Leo Corry - Academic CV - https://www.leocorry.com/
Bert Cohn Professor (Emeritus) for History and Philosophy of Science, Tel-Aviv University;
President, The Open University of Israel

Last Update: November 2024

Fields of Research: History of Modern Algebra; History of Number Theory; The Euclidean Tradition in the Middle Ages and the Early Modern Period; David Hilbert and the Göttingen School; Nicolas Bourbaki and its Influence on Modern Mathematics; History of Computing; History of Mathematical Physics; The Intellectual World of Albert Einstein; Modernism and Science; Science in Israel; Science in Latin America; The Intellectual World of Jorge Luis Borges.

1. Education

1984-90:   PhD, History and Philosophy of Science – Tel Aviv University, Israel
Thesis: The Origins of Category Theory as a Mathematical Discipline
Advisors: Sabetai Unguru, Shmuel Rosset

1982-83:   M Sc, Pure Mathematics – Tel Aviv University, Israel
Thesis: Splitting Data in Cohomology Classes - **Advisor:** Shmuel Rosset

1972-77:   Licenciatura en Matemáticas (**cum laude**) – Univ. Simón Bolívar, Caracas, Venezuela

1967-72:   High-School – Colegio Moral y Luces, Herzl-Bialik, Caracas, Venezuela

2. Distinctions, Fellowships, Awards:

2024:   AMS - Albert Leon Whiteman Memorial Prize

2022:   Kadar Family Award for Outstanding Research, Tel Aviv University

2021:   ETH Zürich, Guest Professor

2019:   Brazilian Academy of Philosophy: Doctor *Honoris Causa*

2013:   The Bert and Barbara Cohn Chair for History and Philosophy of Science

2006:   International Congress of Mathematicians, Madrid - Invited Section Lecture

2006:   Institute for Advance Study, WIKO Berlin – Rector's Distinguished Fellow

1995-96:   Dibner Institute for History of Science, MIT, Cambridge, MA – Research Fellow

1994-95:   Max-Planck-Institut für Wissenschaftsgeschichte, Berlin – Research Fellow

1990-91:   Edelstein Center for History and Philosophy of Science, Hebrew University, Jerusalem – Post-Doctoral Fellow

2020-23:   Israel Science Foundation, Research Grant: "After WEIZAC: Computers and Computing in Israel (1960-1985)".

2016-19:   Israel Science Foundation, Research Grant: "The History of Computing in Israel (1955-1985)".

2009-11:   G.I.F. Research Grant (together with Prof. Moritz Epple, Universität Frankfurt) "Between Modernism and Application: A Comparative Approach to Mathematical Research Culture in the early 1900's"

3. Teaching:

1985 - : Cohn Institute for History and Philosophy of Science, Tel-Aviv University:
Instructor - 1985, Lecturer - 1996, Senior Lecturer - 1998, Associate Professor – 2004, Full Professor – 2007

1989-94: The Lautman Interdisciplinary Program for Fostering Excellence - Acting academic coordinator

1983-86: School of Mathematics, Tel-Aviv University - Instructor

1983-88: Dept. of Mathematics, The Open University of Israel- Course Coordinator

1973-77: Dept. of Mathematics, Univ. Simón Bolívar, Caracas, Venezuela - Teaching Assistant

4. Academic Activities, Service and Editorial Boards:

2023 - : The Open University of Israel – President

2015 - 2020: Entin Faculty of Humanities, TAU – Dean

2015 - 2016: TAU Board of Governors – Academic Representative

2013 - 2015: TAU Graduate School of Historical Studies – Director

2003 - 2009: Cohn Institute for History and Philosophy of Science, TAU – Director

1999 – 2009; 2011-2013: *Science in Context* –Editor in Chief

2022 - : TAU Center for Artificial Intelligence and Data Science – Academic Committee

2022 - : Weizmann Institute, "Mandel Program for Art, Humanities, and Science" – Steering Committee

2021-23: TAU University Promotions and Nominations Committee

2021 - : TAU Wiener Library for the Study of the Nazi Era and the Holocaust - Academic Committee

2018 - : TAU Chaim Weizmann Institute for the Study of Zionism and Israel, - Academic Committee

2012-13: TAU University Promotions and Nominations Committee

2006 - : *Logica Universalis* – Editorial Board

2004 -10: Netvision Institute for Internet Studies, Tel-Aviv University - Academic Board

2001 - : *Mathematical Reviews* (Historical Section) - Permanent Review Staff Member

2000 - : *Revista Brasileira de Historia da Matemática* - Editorial Board

1999-2004: *Revue d`histoire des mathématiques* (Soc. Math. France) – Editorial Board

1999 - : *EIAL – Estudios Interdisciplinarios de America Latina y El Caribe* - Editorial Board

1999-2021: Instituto de Historia y Cultura Latinoamericana, Tel Aviv University - Academic Board

1998-2002: *Llull* - Journal of the Spanish Assoc. HPS - Editorial Board

1995-2005: *Mathesis*, Revista de Historia de las Matemáticas - Editorial Board

5. Service as External Academic Evaluator and Refereeing:

1. **Academic Quality Assessment and Grant Proposal Evaluations:** Agenzia Nazionale di Valutazione del Sistema Universitario e della Ricerca (Italia); Social Sciences and Humanities Research Council of Canada (Canada); Israeli Science Foundation (ISF); German-Israeli Foundation for Scientific Research and Development (GIF); CNRS (France); Minerva Foundation (Germany); Humboldt Stiftung; American Philosophical Society; Millennium Science Initiative (The World Bank); Gutenberg Research College (Johannes Gutenberg University, Mainz); Austrian Science Fund (FWF); Zukunftskolleg, University of Konstanz

