial Complexes"* (4 lectures), special lecture day given at the IIAS, Hebrew University of Jerusalem, Israel, March 2018.
(12) *"Brauer Classes Supporting an Involution"*, Quadratic Forms in Chile, Talca, Chile, January 2018.
(11) *"Ramanujan Complexes"* (4 lecture series; with Uzi Vishne), School on Geometric, Topological and Computational Aspects of High-Dimensional Combinatorics, Sde-Boker, Israel, October 2017 (invited speaker).

(10) *"The Ramanujan Property in Higher Dimensions"*, Conference of High Dimensional Expanders, Les Diablerets, Switzerland, June 2016.
(9) *"Rationally Isomorphic Hermitian Forms"*, Mini-course on Commutative Algebraic Groups, Hermitian K-Theory and Quadratic Forms, Lens, France, May 2016.
(8) *"Rationally Isomorphic Hermitian Spaces and Torsors of Some Non-Reductive Groups"*, 12th Brauer Group Conference, Pingree Park, Colorado USA, June 2015.
(7) *"From Systems of Quadratic Forms to Single Hermitian Forms"*, Second Joint International Meeting of the Israel Mathematical Union and the American Mathematical Society, Tel-Aviv, June 2014.
(6) *"Representations and Spectrum in Simplicial Complexes"*, The Twenty-first Amitsur Memorial Symposium, Ramat-Gan, Israel, June 2014 (invited speaker).
(5) *"Semi-Invariant Subrings, Centralizers and Krull-Schmidt Decompositions"*, Conference on Classical Aspects of Ring Theory and Module Theory, Bedlewo, Poland, 2013.
(4) *"Non-Reflexive Hermitian Categories and Applications to Systems of Bilinear Forms"*, Mini-course on quadratic forms, $\mathbb{A}^1$-homotopy theory and exceptional groups, Lens, France, 2013.
(3) *"Non-Classical Bilinear Forms: Two Applications"*, Conference on Galois groups and Brauer groups, Technion, Israel, 2013.
(2) *"The correspondence between bilinear forms and anti-endomorphisms, over aribrary rings"*, 10th Brauer Group Conference, Pingree Park, Colorado, 2012.
(1) *"Stiefel-Whitney Invariant for non-Symmetric Bilinear Forms"*, Brauer Group Mathematical Retreat, Ketorah, Israel, 2010.

Colloquium and Seminar Talks from the Last 5 Years (Grouped by Title).

(ix) *"Higher Essential Dimension: First Steps"*
- Algebraic Geometry Seminar, Dartmouth College, May 2026.
- Number Theory Seminar, Massachusetts Institute of Technology (MIT), October 2025.

(viii) *"Number of Generators: An Algebraic Geometry Point of View"*, Algebraic Geometry Seminar, Harvard University, USA, March 2026.
(vii) *"Low-Query Locally Testable Error Correcting Codes"*
- Algorithms and Complexity Seminar Seminar, Massachusetts Institute of Technology (MIT), November 2025.
- Colloquium, Hebrew University of Jerusalem, July 2025.

(vi) *"Generation of algebras and versality of torsors"*
- Colloquium, Technion, Israel, July 2024.
- Algebra Seminar, Tel-Aviv University, Israel, January 2024.
- Algebra Seminar, Technion University, April 2022.
- Bar-Ilan / Hebrew University Algebra Seminar, March 2021. Given online.
- Séminaire d'Arithmétique et de Géométrie Algébrique, Université Paris-Saclay, January 2021. Given online.
- Number Theory Seminar, Massachusetts Institute of Technology (MIT), April 2020. Given online.

(v) *"Torsors That Specialize to All Torsors Over d-Dimensional Schemes"*, University of Haifa–Technion Joint Algebra Seminar, November 2023. Talk given at University of Haifa.
(iv) *"A sheaf-theoretic approach to constructing locally testable codes"*

- Computer Science Theory Seminar, Technion, May 2023.
- Special Seminar Talk, Weizmann Institute, May 2023.

