

CURRICULUM VITAE

Galina Weinstein

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Education and research

Years	Degree	Department, Institute
1985-1988	B. A	Theatre Arts, Tel-Aviv University, Israel
1988-1993	M.A	Geophysics for the B.Sc. and history and philosophy of science, Cohn Institute, Tel-Aviv University, Israel
1994-1999	Ph.D.	PhD History and philosophy of science, The Hebrew University of Jerusalem, Israel
1999-2000, 2003-2004	Post Doc.	Edelstein Scholarship, The Edelstein Center for History and Philosophy of Science, The Hebrew University of Jerusalem, Israel
2000	Invited Guest Research Associate	Université de Paris 7, CNRS, Paris, France
2000-2001, 2004-2005	Post Doc.	Vatat scholarship, Department of Philosophy, The University of Haifa, Israel
2004-2007	Post Doc.	GIF scholarship, Department of Philosophy, University of Haifa, Israel. Max Planck Institute for History of Science, Berlin, Germany
2011-2012	Invited Guest Research Associate	Center for Einstein Studies, Boston University, Boston, USA
2017-	Research Associate	Department of Philosophy, University of Haifa, Haifa, Israel

Teaching experience

1994-2003 (adjunct teacher) Physics, Philosophy of Science, The Hebrew University of Jerusalem, Israel

2001-2002 (adjunct teacher) History of Physics, The Weizmann Institute of Science, Israel

2004-2005 (adjunct teacher) Philosophy of Physics, The University of Haifa, Israel

2008-2009 (adjunct teacher) History of Physics, The Hebrew University of Jerusalem, Israel

2012-2013 (substitute teacher) Physics, Ben-Gurion University of the Negev, Israel.

Prizes:

1999 Bar-Hillel Prize for outstanding doctoral student.

1998 Edelstein Prize for outstanding doctoral student.

Member of the American Philosophical Association.

Publications

Books

1. Weinstein, Galina, *Einstein's Pathway to the Special Theory of Relativity*, (Newcastle, UK: Cambridge Scholars Publishing), April 2015.
2. Weinstein, Galina, *General Relativity Conflict and Rivalries: Einstein's Polemics with Physicists*, (Newcastle, UK: Cambridge Scholars Publishing), December 2015.
3. Weinstein, Galina, *Einstein's Pathway to the Special Theory of Relativity, 2ED*, (Newcastle, UK: Cambridge Scholars Publishing), August 2017.

Refereed papers

1. Granek, Galina, "Poincaré's Contributions to Relativistic Dynamics", *Studies in History and Philosophy of Modern Physics* 31:1, 15-48 (March 2000).
2. Granek, Galina, "Why did Poincaré retain the ether?", *Apeiron* 8, No 1 (Jan 2001).
3. Granek, Galina, "What characterizes Poincaré's ether?", *Apeiron* 8, No 1 (Jan 2001).
4. Granek, Galina, "Conventionalism revisited", *Apeiron* 8, No 2, 46-60 (Apr 2001).
5. Granek, Galina, "Rotational motion of the Earth", *Apeiron* 8, No 2, 61-73 (Apr 2001).
6. Granek, Galina, "Annual motion of the earth", *Apeiron* 8, No 3, 7-18 (Jul 2001).
7. Granek, Galina, "Why did Einstein come back to the ether?" *Apeiron* 8, No 3, 19-28 (July 2001).
8. Granek, Galina, "Poincaré's Light Signaling and Clock Synchronization Thought Experiment and its Possible Inspiration to Einstein", *Albert Einstein Century International Conference, AIP Conference Proceedings* 861, 1095 - 1102 (2006).
9. Granek, Galina and Hon, Giora, "Searching for asses and finding a kingdom: the story of the invention of the Scanning Tunneling Microscope (STM)", *Annals of Science*, 09 October 2007.
10. Granek, Galina, and Hon, Giora, "Generating Experimental Knowledge: The Invention and Development of the Scanning Tunneling Microscope", in U. Feest, G. Hon, H-J Rheinberger, J Schickore and F Steinle (eds.), *Generating Experimental Knowledge*, MPI, 2008.
11. Weinstein, Galina, "Einstein's Odyssey to General Relativity", *Scientific American*, 2016 (Heb).
12. Weinstein, Galina, "Why did Einstein Reject the November Tensor in 1912-1913, only to Come Back to it in November 1915?" *Studies in History and Philosophy of Modern Physics*, June 2017.
13. Weinstein, Galina, "The Einstein-Rosen Bridge and the EPR Paradox", *Einstein Studies* volume, forthcoming.

