Martin Land
3 Yehuda Street
Jerusalem 9362725

Education

- PhD, Physics, Tel Aviv University, Tel Aviv, 1996.
  Thesis: "Off-Shell Quantum Electrodynamics"
- MS, Physics, Hebrew University, Jerusalem, 1986.
  Thesis: "Operator Ordering Ambiguity in Supersymmetric Quantum Mechanics"
- MS, Electrical Engineering, Columbia University, New York, 1979.
- BA, Physics, Reed College, Portland, Oregon, 1977.
  Thesis: "The Clifford Algebra Over R^n"

Professional Employment

2007 - present **The Open University of Israel.**
Department of Computer Science.
Seminar course: Computer Networks / Distributed Algorithms.

1997 - present **Hadassah Academic College.**
Department of Computer Science.
Senior lecturer in computer science, especially computer architecture, microprocessors, embedded systems and computer networking. Advise and evaluate student final projects.

1996 - 2000 **Inter-University Center for Terrorism Studies.**
George Washington University, Tel Aviv University, and Holon Institute of Technology.
Research fellow in the study of cyber-terrorism, critical infrastructure protection and the social responsibility of the computing profession. Technical editor, *Terrorism*, a scholarly Internet journal (1996 - 1999).

1995 - 1998 **Holon Institute of Technology.**
Department of Communications Engineering.
Lecturer in communications engineering, especially computer networking.

1995 Technical Writer.

1989 - 1995 **Hebrew University, Jerusalem.**
Department of Computer Science.
Management of the Hardware Laboratory and overall responsibility for hardware R&D in the ***Makbilan*** Parallel Computing Project.

1982 **Bankers Trust Company, New York.**
Assistant Treasurer (Systems Engineer), Telecommunications Division.
Planned expansion of data communications facilities for computer-based international electronic funds transfer management system.

1979-1982 **Bell Telephone Laboratories,**
Member of Technical Staff

1981-1982 **Long Haul Lightwave System Development Group**
Research and development for application of fiber optic technology to long haul telephone network.

1979-1981 **Lightwave Applications and Technology Department**
Research and development for application of fiber optic technology to computer networking, television transmission, and special services, such as the 1980 Winter Olympics.

Summer 1978 **United States Department of Energy, Environmental Measurements Laboratory (EML)**
Designed instruments for use in current research at the EML.

1973-1977 **Reed College, Portland Oregon**
1973-1975 Teaching assistant.
1975-1977 Research grant for study of Pockels effect in optical communications.

Other Professional Activities

- *International Association for Relativistic Dynamics* (http://www.iard-relativity.org)
  President 2006 – present, Secretary 2004 – 2006
- Licensed electrical engineer

e-mail: martin@hac.ac.il http://cs.hac.ac.il/staff/martin Telephone: +972-52-240-3792

Publications

Books

1. Martin Land and Lawrence P. Horwitz, *Relativistic Classical Mechanics and Electrodynamics*, Morgan & Claypool Publishers, 2020.
2. Shai Ginsberg, Martin Land, and Jonathan Boyarin (eds.), *Jews and the Ends of Theory*, Fordham University Press, 2018.
3. Jonathan Boyarin and Martin Land, *Time and Human Language Now*, Prickly Paradigm Press, 2008.