(iii) *"Highly Versal Torsors"*, Algebra Seminar, Bar-Ilan University, May 2023.

(ii) *"Pfister's Local-Global Principle for Pairs of Quadratic Forms"*, Algebra Seminar, University of Haifa, April 2021. Given online.

(i) *"The Grothendieck–Serre conjecture for classical groups in low dimensions"*

- Number Theory Seminar, Tel-Aviv University, Israel, March 2021. Given online.
- Quadratic Forms, Linear Algebraic Groups and Beyond (International Online Seminar), January 2021. Given online.
- Algebraic Geometry and Number Theory Seminar, Ben Gurion University, Israel, June 2020. Given online.

General Audience Lectures.

(a) *"What is Algebraic Geometry?"*

- Young Israel of Brookline, Brookline MA, USA, July 2026.
- MIT Kalaniyot Jewish Community Lunch, Massachusetts Institute of Technology (MIT), July 2026.

Academic Institutions where I Gave Colloquium and Seminar Talks.

In Israel. Bar-Ilan University (more than 5 talks), Ben Gurion University (3 talks), University of Haifa (more than 5 talks), Hebrew University (more than 5 talks), Technion (5 talks), Tel-Aviv University (3 talks), Weizmann Institute (1 talk).

In Europe. Université Paris-Saclay (online), École Polytechnique Fédérale de Lausanne (5 talks), Université catholique de Louvain.

In North America. University of Alberta, University of British Columbia (4 talks), University of Colorado in Boulder, Colorado State University, Dartmouth College, Emory University, Harvard University, Indiana University, Massachusetts Institute of Technology (MIT; 3 talks), University of Michigan, Michigan State University, University of Washington, Yale University.

Online International Seminars. Quadratic Forms Linear Algebraic Groups and Beyond (QFLAG).

Conferences Attended

- *The 25th Midrasha Mathematicae on Groups, Expanders and Codes: Celebrating the 70's birthday of Alex Lubotzky*, Hebrew University of Jerusalem, June 2026.
- *2025 Summer Research Institute in Algebraic Geometry*, Colorado State University, USA, July 2025.
- *Squares in Dortmund — A conference on quadratic forms and related topics on the occasion of Detlev Hoffmann's 64th birthday*, University of Dortmund, Germany, April 2025.
- *Annual Meeting of The Israeli Mathematical Union*, Weizmann Institute, September 2024.
- *STOC 2024: 56th Annual ACM Symposium on Theory of Computing*, Canada, June 2024.
- *Motives and Invariants: Theory and Applications to Algebraic Groups and their Torsors*, Banff International Research Station, Canada, October 2023.
- *Annual Meeting of The Israeli Mathematical Union*, Weizmann Institute, September 2023.