2. **Peer-Review Activity for Academic Journals:** Historia Mathematica, Studies in History and Philosophy of Science, International Journal for the History of Mathematics Education, Revue d'histoire des mathematiques, Annals of Science, Annals of the History of Computing, Configurations, Llull, Synthese, Notices of the American Mathematical Society, Philosophical Transactions of the Royal Society, Journal of the British Society for the History of Mathematics

3. **Peer-Review Activity for Academic Publishers**: Princeton University Press, Oxford University Press, Cambridge University Press, Springer Verlag

4. **Academic Promotion Evaluations**: University of Paris, Case Reserve University, University of Haifa, McGill University, Universität Mainz

5. **PhD Evaluations**: University of Cambridge, University of Uppsala, University of Paris, Bar Ilan University, The Hebrew University – Jerusalem, UNAM México, Universidad de Cádiz, University of Amsterdam

6. Academic Events Organized:

October 2015: Third International Conference on the History and Philosophy of Computing
8-11 October 2015 Pisa.   Program Committee.

December 2011: Mathematical Knowledge and its Applications. The 25th Annual International Workshop on the History and Philosophy of Science. Tel-Aviv University / Van Leer Institute Jerusalem (with Yemima Ben Menachem and Carl Posy).

November 2011: International Conference on the History and Philosophy of Computing
7—10 November 2011 Ghent University, Ghent, Belgium. Celebrating the 75th anniversary of the famous 1936 Papers by A. Church, E.L. Post and A.M. Turing. Program Committee.

August 2010: International Conference on the History of Modern Mathematics: Cultures and elements of practices in mathematics, 1800-1930. 11-17 August 2010 Xi'an, CHINA. (Northwest University, In Association with REHSEIS-SPHERE (CNRS & University Paris Diderot), IASCUD Commission of the DHST). Academic Committee.

October 2008: Between Modernism and Application: Comparative Studies in the History of Early 20th Century Mathematics - (with Moritz Epple and Birgit Bergmann),
Rauischholzhausen (Giessen), Germany

May 2008:   History of Mathematics of the Early 20th Century: The Role of Transition (with Della Fenster and Joachim Schwermer), International Workshop, Mathematisches Forschungsinstitut Oberwolfach, Germany

May 2008:   The Cohn Institute 25 Anniversary Celebration, Tel Aviv University.

Nov 2007:   Science in Yiddish, A symposium to mark the publication of a special issue of Science in Context on "Science and Scholarship in Yiddish", Tel Aviv University

April 2005:   Albert Einstein's Legacy - A One Hundred Years Perspective. An International Symposium organized on behalf of the Israeli Academy of Sciences and Humanities, Jerusalem

March 2005: Cultural Relativity and the Scientific Enterprise: Context and Contingency in the Development of Science. An International Symposium on the Occasion of the Centennial of Albert Einstein's *Annus Mirabilis*, Tal Aviv University

April 2001:   The History of Mathematics in the Last 25 Years: New Departures, New Questions, New Ideas. Tel Aviv University, The Van Leer Institute - Jerusalem

7. Graduate Students Supervised:

DOCTORAL STUDENTS

ILANA WARTENBERG: (Co-supervisor: Tony Levy, Université Paris VII), "Isaac ben Shlomo ben al-Ahdab's 'Epistle of the Number' אגרת המספר. On the Medieval Hebrew Mathematical Bookshelf. **Thesis approved – September 2008**, Tel-Aviv University.

URI PINCAS: "A Computer-Embedded Philosophy of Mathematics" (פילוסופיה של המתמטיקה משובצת מחשב). **Thesis approved – December 2008**, Tel-Aviv University.

ODED KOREN (Co-supervisor: Amiram Yehudai, TAU School of Computer Science): "The "bazaar model": The evolution of the Linux kernel- from pure volunteer spirit to gigantic corporation involvement (1983-2001)". **Thesis approved – November 2010**, Tel-Aviv University.

RAYA LEVIATHAN: "Building the WEIZAC Computer at the Weizmann Institute in the Mid-Fifties: the Decision and its Effects." **Thesis approved – March 2015**, Tel Aviv University.

ITZHAK YOSEF (Co-supervisor: Thomas Ryckman, Stanford University): "The Problem of Causality and Determinism in General Relativity and it Solution." Thesis Completed October 2017, Tel Aviv University.

KATI KISCH BAR-ON (Co-supervisor: Menachem Fisch): "Brouwer's Intuitionism from Within: The Rise and Fall of an Unsuccessful Framework Transition Attempt", **Thesis approved – May 2022**, Tel Aviv University.

ROSIE LEV-HALUTZ: "The Development of non-Euclidean Geometry in the British Context (19th Century)", Thesis begun February 2018, Tel Aviv University.

ELI HARRY: "The Epistemology of AI and Big Data", Thesis begun Apr. 2021, Tel Aviv University.

MIA JOSKOWICZ: "French Translations of Euclid's Elements in the first half of the 17th century: A Study of a Book in the Education Sphere", Thesis begun May. 2024, Tel Aviv University.

MA STUDENTS

ELI HARRY: "The WWW as a 'social' self-organizing system". 2007, Tel-Aviv University.

ITZHAK YOSEF (Co-supervisor: Itamar Pitowsky, Hebrew University): "Causal structure in General Relativity". 2008, Tel-Aviv University.

OFER ZINGER: "The philosophical implications of the developments of the limits of computation". 2008, Tel-Aviv University.

SHLOMI AVNIEL: "Causality, Time & consciousness. Henri Bergson's Philosophical Criticism of Special Relativity". 2008, Tel-Aviv University.