Refereed Articles

1. Martin Land,
   A new approach to the evolving 4+1 spacetime metric, to appear Journal of Physics Conference Series (2021).
2. Jonathan Boyarin and Martin Land,
   A Jewish Anthropology of the Present; or, The History of the Jewish Question as a Nightmare from Which We Will Never Awaken, chapter in Dalsheim and Starrett (eds.), The Jewish Question Again. Chicago: Prickly Paradigm Press, pages 33-58, 2020.
3. Martin Land,
   A 4+1 Formalism for the Evolving Stueckelberg-Horwitz-Piron Metric, Symmetry, Volume 12, (2020) 1721.
4. Martin Land,
   Local metric with parameterized evolution, Astronomische Nachrichten, Volume 340 (2019) 983.
5. M. C. Land,
   Mass-Energy-Momentum Radiation in Stueckelberg-Horwitz-Piron (SHP) Electrodynamics, Journal of Physics: Conference Series, Volume 1239 (2019) 012005.
6. M. C. Land,
   Classical Stueckelberg-Horwitz-Piron Electrodynamics, chapter in Relativity, Gravitation, Cosmology: Beyond Foundations, edited by Valeriy Dvoeglazov, Nova Science Publishers, 2019.
7. M. C. Land,
   Speeds of light in Stueckelberg-Horwitz-Piron electrodynamics, Journal of Physics: Conference Series, Volume 845 (2017) 012024.
8. M. C. Land,
   The Particle as a Statistical Ensemble of Events in Stueckelberg-Horwitz-Piron Electrodynamics, Entropy 2017, 19(5), 234; doi:10.3390/e19050234.
9. Jonathan Boyarin and Martin Land,
   Jewish Rhetorics and the Contemplation of a Diminished Future, transversal: Journal for Jewish Studies, 14 (2016), 11 (https://doi.org/10.1515/tra-2016-0002).
10. M. C. Land,
    Field signature for apparently superluminal particle motion, Journal of Physics: Conference Series, 615 012008 (2015).
11. M. C. Land,
    Pair production in Classical Stueckelberg-Horwitz-Piron electrodynamics, Journal of Physics: Conference Series, 615 012007 (2015).
12. M. C. Land,
    Electrostatics in Stueckelberg-Horwitz Electrodynamics, Journal of Physics: Conference Series, 437 012012 (2013).
13. M. C. Land and L. P. Horwitz,
    Offshell Quantum Electrodynamics, Journal of Physics: Conference Series, 437 012011 (2013).
14. M. C. Land,
    The Abraham-Lorentz-Dirac equation in 5D Stueckelberg Electrodynamics,
    Journal of Physics: Conference Series, 330 012015 (2011).
15. M. C. Land,
    Harmonic Oscillator States with Integer and Non-Integer Orbital Angular Momentum,
    Journal of Physics: Conference Series, 330 012014 (2011).
16. Martin Land and Jonathan Boyarin,
    The State between Race and Religion: A Conversation, in Race and Political Theology, edited by Vincent W. Lloyd and Gregory Kaplan, Stanford University Press (2011).

17. M. C. Land,
Coulomb Potential from Lorentz Invariance in N Dimensions, Foundations of Physics, 37 (2007).
18. Jonathan Boyarin and Martin Land,
A Moment of Danger, A Taste of Death, Cardozo Law Review, 26 (2005).
19. M. C. Land,
Duality in Off-Shell Electrodynamics, Foundations of Physics, 35 (2005).
20. M. C. Land,
The Discrete Symmetries of Off-Shell Electrodynamics, Foundations of Physics, 35 (2005).
21. M. C. Land,
Higher-Order Kinetic Term for Controlling Photon Mass in Off-Shell Electrodynamics, Foundations of Physics, 33 (2003) 1157.
22. M. C. Land,
The Covariant Stark Effect, Foundations of Physics 31 (2001) 967.
23. M. C. Land, *Thoughts on Cyber Terrorism and Information Warfare*, The Age of Super and Cyber Terrorism: Selected Papers, Potomac Institute for Policy Studies, Yonah Alexander, ed., (1999). Reprinted in Cyber Terrorism and Information Warfare: Threats and Responses, Yonah Alexander, Michael S. Swetnam, eds., Transnational, Ardsley, NY, (June 1, 2001)
24. M. C. Land,
The Classical Coulomb Problem in Pre-Maxwell Electrodynamics, Foundations of Physics 28 (1998) 1499.
25. M. C. Land,
Pre-Maxwell Quantum Electrodynamics, Foundations of Physics 28 (1998) 1489.
26. M. C. Land,
Pre-Maxwell Electrodynamics, Foundations of Physics 28 (1998) 1479.
27. M.C. Land and L.P. Horwitz,
Off-Shell Phenomena In Coulomb Scattering, Physics Letters A. 239 (1998) 135.
28. M.C. Land,
Events and Particles in Classical Off-Shell Electromagnetism, Foundations of Physics, Vol. 27, 1997, p. 19 (invited paper).
29. M.C. Land and L.P. Horwitz,
The Zeeman Effect for the Relativistic Bound State, Journal of Physics, A: Mathematical and General, Vol. 28, 1995, p. 3289.
30. M.C. Land, N. Shnerb, and L.P. Horwitz,
On Feynman's Approach to the Foundations of Gauge Theory, Journal of Mathematical Physics, Vol. 36, 1995, p. 3263.
31. M.C. Land, R.I. Arshansky, and L.P. Horwitz,
Selection Rules for Dipole Radiation from a Relativistic Bound State, Foundations of Physics, Vol. 24, p. 563, 1993.
32. M.C. Land and L.P. Horwitz,
Green's Functions for Off-Shell Electromagnetism and Spacelike Correlations, Foundations of Physics, Vol. 21, p. 299, 1991.
33. M.C. Land and L.P. Horwitz,
The Lorentz Force and Energy-Momentum for Off-Shell Electromagnetism, Foundations of Physics Letters, Vol. 4, p. 61, 1991.