- *Specializations in Number Theory and Algebra*, Technion University, June 2023.
- *Annual Meeting of The Israeli Mathematical Union*, Ben Gurion University, September 2022.
- *Brauer Group Meeting in Israel (14th Brauer Group Conference)*, The Academic College of Tel Aviv-Yaffo, June 2022.
- *Arithmetic Aspects of Algebraic Groups*, Banff International Research Station, Canada, June 2022.
- *Amitsur Centennial Symposium*, Hebrew University of Jerusalem, Israel, November 2021.
- *2021 MPS Conference on High-Dimensional Expanders*, October 2021. Attended online.
- *Annual Meeting of The Israeli Mathematical Union*, Ben Gurion University, July 2021.
- *Algebraic Groups and Algebraic Geometry (in honor of Zinovy Reichstein's 60th Birthday)*, June 2021. Held online.
- *Annual Meeting of The Israeli Mathematical Union*, September 2020. Held online.
- *Arithmetic Aspects of Algebraic Groups*, Banff International Research Station, Canada, September 2020. Held online.
- *Emerging Research in Algebraic Groups, Motives, and K-Theory*, Euler International Mathematical Institute, Russia, September 2019.
- *Petersburg Motives (on the occasion of Ivan Panin's 60th birthday)*, Euler International Mathematical Institute, Russia, September 2019.
- *9th Israeli Algebra and Number Theory Day*, Ben-Gurion University, Israel, August 2019.
- *Workshop on Super Strong Approximation in Groups*, Hebrew University of Jerusalem, Israel, February 2019.
- *Lie groups, Lie algebras and applications*, ORT Braude College / University of Haifa, Israel, November 2018.
- *13th Brauer Group Conference*, Pingree Park, Colorado, June 2018.
- *Israeli Mathematical Union 2018 Annual Meeting*, Technion, Israel, May 2018.
- *Workshop on Quadratic Forms and Related Structures over Fields*, Oberwolfach, Germany, April 2018.
- *High Dimensional Combinatorics*, Hebrew University of Jerusalem, Israel, April 2018.
- *Quadratic Forms in Chile*, University of Talca, Chile, January 2018.
- *School on Geometric, Topological and Computational Aspects of High-Dimensional Combinatorics*, Sde-Boker, Israel, October 2017.
- *The 24th Amitsur Memorial Symposium*, Bar-Ilan University, Israel, June 2017.
- *Advances in Noncommutative Algebra and Representation Theory*, on the occasion of Louis Rowen's retirement, Bar-Ilan University, Israel, June 2017.
- *Workshop on Group Theory*, on the Occasion of Arye Juhasz' 70th Birthday, Technion, Israel, January 2017.
- *The 20th Midrasha Mathematicae: 60 Faces to Groups*, Hebrew University of Jerusalem, Israel, November 2016.
- *PIMS Summer School and Workshop on Geometric and Topological Aspects of the Representation Theory of Finite Groups*, University of British Columbia, Canada, July 2016.

- *Conference of High Dimensional Expanders*, Les Diablerets, Switzerland, June 2016.
- *Mini-course on Commutative Algebraic Groups, Hermitian K-Theory and Quadratic Forms*, Lens, France, May 2016.
- *Workshop on Local-Global Principles and Their Obstructions*, Pennsylvania University, USA, October 2015.
- *12th Brauer Group Conference*, Pingree Park, Colorado USA, June 2015.
- *Second Joint International Meeting of the Israel Mathematical Union and the American Mathematical Society*, Tel-Aviv University and Bar-Ilan University, Israel, June 2014.
- *The 21st Amitsur Memorial Symposium*, Bar-Ilan University, Israel, June 2014.
- *Quadratic Forms, Lattices and Applications*, Les Diablerets, Switzerland, March 2014.
- *The 17th Midrasha Mathematicae: L-Functions, Spectra and Equidistribution*, Hebrew University of Jerusalem, Israel, December 2013.
- *Conference on Classical Aspects of Ring Theory and Module Theory*, Bedlewo, Poland, July 2013.
- *Mini-course on quadratic forms, $\mathbb{A}^1$-homotopy theory and exceptional groups*, Lens, France, June 2013.
- *Conference on Galois groups and Brauer groups*, Technion, Israel, January 2013.
- *10th Brauer Group Conference*, Pingree Park, Colorado USA, August 2012.
- *Winter School on Galois Theory*, Luxembourg, February 2012.
- *Brauer Group Mathematical Retreat*, Ketorah, Israel, August 2010.
- *Quadratic Forms, Algebraic Groups and Algebraic Cobordism*, University of Nottingham, UK, August 2008.

Other Skills

Programming. I have experience with programming in `C++`, `python`, `VB`. Two of my papers were released with `python` code relevant to the paper.

Music. I play the clarinet. In the past I played in wind bands and nowadays I enjoy playing chamber music in small ensembles. Video links to some of my performances may be found on my website, or by searching on `Youtube`.