AVI TURGEMAN: "Finitistic Science - An Efficient & Economical Scientific Language". 2008, Tel-Aviv University.

STAV RAVIV (Co-supervisor: Rivka Feldhay, Tel-Aviv University): "Two Dualities: an Anthropology of a Mathematical Result", 2011, Tel-Aviv University.

YEHUDA ALON (Co-supervisor: Ofra Rechter, Tel-Aviv University): "On the Applicability of Mathematics", 2015, Tel-Aviv University.

8. Publications

A. AUTHORED MONOGRAPHS

1. *Pioneering Israeli Women in Electronic Computing (1953—1970),* Cham, Springer Verlag (2025). 125 pp. *(with Raya* Leviathan)

2. *Chaim L. Pekeris and the Art of Applying Mathematics with WEIZAC, (1955–1960),* Cham, Springer Verlag (2023). 125 pp. *(with Raya* Leviathan)

3. *British Versions of Book II of Euclid's Elements: Geometry, Arithmetic, Algebra (1551-1750),* Cham, Springer Verlag (2022). 110 pp.

4. *Distributivity-like Results in the Medieval Traditions of Euclid's Elements. Between Geometry and Arithmetic,* Cham, Springer Verlag (2021). 105 pp.

5. *WEIZAC: An Israeli Pioneering Adventure in Electronic Computing (1945-1963)*, Cham, Springer Verlag (2019). 120 pp. (with Raya Leviathan)

6. *A Brief History of Numbers*, Oxford, Oxford University Press (2015). 330 pp.

   Reviews:
   - P.N. Ruane, *The Mathematical Gazette* 101 (July 2017), 357-358.
   - Robert E. Bradley, *Historia Mathematica* 44 (4), November 2017, 423-424
   - Jesper Lutzen, *Mathematical Intelligencer* 39 (3) (2017), 87–90.
   - Roy Wagner, *Historia* 38 (2017), 137-145.
   - Javier de Lorenzo, *Estudios Filosóficos* 188 (2106), 195-196.
   - James V. Rauff, *Mathematics Teacher* (Vol. 109, No. 8, April 2016).
   - Underwood Dudley, *MAA Reviews* (Oct. 15, 2105).
   - Adhemar Bultheel, *EMS Reviews* (Sept. 8, 2105).

   Translations: Turkish: Doruk Yayinlari (2017), **Italian:** Hoepli Editore (2019), **Spanish:** Real Academia Española de Matemáticas (2021), **Chinese**: Academia Sinica (2023)

7. *David Hilbert and the Axiomatization of Physics (1898-1918). From Grundlagen der Geometrie to Grundlagen der Physik*, Dordrecht, Springer (2004). 513 pp.

   Reviews:
   - Katherine Brading, *Philosophia Mathematica* 16 (2008), 113-129.
   - Daniel Oriti, *Mathematical Reviews*, MR2148225 (2006i:01017).
   - Jeremy Gray, *British Journal for the History of Science*; Sep 2006; 39, 142.
   - Lev Beklemishe, *Studies in History and Phil. of Modern Physics* 37 (2006), 388-390.
   - Tilman Sauer, *Historia Mathematics* 33 (2006), 491-508.
   - E. Roy Weintraub, *Research in the Hist. of Economic Thought*, 24A (2006).

8. *Modern Algebra and the Rise of Mathematical Structures*, Basel and Boston, Springer - Birkhäuser Verlag (1996). [**Second, revised edition** (2004)] – 452 pp.

    Reviews:
    - Karl-Heinz Schlote, *Mathematical Reviews*, 97i:01023 (1997).
    - Lajos Klukovits, *Acta Scientiarum Mathematicarum*, Vol. 64 (1998).
    - Luis Alonso, *Investigación y Ciencia*, January 1998, 90-95.
    - Massimo Mazzotti, *British Journal for the History of Science*, 31 (1998) 99-100.
    - W.W.J. Hulsbergen, *Medelingen van het wiskundig genootschap*, 3 (March 1998).
    - Carlos Ortiz de Landázuri, *Anuario Filosófico*, 3 (1999).
    - Norbert Schappacher, *Mathematische Semesterberichte*, Vol. 46 (2) (1999).
    - Israel Kleiner, in *Historia Mathematica*, 28 (4) (2001), 304-312.
    - Thomas Drucker, *Bulletin of Symbolic Logic*, 13 (1) (2007), 102-104.
    - José Ferreirós, in *Isis* , 100, no. 2 (June 2009): 412-413.

9. *The Literary World of Jorge Luis Borges* [Hebrew: עולמו הספרותי של חורחה לואיס בורחס], The Broadcast University Series, Ministry of Defense, Tel-Aviv (1997). 250 pp.

B. EDITED VOLUMES

1. *Alejo Carpentier's "Concierto Barroco"*, fully annotated Hebrew translation, with a biographic essay, introduction and comments [Hebrew: קונצ'רטו בארוקו – אלחו קרפנטייר], Tel Aviv, TAU Academic Publications (2020). (Companion website: https://www.concierto-barroco.com/)

2. *Science in an Israeli Context: Case Studies*, Editor (with Tal Golan) for a Special Issue of *Science in Context*, Autumn 2010, Cambridge University Press.

3. *Science in the Latin American Context*, Editor for a Special Issue of *Science in Context*, Spring 2005, Cambridge University Press.

4. *New Studies in the History of Modern Mathematics*, Editor for a Special Issue of *Science in Context*, Spring 2004, Cambridge University Press.