Papers Presented at Conferences

1. M. C. Land,
Local Metric with Parameterized Evolution, STARS 2019, Havana, Cuba, 6 - 9 May 2019.
2. M. C. Land,
Mass-Energy-Momentum Radiation in Stueckelberg-Horwitz-Piron (SHP) Electrodynamics, IARD 2018 (International Association for Relativistic Dynamics), Mérida, Yucatán, Mexico 4 - 7 June 2018.
3. Lawrence Horwitz, Rafael Arshansky, and Martin Land,
Relativistic Entanglement, IARD 2018 (International Association for Relativistic Dynamics), Mérida, Yucatán, Mexico 4 - 7 June 2018.
4. Jonathan Boyarin and Martin Land,
Jewish History As a Nightmare from Which We Will Never Awaken,

Theory and Forgetting: The Jewish Question Again, Cornell University Program of Jewish Studies, USA, Mar 18, 2018.

5. Land, M.,
The Particle as a Statistical Ensemble of Events in Stueckelberg–Horwitz–Piron Electrodynamics, Proceedings of the 3rd Int. Electron. Conf. Entropy Appl., 1–10 November 2016; Sciforum Electronic Conference Series, Vol. 3, 2016 , A002; doi:10.3390/ecea-3-A002.
6. M. C. Land,
Speeds of Light and Mass Stability in Classical Electrodynamics, IARD 2016 (International Association for Relativistic Dynamics), Ljubljana, Slovenia 6 - 9 June 2016.
7. Martin Land and Jonathan Boyarin,
Commentary on Derrida's Specters for Two Hands, Derrida's Jewish Specters, Cornell University, September 16, 2014.
8. M. C. Land,
Pair Production in Classical Electrodynamics, 4th GIF Workshop: Exploring the Full Range of Electrodynamics, Jerusalem College of Technology, October 19-24, 2014.
9. M. C. Land,
Pair Production in Classical Stueckelberg-Horwitz Electrodynamics, IARD 2014 (International Association for Relativistic Dynamics), Storrs, Connecticut, June 9-13, 2014.
10. M. C. Land,
Against 'the Attack on Linking:' Rearticulating 'the Jewish Intellectual' for Today, Jews and the Ends of Theory, Duke University, April 30 - May 1, 2013.
11. M. C. Land,
Topics in 5D Electrodynamics: From Uniform Motion to Radiation Reaction, IARD 2012 (International Association for Relativistic Dynamics), Florence, Italy, May 29 - June 1, 2012.
12. M. C. Land,
3D Electrostatics in 5D Stueckelberg Electrodynamics, IARD 2012 (International Association for Relativistic Dynamics), Florence, Italy, May 29 - June 1, 2012.
13. M. C. Land,
5D Stueckelberg-Horwitz Electrodynamics, 2nd GIF Workshop: Exploring the Full Range of Electrodynamics, Jerusalem College of Technology, February 20 - 23, 2012.
14. Jonathan Boyarin and Martin Land,
Jewish Rhetorics and the Contemplation of a Diminished Future,
Topoi of Time: Jewish Interpretations of Human and Other Temporalities, London, UK, May 23 - 25, 2011.
15. M. C. Land,
The Abraham-Lorentz-Dirac equation in 5D Stueckelberg Electrodynamics,
IARD 2010 (International Association for Relativistic Dynamics), Hualien, Taiwan, May 30 - June 1, 2010.
16. M. C. Land,
On Timelike Excitations in the Relativistic Harmonic Oscillator,
IARD 2008 (International Association for Relativistic Dynamics), Thessaloniki, Greece, June 22-26, 2008.
17. M. C. Land,
Dirac Monopole from Lorentz Symmetry,
IARD 2006 (International Association for Relativistic Dynamics), Storrs, Connecticut, June 12-14, 2006.
18. M. C. Land,
Regulating Photon Mass in Classical 5D Gauge Theory, IPS2004 (The 50th Annual Meeting of the Israel Physical Society), Technion, Haifa, December 9, 2004.
19. M. C. Land,
The Discrete Symmetries of Off-Shell Electrodynamics, IARD 2004 (International Association for Relativistic Dynamics), Saas Fee, Switzerland, June 12-19, 2004.
20. M. C. Land,
Higher-Order Kinetic Term for Controlling Photon Mass in Off-Shell Electrodynamics,
IARD 2002 (International Association for Relativistic Dynamics), Washington, D.C., USA, June 24-26, 2002.
21. M. C. Land,
The Covariant Stark Effect,
IARD 2000 (International Association for Relativistic Dynamics), Ramat Gan, ISRAEL, June 26-28, 2000.
22. M. C. Land,
Thoughts on Cyber Terrorism and Information Warfare,
Counter Terrorism Strategies in the 21st Century: National, Regional, and Global Agenda, Tel Aviv University, Israel, March 1999. Appears in "The Age of Super and Cyber Terrorism: Selected Papers," PIPS-99-5, Potomac Institute

