CURRICULUM VITAE

Name:	Joshua N. Goldberg
Address:	Department of Physics Syracuse University 201 Physics Building Syracuse, NY 13244-1130
Telephone:	(315) 443-5990
Bitnet:	Goldberg@SUHEP
Birthdate:	May 30, 1925
Birthplace:	Rochester, New York

Education:	Ph.D. Physics	Syracuse University	1952
	M.A. Physics	Syracuse University	1950
	B.S. Physics	University of Rochester	1947

MEMBERSHIP IN PROFESSIONAL AND LEARNED SOCIETIES

* International Society for General Relativity and Gravitation
* American Physical Society
* American Association for the Advancement of Science
* Federation of American Scientists
* Sigma Xi

OTHER PROFESSIONAL EXPERIENCES

* International Committee of the International Society for General Relativity and Gravitation 1983-1992
* Editorial Board, Journal of Mathematics and Physics
* Editorial Board of Einstein Centenary, "General Relativity and Gravitation, 100 Years After the Birth of Albert Einstein", 1977-1979

CURRENT RESEARCH INTERESTS

General Relativity:	Conservation Laws, Equations of Motion, Twistors, aud Quantum General Relativity
Special Relativity:	Equations of Motion, Gauge Theories

PROFESSIONAL EMPLOYMENT

1963-present	Professor of Physics, Syracuse University
1993	Visiting Professor, King's College University of London, England
1989	Visiting Professor, King's College University of London, England (Summer 1989)
1983-1984	Visiting Professor, University of Paris VI, Institut Henri Poincaé
1975-1982	Chairman, Department of Physics, Syracuse University
1970-1971	Visiting Professor, The Technion, Haifa, Israel
1962-1963	Adjunct Professor of Physics, University of Cincinnati (taught special and general relativity)
1962-1963	Senior Scientist, Aerospace Research Laboratories, Wright-Patterson Air Force Base, Ohio
1960-1961	National Science Foundation Senior Postdoctoral Fellow, Kings College London, England (research on gravitation)
1958-1959	Lecturer, Wright-Patterson AFB Extension, Ohio State University, (graduate level classical mechanics)
1956-1962	Research Physicist, Aerospace Research Laboratories, Wright Patterson AFB, Ohio (Research on relativistic theories of gravitation and to administer a limited number of contracts in related areas of research)
1952-1956	Research Physicist, Armour Research Foundation, Chicago, Illinois (various applied research projects for industry and government)
1950-1952	Research Assistant, Syracuse University

HONORS AND OFFICES

* Travel and Support Grant from the Science and Engineering Research Council of Great Britain 1992-93
* Grant from Centre National de la Reserche Scientifique for an extended visit to Université de Paris-sud, December, 1993.
* Travel and Support Grant from the Science and Engineering Research Council of Great Britain, 1989-1990
* Outstanding Performance Rating Award, Wright-Patterson Air Force Base, Ohio, 1959
* Senior Postdoctoral Fellowship, National Science Foundation, 1960-1961
* Congressional appointment under Public Law 313, Senior Scientist, Wright-Patterson Air Force Base, Ohio, 1962-1963
* President, Syracuse Chapter AAUP, 1973-1974
* Member International Committee of GRG, 1983-1992