5. *Studies on Science in Latin America*, Guest Editor for a Special Issue of *EIAL* (*Estudios Interdisciplinarios de América Latina y el Caribe*), Vol. 14 (1), 2003, Tel-Aviv Univeristy.

C. ARTICLES in REFEREED JOURNALS

1. "Cómo se escribirá en el futuro la historia del COVID-19 en Israel?", *História, Ciências, Saúde – Manguinhos* 29 (3) (2022). online https://doi.org/10.1590/S0104-59702022000300009

2. "Hilbert's 6th Problem: Between the Foundations of Geometry and the Axiomatization of Physics", *Philosophical Transactions of the Royal Society* (A) – 376 (2018): 1-16.

3. "From the Universal Turing Machine to Turing's Analog Computer: Father of the Modern Computer?", *Communications of the ACM* 60 (8), (2017): 50-58.

4. "Some distributivity-like results in the medieval arithmetic of Jordanus Nemorarius and Campanus de Novara", *Historia Mathematica* 43 (2016): 310-331.

5. "Geometry and Arithmetic in the Medieval Traditions of Euclid's *Elements*: a View from Book II", *Archive for History of Exact Science* 67 (6) (2013): 637-705.

6. "Science in an Israeli Context: Case Studies. Introduction", *Science in Context* 23 (4) (2010): 393-394 (with Tal Golan).

7. "Zionist Internationalism through Number Theory: Edmund Landau at the Opening of the Hebrew University in 1925", *Science in Context* 23 (4) (2010): 427-471 (with Norbert Schappacher).

8. "Hunting Prime Numbers from Human to Electronic Computers", *The Rutherford Journal* (rutherfordjournal.org) Vol. 3 (2010).

9. "On the History of Fermat's Last Theorem: Fresh Views on an Old Tale", *Mathematische Semetersberichte* 57 (1), (2010): 123-138.

10. "Number Crunching vs. Number Theory: Computers and FLT, from Kummer to SWAC (1850-1960), and beyond", *Archive for History of Exact Science* 62(1) (2008): 393-455.

11. "FLT Meets SWAC: Vandiver, the Lehmers, Computers and Number Theory", *IEEE Annals for History of Computing* 30 (1) (2008): 38-49.

12. "Axiomatics between Hilbert and the New Math: Diverging Views on Mathematical Research and their Consequences on Education", *International Journal for the History of Mathematical Education* 2 (2): (2007): 21-37.

13. "Calculating the Limits of Poetic License: Fictional Narrative and the History of Mathematics", *Configurations* 15 (3) (2007): 195-226. [German Translation: "Berechnungen zur Grenze der poetischen Freiheit. Fiktionales Erzählen und die Geschichte der Mathematik", in Andrea Albrecht et al (eds.) *Zahlen, Zeichen und Figuren Mathematische Inspirationen in Kunst und Literatur*, Berlin: De Gruyter (2011), pp. 564-599.]

14. "A Clash of Mathematical Titans in Austin: Robert Lee Moore and Harry Schultz Vandiver (1924-1974)", *Mathematical Intelligencer* 29 (4) (2007): 62-74.

15. "Fermat Comes to America: Harry Schultz Vandiver and FLT (1914-1964)", *Mathematical Intelligencer* 29 (3) (2007): 30-40.

16. "El Teorema de Fermat y sus Historias", *Gaceta de la Real Sociedad Matemática Española* 9 (2) (2006): 387-42.

17. "Science in Latin-American Contexts. An Introduction", *Science in Context* 18 (2) (2005): 174-178.

18. "The History of Modern Mathematics – Writing and Re-Writing", *Science in Context* 17 (1-2) (2004): 1-21.

19. "The Origins of the Definition of Abstract Rings", *Gazette des Mathématiciens*, 83 (Janvier 2000), 28-47. (Reprint: *Modern Logic*, 8 (1-2), 1998-2000: 5-27.)

20. "David Hilbert between Mechanical and Electromagnetic Reductionism (1910-1915), *Archive for History of Exact Science* 53, (1999): 489-527.

21. "From Mie's Electromagnetic Theory of matter to Hilbert's Unified Foundations of Physics", *Studies in History and Philosophy of Modern Physics* 30 (2): 159 – 183.

22. "Hilbert on Kinetic Theory and Radiation Theory (1912-1914)", *Mathematical Intelligencer* 20 (1998): 52-58.

23. "The Origins of Eternal Truth in Modern Mathematics: Hilbert to Bourbaki and Beyond", *Science in Context* 12 (1998): 137-183.

24. "Hermann Minkowski and the Principle of Relativity", *Archive for History of Exact Science* 51, (1997), 281-314. [Reprinted in: Vesselin Petkov (ed.), *Minkowski Spacetime: A Hundred Years Later*, New York, Springer (2010), pp. 3-42.]

25. "A Belated Decision in the Hilbert-Einstein Priority Dispute", *Science* 278 (1997): 1270-1273 (with Jürgen Renn and John Stachel).

26. "David Hilbert and the Axiomatization of Physics (1894-1905)", *Archive for History of Exact Science* 51 (1997): 89-197.

27. "Modern Axiomatics and Structural Algebra in the Work of David Hilbert" [Spanish: "Axiomática Moderna y Algebra Estructural"], *Mathesis* 12 (1996): 1-56.

28. "Eudoxus' Proportion Theory as seen by Richard Dedekind" [Spanish: "La Teoría de las Proporciones de Eudoxio Vista por Dedekind"], *Mathesis* 10 (1994): 35-68.

29. "Kuhnian Issues, Scientific Revolutions and the History of Mathematics", *Studies in History and Philosophy of Science* 24 (1993): 95-117.

30. "Nicolas Bourbaki and the Concept of Mathematical Structure", *Synthese* 92 (1992): 315-348.