for Policy Studies, 1999, and in Yonah Alexander and Michael S. Swetnam, eds., *Cyber Terrorism and Information Warfare : Threats and Responses*, Transnational Pub, 2001.

23. M. C. Land,
The Classical Coulomb Problem in Pre-Maxwell Electrodynamics,
The First International Conference on Parameterized Relativistic Quantum Theory (PRQT), Houston, Texas, USA, February 9-11, 1998.
24. M. C. Land,
Covariant Parameterized Quantum Field Theory,
The First International Conference on Parameterized Relativistic Quantum Theory (PRQT), Houston, Texas, USA, February 9-11, 1998.
25. M. C. Land,
Pre-Maxwell Electrodynamics,
The First International Conference on Parameterized Relativistic Quantum Theory (PRQT), Houston, Texas, USA, February 9-11, 1998.
26. A. Ayad, I. Exman, M. Land, L. Rudolph,
An Experimental Cross-Bar Switch For Support Of Collective Communications In Parallel Processing,
Proceedings of the Nineteenth Convention of IEEE in Israel, November 5-6, 1996.
27. M.C. Land and L.P. Horwitz,
Covariant Quantum Mechanics and the Symmetries of its Radiation Fields,
Proceedings of the XVIII International Colloquium on Group Theoretical Methods in Physics, Moscow, June 4-9, 1990, Lecture Notes in Physics, Springer, p. 329.
28. S.S. Austin, M.C. Land, R.R. Schultz,
Lightwave Applications in Data Communications,
Proceedings of IEEE Computer Society International Conference, Sept. 20-23, 1982.

Technical Reports and Proprietary Documents

1. Norman Latner and Martin Land,
Automatic Nickel-Cadmium Battery Pack Evaluator,
EML Technical Memorandum, U.S. Department of Energy, March 1979.
2. M.C. Land,
An RS-232C Interface for the Lightwave Data Interface,
Memorandum for File, Oct. 9, 1980.
3. M.C. Land,
Evaluating Long Wavelength LEDs for Analog Intensity Modulation Systems,
Technical Memorandum, Bell Laboratories, Feb. 3, 1981.
4. M.C. Land,
An Improved Data Acquisition Method for the LED Test Set,
Technical Memorandum, Bell Laboratories, Feb. 3, 1981.
5. S.S. Austin and M.C. Land,
Lightwave Data Transmission Interface -- Description and Operation,
Technical Memorandum, Bell Laboratories, Sept. 24, 1981.
6. M.C. Land,
The Potential Sensitivity Improvement for the FTZ Optical Receiver Using an InGaAs/InP APD,
Engineers Notes, Bell Laboratories, Nov. 9, 1981.
7. M.C. Land,
Equalization of the FTZ Optical Receiver,
Memorandum for File, Bell Laboratories, April 30, 1982.
8. M.C. Land,
Contention Switch for Cash Connector,
Internal Memorandum, Bankers Trust Company, Oct. 12, 1982.
9. M.C. Land,
The Makbilan Gateway: A Bus Extension Module for Multibus II,
Hebrew University Technical Report, 1991.
10. M.C. Land,
Design for a Special Purpose Communications Controller,
Hebrew University Technical Report, 1993.