Papers in conferences (lectures, posters)

- 1) *Berlin*. "Scanning Tunneling Microscopy Early History 1979 – 1987," first GIF meeting, Max Planck Institute for the History of Science, Berlin, Germany. July 2004.
- 2) *Berlin*. "Scanning Tunneling Microscopy: Are we to Accept the so-called reality of computer Simulations?" first GIF meeting, Max Planck Institute for the History of Science, Berlin, Germany. July 2004.
- 3) *Tenerife*. "Poincaré's post 1905 response to Einstein's theory of relativity," HGR7. Seventh International Conference on the History of General Relativity, La Orotava, Tenerife. March 12, 2005.
- 4) *Nice*. "Poincaré's post 1905 response to Einstein's theory of relativity," university of Nice, Nice, France. March 21, 2005.
- 5) *Nice*. "Poincaré's ether," university of Nice, Nice, France. March 22, 2005.
- 6) *Haifa*. "How was Scanning Tunneling Microscopy invented? Human inventiveness versus technological problems and Errors," Workshop on Error in Experimental Science, University of Haifa, Haifa, Israel. May 8, 2005.
- 7) *Bern*. "Poincaré's post 1905 response to Einstein's theory of relativity," 13th General Conference of the European Physical Society, EPS13., "Beyond Einstein-Physics for the 21st Century, Bern, Switzerland, 11-14 July, 2005.
- 8) *Paris*. "Poincaré's post 1905 response to Einstein's theory of relativity," Albert Einstein Century International Conference, Paris, France, July 21, 2005.
- 9) *Beijing*. "Poincaré's post 1905 response to Einstein's theory of relativity," 22nd International Congress of History of Science, Beijing, China. July 26, 2005.
- 10) *California*. "Poincaré's light signaling and clock synchronization thought experiment and its possible inspiration to Einstein," Workshop in Honor of Mara Beller, Caltech, Pasadena, California. October 28, 2005.
- 11) *Berlin*. "Scanning Tunneling Microscopy (STM): A story of an unintended invention," GIF group meeting, Max Planck Institute for the History of Science, Berlin, Germany. November 25-26, 2005.
- 12) *Jerusalem*. "Scanning Tunneling Microscopy (STM): A story of an unintended invention," G. Granek and G. Hon, Israel Society for History & Philosophy of Science, Annual Meeting, Museum of Science, Jerusalem. March 26 2006.
- 13) *Haifa*. "Henri Poincaré, Jules Verne, and the embarrassing incident: Does the Earth rotate round the sun?" An Interdisciplinary Conference, representations of Science: a Scientific – Literary Journey with Jules Verne, University of Haifa, Haifa. May 16–17 2006.
- 14) *Virginia*. "The role of error in building the Scanning Tunneling Microscope (STM)", ERROR 2006 – first symposium on philosophy, history, and methodology of error, Virginia Tech, Blacksburg, Virginia. June 1 – 5, 2006.
- 15) *Berlin*. "The role of error in building the Scanning Tunneling Microscope (STM)", G. Granek and G. Hon, Workshop Generating Knowledge with Microscopes, Max Planck Institute for the History of Science, Berlin. June 23 – 25, 2006.

- 16) *Zurich: The STM (Scanning Tunneling Microscopy) project in IBM Zurich Research Laboratory*, Published: Zurich: IBM Zurich Research Laboratory, Summer 2006.
- 17) *Haifa*. "The dynamics of knowledge generation in experimentation: the role of errors and reconceptualization in STM imaging", G. Granek and G. Hon, Workshop Generating Knowledge, University of Haifa, Haifa. February 25 – 28, 2007.
- 18) *Wuppertal*. "Generating Experimental Knowledge: the invention and Development of the Scanning Tunneling Microscope (STM)", G. Granek and G. Hon, Workshop "Generating Experimental Knowledge", University of Wuppertal, Wuppertal. June 14 – 16, 2007.
- 19) *Haifa*. "Einstein: 'The War Is Won, but the Peace Is Not'", G. Granek, Seminar in the faculty of Humanity and arts, Technion, Haifa. March 12, 2008.
- 20) *Haifa*. "Literary Forecasting Length Contraction in 'Alice in Wonderland'", G. Granek, Conference "Fantasy & Reality: Depictions of the past, present & future", University of Haifa, Haifa. March 18-19, 2008.
- 21) *Haifa*. "Einstein pursues a light beam towards Special Relativity: how Einstein created the Special Theory of Relativity?", G. Granek, Seminar in the Department of education in technology and science, Technion, Haifa. April 7, 2009.
- 22) *Jerusalem*. "Origins of the Special Theory of Relativity". G. Granek, Seminar in the Science Teaching Department, Hebrew University of Jerusalem, Jerusalem, May 20, 2009.
- 23) *Jerusalem*. "A lecture in Memory of Max Jammer who Passed Away on December 18: Einstein on Religion, Judaism and Zionism", Science Museum, Jerusalem, March 6, 2011.
- 24) *Bern*. "Two-Body Problem in General Relativity as a Heuristic Guide in Einstein's Work on the Einstein Rosen-Bridge (ER) and on the Einstein-Podolsky-Rosen (EPR) Argument", University of Bern, Bern, September 12, 2017.