31. "Jorge Borges: Author of 'The Name of the Rose'", *Poetics Today* 13 (1992): 425-445. [Reprinted in: Nicholas Gane and Mike Gane (eds.), *Umberto Eco* , London, Sage (Masters in Modern Social Thought Series) (2005), Vol. 2: 389-406.]

32. "Textbooks and Images of Algebra in the Late Nineteenth Century" [Spanish: "Libros de Texto e Imágenes del Algebra en el Siglo XIX"], *Llull* 14 (1991): 7-30.

33. "Linearity and Reflexivity in the Growth of Mathematical Knowledge" *Science in Context* 3 (1989): 409-440.

34. "The Splitting Data of Cohomology Classes", *Archiv der Mathematik* 44 (1985): 418-423 (with Shmuel Rosset).

D. CHAPTERS IN REFEREED BOOKS

1. "Emmy Noether's Contribution to the Rise of the Structural Approach in Algebra", in Mechtchild Koreuber et al (eds.) *Wie kommt das Neue in die Welt? – Emmy Noether, die Noether-Theoreme und die moderne Algebra*, Heidelberg, Springer Verlag (Forthcoming 2025 – 30 pp.).

2. "Von Neumann and Impossibility Results", in Toke Knudsen and Jessica Carter (eds.), *Mastering the History of Pure and Applied Mathematics: Essays in Honor of Jesper Lützen*, Berlin, De Gruyter (2004), pp. 75-100.

3. "Two Visions of Modernism: the Soviet School and Bourbaki?", in Tom Archibald and David E. Rowe (eds.), A *Cultural History of Mathematics in the Twentieth Century*, London, Bloomsbury (Vol. 6) (2024): 99-126.

4. "How Useful is the Term 'Modernism' for Understanding the History of Early Twentieth-Century Mathematics?", in Karine Chemla, Ji Lizhen, and Erhard Scholz (eds.) *The Richness of the History and Philosophy of Mathematics*, Cham, Springer Verlag (2023): 393–423.

5. "Creating a Modern Hebrew Language for Mathematics", in Nitsa Movshovitz-Hadar (ed.) *K-12 Mathematics Education in Israel. Issues and Innovations* (2018): 319-326.

6. "Mie's Electromagnetic Theory of Matter and the Background to Hilbert's Unified Foundations of Physics" in Joseph Kouneiher (ed.) *Foundations of Mathematics and Physics One Century After Hilbert - New Perspectives*, New York, Spriner (2018): 75-96.

7. "Steht es alles wirklich schon bei Dedekind? Ideals and factorization between Dedekind and Noether", in Katrin Scheel, Thomas Sonar and Peter Ullrich (eds.) *In Memoriam Richard Dedekind (1831-1916)* Münster, Verlag für wissenschaftliche Texte und Medien (2017), pp. 134-159.

8. "Mathematical Fiction and the Prosaic Dangers of Salgarism", in M. Emmer, M. Abate, M. Falcone, M. Villarreal (eds.) *Imagine Maths 5*, Unione Matematica Italiana, UMI, Bologna and Istituto Veneto di Scienze, Lettere ed Arti, Venice (2016), pp. 57-73.

9. "Writing the Ultimate Mathematical Textbook: Nicolas Bourbaki's *Éléments de mathématique*", in Eleanor Robson et al (eds.) *Handbook of the History of Mathematics*, Oxford, Oxford University Press (2009), 565-587.

10. "The Development of the Idea of Proof up to 1900", in Tim Gowers (ed.) *The Princeton Companion to Mathematics,* Princeton, Princeton University Press (2008), 129-142.

11. "From Algebra (1895) to Moderne Algebra (1930): Changing Conceptions of a Discipline. A Guided Tour Using the *Jahrbuch über die Fortschritte der Mathematik*," in J. Gray and K.H. Parshall (eds.), *Episodes in the History of Modern Algebra*, Providence: American Mathematical Society / London Mathematical Society (2007), 80-105.

12. "The Origin of Hilbert's Axiomatic Method". In: Jürgen Renn et al (eds.). *The Genesis of General Relativity, Vol. 4 Theories of Gravitation in the Twilight of Classical Physics: The Promise of Mathematics and the Dream of a Unified Theory*, New York, Springer (2006), 139-236.

13. "Axiomatics, Empiricism, and Anschauung in Hilbert´s Conception of Geometry: Between Arithmetic and General Relativity", in: Jeremy Gray and José Ferreirós (eds.) *The Architecture of Modern Mathematics: Essays in History and Philosophy*, Oxford, Oxford University Press (2006), 155-176.

14. "Heinrich Weber's Lehrbuch der Algebra", in I. Grattan-Guinness et al. (eds.) *Landmark Writings In Western Mathematics*, 1640-1940, Amsterdam, Elsevier Science (2004), 690-699.

15. "Scientific Ideas in the Works of Jorge Luis Borges and their Historical Context" [Spanish: "Algunas Ideas Científicas en la Obra de Jorge Luis Borges y su Contexto Histórico"], in Myrna Solotorevsky and Ruth Fine (eds.) *Borges en Jerusalén*, Frankfurt am Main, Vervuert/Iberoamericana (2003), 49-74.

16. "Mathematical Structures from Hilbert to Bourbaki: The Evolution of an Image of Mathematics", in A. Dahan and U. Bottazzini (eds.) *Changing Images of Mathematics in History. From the French Revolution to the new Millennium*, London: Harwood Academic Publishers (2001), 167-186.

17. "The Empirical Roots of Hilbert's Axiomatic Method", in Vincent F. Hendricks et al. (eds.) *Proof Theory: History and Philosophical Significance*, Dordrecht, Kluwer (2000): 35-54.

18. "David Hilbert: Geometry and Physics: 1900-1915", in J.J. Gray (ed.) *The Visual World: Geometry and Physics (1890-1930)*, Oxford, Oxford University Press. (1999), 145-188.

E.   ARTICLES IN GENERAL ACADEMIC JOURNALS

1. "Mathematical Motifs in Borges' Writings: On the Uses and Abuses of Interpretation", *Odissey* Vol. 4 (2009). [Hebrew: מוטיבים מתמטיים ביצירתו של בורחס – על פרשנות והפרזותיה אודיסאה - מסע בין רעיונות]

2. "Albert Einstein and the Theory of Relativity: One Hundred Years of History, One Hundred Years of Historiography", *Zmanim* 71, (2007), 58-69. [Hebrew: אלברט אינשטיין ותורת היחסות: מאה שנים של היסטוריה, מאה " שנים של היסטוריוגרפיה", *זמנים*]

3. "David Hilbert and his Empiricist Philosophy of Geometry ", *Boletín de la Asociación Matemática Venezolana*, 9 (1) (2002), 27-44. [Spanish]

4. "The Influence of David Hilbert and Hermann Minkowski on Einstein's Views over the Interrelation between Physics and Mathematics", *Endeavour* 22(3) (1998): 95-97.

5. "Einstein, Hilbert and the General Theory of Relativity", *Investigación y Ciencia* 206 (Nov. 1998): 28-34. [Spanish]

6. "Jewish Mathematicians in Germany (1895-1933)", *Zmanim* (1998). [Hebrew: מתמטיקאים (1933-1895)" -זמנים "יהודים בגרמניה]

7. "Hilbert's 23 Problems and their Historical Background", *Boletín de la Asociación Matemática Venezolana* 5 (2) (1998). [Spanish]

F. ENCYCLOPAEDIAS ENTRIES, PREFACES AND BIBLIOGRAPHIES

1. "Nicolas Bourbaki", *New Dictionary of Scientific Biography*, Charles Scribner s Sons. (2011).

2. "The History of Algebra", *Encyclopædia Britannica* Online (2007).

3. Preface to the Hebrew Translation of *Siete Noches, Jorge Luis Borge*s, Tel-Aviv, HaKibutz Hamehuad (2007). ["בורחס, פריץ מאותנר, ובעיית השפה"]

4. "Structural Algebra", *Encyclopaedia Italiana - Storia della Scienz*a (2004), Vol. VIII, 193-198.

5. "Theory of Invariants", *Encyclopaedia Italiana - Storia della Scie*nza (2003), Vol. VII, 1025-1029.

6. Preface to the new Hebrew Edition of *Flatland*, E.E. Abbott Tel-Aviv, Babel Publishers (2000).

7. "Relativity and Mathematics – An Annotated Bibliographical Compilation", in *The History of Mathematics from Antiquity to the Present: A Selective Bibliography*, Edited by Joseph W. Dauben, The American Mathematical Society (2000).

8. "Mario Vargas Llosa", "Alejo Carpentier", *Encyclopaedia Hebraica* - Supplemetary Volume (1993) [Hebrew].

G. REVIEWS

1. Sporadic Reviews of historical works – *Mathematical Reviews*, American Mathematical Society (since 2000).

2. Stephen Bell, *A Life in Shadow: Aimé Bonpland in Southern South America, 1817-1858*, Stanford: Stanford University Press (2010). In *EIAL* (2011).

3. Israel, Giorgio; Millán Gasca, Ana . *The World as a Mathematical Game: John von Neumann and Twentieth Century Science*. (Series: Science Networks. Historical Studies, Vol. 38). Switzerland: Birkhäuser Verlag AG, 2009. In *Isis* 102 (1), 186-187 (2011).

4. Timothy Gowers, *Mathematics: A Very Short Introduction* (Oxford University Press). [Hebrew Translation by Dan Drai - Tel Aviv 2007]. In *Galileo, Israeli Journal for Science and Ecology*, December 2007.

5. Ralf Krömer, *Tool and Object: A History and Philosophy of Category Theory* , Berlin, Basel and Boston: Birkhäuser (2007). In *MAA REVIEWS* (2007). http://mathdl.maa.org/mathDL/19/

6. Dennis Overbye, *Einstein in Love : A Scientific Romance* (Hebrew Translation by Ofra Avigad) Haifa University Press. Zmora Bitan, 2005. In *Haaretz- Sfarim*, February 2006.

7. E. Roy Weintraub, *How Economics Became a Mathematical Science* (Duke University Press, 2002). In *Zeitschrift für Nationalökonomie* 79 (3): 289-295 (2003).

8. Charles W. Curtis, *Pioneers of Representation theory: Frobenius, Burnside, Schur, and Brauer* .(History of Mathematics, 15.) xvi + 287 pp., illus., apps., bibl., index. Providence, R.I.: American Mathematical Society, London Mathematical Society, 1999. In *Isis* Vol. 93, 126-127 (2003).

9. Reinhard Siegmund-Schultze, *Mathematiker auf der Flucht vor Hitler: Quellen und Studien zur Emigration einer Wissenschaft,* (Dokumente zur Geschichte der Mathematik, 10.), Braunschweig/ Wiesbaden: Vieweg, (1998). In *Isis* Vol. 92, 415-416. (2002).

10. Erhard Scholz (ed.), *Hermann Weyl's Raum-Zeit-Materie and a General Introduction to his Scientific Work* (Basel: Birkhäuser, 2001). In *Centaurus* Vol. 44 (2), 151-153, (2002).