Other publications

1. Weinstein, Galina, "From the Berlin 'Entwurf' Field equations to the Einstein Tensor I: October 1914 until Beginning of November 1915", *ArXiv*: 1201.5352v1 [physics.hist-ph], 25 January, 2012.
2. Weinstein, Galina, "From the Berlin 'Entwurf' Field equations to the Einstein Tensor II: November 1915 until March 1916", *ArXiv*: 1201.5353v1 [physics.hist-ph], 25 January, 2012.
3. Weinstein, Galina, "From the Berlin 'Entwurf' Field equations to the Einstein Tensor III: March 1916", *ArXiv*: 1201.5358v1 [physics.hist-ph], 25 January, 2012.
4. Weinstein, Galina, "Einstein's 1912-1913 struggles with Gravitation Theory: Importance of Static Gravitational Fields Theory", *ArXiv*: 1202.2791v1 [physics.hist-ph], 13 February, 2012.
5. Weinstein, Galina, "Einstein the Stubborn: Correspondence between Einstein and Levi-Civita", *ArXiv*: 1202.4305v1 [physics.hist-ph], 20 February, 2012.
6. Weinstein, Galina, "Einstein on the Impossibility of Superluminal Velocities", *ArXiv*: 1203.4954v1 [physics.hist-ph], 22 March, 2012.
7. Weinstein, Galina, "Einstein Chases a Light Beam", *ArXiv*: 1204.1833v1 [physics.hist-ph], 9 April, 2012.
8. Weinstein, Galina, "Genesis of general relativity – Discovery of general relativity", *ArXiv*: 1204.3386v1 [physics.hist-ph], 17 April, 2012.
9. Weinstein, Galina, "Albert Einstein and the Fizeau 1851 Water Tube Experiment", *ArXiv*:

- 1204.3390v1 [physics.hist-ph], 17 April, 2012.
10. Weinstein, Galina, "Did Mileva Marić assist Einstein in writing his 1905 path breaking papers?", *ArXiv*: 1204.3351v1 [physics.hist-ph], 17 April, 2012.
 11. Weinstein, Galina, "Did Poincaré explore the inertial mass-energy equivalence?", *ArXiv*: 1204.6575v1 [physics.hist-ph], 1 May, 2012.
 12. Weinstein, Galina, "Poincaré's Dynamics of the Electron - A Theory of Relativity?", *ArXiv*: 1204.6576v1 [physics.hist-ph], 1 May, 2012.
 13. Weinstein, Galina, "A Discussion of Special Relativity", *ArXiv*: 1205.0221v1 [physics.hist-ph], 2 May, 2012.
 14. Weinstein, Galina, "Einstein's Clocks and Langevin's Twins", *ArXiv*: 1205.0922v1 [physics.hist-ph], 6 May, 2012.
 15. Weinstein, Galina, "Albert Einstein's close friends and colleagues from the Patent Office", *ArXiv*: 1205.3904v1 [physics.hist-ph], 18 May, 2012.
 16. Weinstein, Galina, "Albert Einstein: Rebellious Wunderkind", *ArXiv*: 1205.4509v1 [physics.hist-ph], 22 May, 2012.
 17. Weinstein, Galina, "Albert Einstein at the Zürich Polytechnic: a rare mastery of Maxwell's electromagnetic theory", *ArXiv*: 1205.4335v1 [physics.hist-ph], 22 May, 2012.
 18. Weinstein, Galina, "Biographies of Albert Einstein -- Mastermind of Theoretical Physics", *ArXiv*: 1205.5539v1 [physics.hist-ph], 25 May, 2012.
 19. Weinstein, Galina, "Variation of Mass with Velocity: 'Kugeltheorie' or 'Relativtheorie'", *ArXiv*: 1205.5951v1 [physics.hist-ph], 29 May, 2012.
 20. Weinstein, Galina, "The Einstein-Nordström Theory", *ArXiv*: 1205.5966v1 [physics.hist-ph], 29 May, 2012.
 21. Weinstein, Galina, "A Biography of Henri Poincaré - 2012 Centenary of the Death of Poincaré", *ArXiv*: 1207.0759v1 [physics.hist-ph], 4 July, 2012.
 22. Weinstein, Galina, "Einstein's Pathway to the Equivalence Principle 1905-1907", *ArXiv*: 1208.5137v1 [physics.hist-ph], 25 August, 2012.
 23. Weinstein, Galina, "Albert Einstein's Methodology", *ArXiv*: 1209.5181v1 [physics.hist-ph], 25 September, 2012.
 24. Weinstein, Galina, "Max Born, Albert Einstein and Hermann Minkowski's Space-Time Formalism of Special Relativity", *ArXiv*: 1210.6929v1 [physics.hist-ph], 25 October, 2012.
 25. Weinstein, Galina, "PBR theorem and Einstein's quantum hole argument", *ArXiv*: 1301.7526v [physics.hist-ph], 4 Feb, 2013.
 26. Weinstein, Galina, "The 1905 Relativity Paper and the 'Light Quantum'", *ArXiv*: 1307.2132v [physics.hist-ph], 8 Jul, 2013.
 27. Weinstein, Galina, "The Mythical Snake which Swallows its Tail: Einstein's matter world", *ArXiv*: 1309.6590v [physics.hist-ph], 26 Sep, 2013.
 28. Weinstein, Galina, "George Gamow and Albert Einstein: Did Einstein say the cosmological constant was the "biggest blunder" he ever made in his life?", *ArXiv*: 1310.1033v [physics.hist-ph], 03 Oct, 2013.
 29. Weinstein, Galina, "Einstein and the conservation of energy-momentum in general relativity", *ArXiv*: 1310.2890v [physics.hist-ph], 11 Oct, 2013.
 30. Weinstein, Galina, "Einstein's 1916 derivation of the Field Equations", *ArXiv*: 1310.6541v [physics.hist-ph], 24 Oct, 2013.

31. Weinstein, Galina, "Einstein, Schwarzschild, the Perihelion Motion of Mercury and the Rotating Disk Story", *ArXiv*: 1411.7370v [physics.hist-ph], 26 Nov, 2014.
32. Weinstein, Galina, "Did Einstein 'Nostrify' Hilbert's Final Form of the Field Equations for General Relativity?", *ArXiv*: 1412.1816v [physics.hist-ph], 5 Dec, 2014.
33. Weinstein, Galina, "Einstein's Uniformly Rotating Disk and the Hole Argument", *ArXiv*: 1504.03989v [physics.hist-ph], 15 Apr, 2015.
34. Weinstein, Galina, "Two-body problem in general relativity: A heuristic guide for the Einstein-Rosen bridge and EPR paradox", *ArXiv*: 1511.05920v [physics.hist-ph], 18 Nov, 2015.
35. Weinstein, Galina, "1932 Efforts of Persuasion on the Part of Einstein to Renounce the Cosmological Constant", *ArXiv*: 1512.02169v [physics.hist-ph], 07 Dec, 2015.
36. Weinstein, Galina, "Einstein's Discovery of Gravitational Waves 1916-1918", *ArXiv*: 1602.04040v [physics.hist-ph], 12 Feb, 2016.
37. Weinstein, Galina, "Einstein and Gravitational Waves 1936-1938", *ArXiv*: 1602.04674v [physics.hist-ph], 15 Feb, 2016.
38. "Albert Einstein – Marvelous Physical Music." *Segula: Jewish and Israeli History Magazine*, 2017 (Hebrew).

Media Coverage

<http://longstreet.typepad.com/thesciencebookstore/physics-math-books-for-late-february-2015.html>

<http://www.technologyreview.com/view/427621/did-einsteins-first-wife-secretly-coauthor-his-1905-relativity-paper/>

<http://www.theverge.com/2012/4/18/2957592/einstein-special-theory-of-relativity-co-authored-mileva-maric>

<http://philosophyofscienceportal.blogspot.co.il/2012/04/did-mileva-maric-assist-einstein.html>

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