11. Mario Vargas Llosa, *La Fiesta del Chivo* Madrid, Alfaguara (2001). In *Haaretz- Sfarim*, October 2001.

12. Apostolos Doxiadis, *Uncle Petros and Goldbach's Conjecture* (Hebrew Translation by Amir Zuckerman)., Tel-Aviv, Prosa, Yedioth Aharonoth, 2001. In *Haaretz- Sfarim*, October 2001.

13. Jorge Luis Borges, *Ficciones* (Hebrew Translation by Yoram Bronowski), Tel-Aviv, Hakibbutz Hameuchad (1999). In *Haaretz- Sfarim*, December 1999.

14. Richard Dedekind, *Qué son y para qué sirven los números?, y otros escritos sobre los fundamentos de la matemática*, Edición e introducción a cargo de José Ferreirós, Alianza Editorial, Ediciones de la Universidad Autónoma de Madrid, 1998. In *Llull* 22 (1999).

15. Richard Dedekind, *Theory of Algebraic Integers*, Translated and introduced by John Stillwell, Cambridge Mathematical Library, Cambridge University Press, Cambridge, 1996. In *Llull* 22 (1999).

16. Arnon Avron, *Gödel's Theorems and the Problem of the Foundations of Mathematics* [Hebrew: משפטי גדל ובעיית יסודות המתמטיקה] Tel-Aviv, Ministry of Defence Publications (1998). In Haaretz- Sfarim, August 1998.

17. José Ferreirós D., *El Nacimiento de la Teoría de Conjuntos*, 1854-1908, *Llull* 19 (1996): 613-617.

18. Jean-Paul Pier (ed.), *Development of Mathematics*, 1990-1950. *Mathesis* 12 (1996): 415-423.

19. Hourya Sinaceur, *Corps et Modèles*. In *Historia Mathematica* 23 (1996): 323-327.

20. Jorge Luis Borges, *Historia Universal de la Infamia* (Hebrew Translation by Rena Litvin) Tel Aviv, Am-Oved, Prosa Acheret, 1987. In *Al-Hamishmar*, December 1987.

21. Mario Vargas Llosa, *La Guerra del Fin del Mundo* (Hebrew Translation by Yoav Halevi) Tel Aviv, Schoken, 1987. In *Al-Hamishmar*, October 1987.

22. Alejo Carpentier, *Guerra del Tiempo; El Siglo de las Luces* (Hebrew: Yeshayahu Ostridan) Tel Aviv, Zmora-Bitan, 1987. In *Al-Hamishmar*, July 1987.

H. TRANSLATIONS (SPANISH INTO HEBREW)

1. *Concierto Barroco –* קונצ'רטו באְרוקי , Alejo Carpentier, TAU Academic Publications (2020).

2. *Soñé que la nieve ardía -* חלמתי שהשלג בוער, Antonio Skármeta, Zmora Bitan, Tel-Aviv (1994).

3. *Ardiente Paciencia -* סבלנות בוערת, Antonio Skármeta, Zmora Bitan, Tel-Aviv (1991).

4. *La Casa Verde -* הבית הירוק, Mario Vargas Llosa, Zmora Bitan, Tel-Aviv (1989).

9. Distinguished Invited Lectures:

1. October 12, 2020: Black Hole Initiative Foundations Seminar, Harvard University (Via ZOOM), "Einstein Meets Hilbert on the Way to General Relativity: Who Arrives First?"

2. December 11, 2019: 1st World Congress of the Brazilian Academy of Philosophy in Honor of Newton da Costa 90th Birthday: **Keynote Lecture**, "Creativity and the Limits of Poetic License: the Case of Mathematical Fiction."

3. August 22, 2019: Fifth International Conference on History of Modern Mathematics, Xi'an, China: "Turing's Pre-War Analog Computers: Fatherhood of the Modern Computer Revisited".

4. July 26, 2019: History of Science Society, Annual Meeting, Utrecht: "The Bourbaki Project – 80 years after".

5. June 3, 2019: Interdisciplinary Symposium on the Occasion of the Centenary of Emmy Noether's Habilitation Dissertation, Freie Unievrsität, Berlin: **Keynote Lecture**, "Emmy Noether's Contribution to the Rise of the Structural Approach in Algebra."

6. November 23, 2017: **Dedekind Lectures III**, ETH Zurich: "*Was sind und was sollen die Dedekind'schen Zahlen?* Ideals, Cuts and Chains in a Unified World of Numbers."

7. October 10, 2016: Richard Dedekind Centennial Meeting (1831 - 1916) - **Keynote Lecture**; Number Theory - Algebra - Set Theory - History - Philosophy, "*Steht es alles wirklich schon bei Dedekind?* Ideals and factorization between Dedekind and Noether."

8. May 2, 2016: Workshop "Hilbert's Sixth Problem", University of Leicester (May 02-04, 2016) - **Special LMS-IMA Lecture**: "The Historical Origins of Hilbert's Sixth Problem: Geometry, Mechanics, Kinetic Theory".

9. August 19, 2015: The International Committee for the History of Technology (ICOHTEC), 42nd Symposium, Tel Aviv University, Israel - **Keynote Lecture:** "From the Universal Turing Machine to Turing's Analog Computer: The Fatherhood of the Modern Computer Revisited".

10. October 11, 2012: Royal Flemish Academy of Belgium for Science and the Arts, (Turing in Context II – **Keynote Speaker**): "Turing and the Computational Tradition in Pure Mathematics: The Case of the Riemann Zeta-Function".

11. October 27-29, 2010. Universidad del Valle, Cali, Colombia (Tercera Escuela Nacional de Historia y Educación Matemática): **Three Key-Note Lectures** on Structuralism in 20th Century Mathematics.

12. August 8, 2010. Xi'an University (International Conference on the History of Modern Mathematics. 1800-1930 - **Keynote Lecture**): "Theory and Computations in Number Theory in the USA before 1935: A Tale Of Provincial Life".

13. August 13-15, 2009: The Danish Society of History of Science: three Distinguished Lectures on the History of Modern Mathematics.

14. November 1, 2007: 18th Novembertagung on the History, Philosophy & Didactics of Mathematics. Bonn, November 1 – 4, 2007. **Keynote Lecture**: "Number Crunching vs. Number Theory from Kummer to Sloane –Reflections on the History of a Mathematical Discipline".

15. October 5, 2007: University of Siena, Italy (Axiomatics in Economics: the Rise and Fall - 12th Annual EUROPEAN CONFERENCE ON THE HISTORY OF ECONOMICS). **Keynote Lecture**: "David Hilbert and The Axiomatic Method: Origins and Development".

10. Granted Patents

1. Ofer Michael, Nadav Popplewell, Leo Corry , Hagay Dagan, "Graphical compiler", US Patent 7,203,925 (September 14, 2001) – for EMC^2 Corporation (Hopkinton, MA).

2. Yechiel Yochai, Leo Corry, Haim Kopylovitz, "Grid Storage System and Method of Operating Thereof" - US Patent 8,078,906 (June 10, 2010) – for Infinidat Ltd. (Herzliya, IL).

3. Yechiel Yochai, Leo Corry, Haim Kopylovitz, "Grid Storage System and Method of Operating Thereof" - US Patent 8,443,137 (February 11, 2010) – for Infinidat Ltd. (Herzliya, IL).

4. Leo Corry, Yechiel Yochai, Michael Dorfman, Haim Kopylovitz,, "Grid Storage System and Method of Operating Thereof" - US Patent 8,452,922 (June 17, 2010) – for Infinidat Ltd. (Herzliya, IL).

5. Yechiel Yochai, Leo Corry, Haim Kopylovitz, "Grid Storage System and Method of Operating Thereof" - US Patent 8,495,291 (February 11, 2010) – for Infinidat Ltd. (Herzliya, IL).

6. Yechiel Yochai, Leo Corry, Haim Kopylovitz, Ido Ben-Tsion, "Virtualized storage system and method of operating thereof" - US Patent 8 8,539,193 (February 11, 2010) – for Infinidat Ltd. (Herzliya, IL).

7. Yechiel Yochai, Leo Corry, Haim Kopylovitz, "Virtualized storage system and method of operating thereof" - US Patent 8,555,029 (August 11, 2011) – for Infinidat Ltd. (Herzliya, IL).

8. Yechiel Yochai, Leo Corry, Haim Kopylovitz, "Method of migrating stored data and system thereof" - US Patent 8,577,836 (March 7, 2012) – for Infinidat Ltd. (Herzliya, IL).

9. Yechiel Yochai, Leo Corry, Haim Kopylovitz, "Storage system and method for snapshot space management- US Patent 8,688,935 (January 12, 2011) – for Infinidat Ltd. (Herzliya, IL).

10. Yechiel Yochai, Leo Corry, Haim Kopylovitz, "Grid Storage System and Method of Operating Thereof" - US Patent 8,769,197 (June 5, 2013) – for Infinidat Ltd. (Herzliya, IL).

11. Yechiel Yochai, Leo Corry, Haim Kopylovitz, "Virtualized Storage System and Method of Operating Thereof" - US Patent 8,788,754 (August 11, 2011) – for Infinidat Ltd. (Herzliya, IL).

12. Yechiel Yochai, Leo Corry, Haim Kopylovitz, " Method of allocating raid group members in a mass storage system" - US Patent 8,838,889 (Jan 19, 2010) – for Infinidat Ltd. (Herzliya, IL).

13. Ido Ben-Tsion, Leo Corry, Kariel Sandler, Jacob Broido "Method of migrating stored data and system thereof " – for Infinidat Ltd. (Herzliya, IL) - US Patent 8,856,191 (Aug 1, 2012).

14. Yechiel Yochai, Haim Kopylovitz, Leo Corry "Virtualized storage system and method of operating thereof" – for Infinidat Ltd. (Herzliya, IL) - US Patent 8,918,619 (April 10, 2010).

15. Yechiel Yochai, Sivan Tal, Leo Corry "Handling enclosure unavailability in a storage system" – for Infinidat Ltd. (Herzliya, IL) - US Patent 8,930,663 (Sept. 24, 2012).

16. Haim Kopylovitz, Leo Corry "Storage systems with reduced energy consumption" – for Infinidat Ltd. (Herzliya, IL) - US Patent 8,938,582 (June 30, 2011).

17. Haim Kopylovitz, Leo Corry "Multipath storage system and method of operating thereof" – for Infinidat Ltd. (Herzliya, IL) - US Patent 9,021,232 (June 30, 2011).

18. Haim Kopylovitz, Leo Corry "Storage system and method for reducing energy consumption" – for Infinidat Ltd. (Herzliya, IL) - US Patent 9,152,332 (December 10, 2014).

19. Efraim Zeidner, Leo Corry "Pre-fetching in a storage system" – for Infinidat Ltd. (Herzliya, IL) - US Patent 9,189,407 (February 23, 2012).

20. Ido Ben-Tsion, Leo Corry, Kariel Sandler, Jacob Broido "Method of migrating stored data and system thereof" – for Infinidat Ltd. (Herzliya, IL) - US Patent 9,223,502 (September 4, 2012).