BIBLIOGRAPHY

1. Electric Reonance Transitions in a Tapered Electric Field, Phys. Rev. **89**, 278, (1953) with P. G. Bergmann and J. Trischka.
2. Strong Conservation Laws and Equations of Motion in Covariant Field Theories, Phys. Rev. **89**, 263, (1953).
3. Gravitational Radiation, Phys. Rev. **99**, 1873, (1955).
4. Conservation Laws in General Relativity, Phys. Rev. **111**, 315, (1958).
5. The Measurement of Distance in General Relativity, Phys. Rev. **114**, 1391, (1950) with E. T. Newman.
6. Conservation Laws and Equations of Motion, Conference on the Relativistic Theories of Gravitation, published in Les Theories de la Gravitation (Centre National de la Recherche Scientifique, Paris, 1962).
7. Measurement of Distance, Conference on General Relativity, Brussels, Belgium, June, 1959, published in Colloque sur la Théorie de la Relativité (Centre Belge de Recherche Mathematique, 1960) with E. T. Newman.
8. Some Applications of the Infinitesimal-holonomy Group, J J. Math. Phys. **2**, 317, (1961) with R. P. Kerr.
9. Einstein Spaces with Four-parameter Holonomy Groups, J. Math. Phys. **2**, 332, (1961) with R. P. Kerr.
10. Equations of Motion, in Gravitation, ed. L. Witten (John Wiley and Sons, New York, 1962).
11. Dynamical Variables and Surface Integrals, in Recent Developments in Relativity, (PWN, Warsaw and Pergamon Press, New York, 1962).
12. A Theorem on Petrov Type, Acta Physica Polonica, Supp. **22**, 13 (1962), with R. K. Sachs.
13. Equations of Motion of Point Masses in the General Theory of Relativity, Phys. Rev. **128**, 398 (1962) with Peter Havas.
14. Asymptotic Invariants in a Gravitational Radiation Field, Phys. Rev. **131**, 1367 (1963).
15. Asymptotic Properties of the Electromagnetic Field, J. Math. Phys. **5** ,172 (1964) with R. P. Kerr.
16. Electromagnetic Radiation, in Perspectives in Geometry and Relativity, (Essays in Honor of Vaclav Hlavaty), ed. Banesh Hoffman (Indiana University Press, Bloomington, Indiana, 1966).
17. Gravitation, Encyclopedia of Physics, 297, ff, ed. P. M. Besancon (Reinhold Publishing Corporation, New York, 1966).
18. Spin-s Spherical Harmonics, J. Math. Phys. **8**, 2155 (1967) with A. Macfarlane, E. T. Newman, F. Rohrlich, and E. C. G. Sudarshan.
19. Invariant Transformations and Newman-Penrose Constants, J. Math. Phys. **8**, 2161, (1967).
20. Green's Theorem and Invariant Transformations, J. Math. Phys. **9**, 674 (1968).
21. A Generalization of Green's Theorem, J. Math. Phys. **10**, 369 (1969) with E. T. Newman.
22. Newman-Penrose Constants and their Invariant Transformations, J. Math. Phys. **11**, (1970) with E. N. Glass.
23. Equations of Motion in General Relativity, in Relativity and Gravitation, ed. C. G. Kuper and A. Peres, (Gordon and Breach, New York, 1971).
24. Conservation of the Newman-Penrose Conserved Quantities, Phys. Rev. Lett. **28**, 1400 (1972).
25. Gravitation, The Encyclopedia of Physics, (Reinhold Publishing Company, 1972).

26. The Positivity Conditions in General Relativity, International Journal of Theor. Phys. 7, 31, (1973), with F. Klotz.
27. Conservation Equations and Equations of Motion in the Null Formalism, GRG **5**, 183 (1974).
28. Canonical Quantization, in General Relativity and Gravitation, Proceedings of the Seventh International Conference ,GR7, ed. G. Shaviv and J. Rosen, (John Wiley and Sons, New York, 1974).
29. Comments on Gravitational Radiation Damping and Energy Loss in Binary Systems, Astrophys. J. **208**, L77-L81, (September, 1976) with J. Ehlers, A. Rosenblum, and P. Havas.
30. Equations of Motion in the Null Formalism, GRG 7, (1976) with Pantur Silaban.
31. Interactions between `tHooft-Polyakov Monopoles, Phys. Rev. **D18**, 542, (1978) with P. S. Jang, S. Y. Park, and K. C. Wali.
32. Self-Dual Gauge Fields and Space-Times, in Group Theoretical Methods in Physics, ed. J. Plebanski, (World Scientific, Singapore, 1979).
33. Invariant Transformations, Conservation Laws, and Energy-Momentum, in General Relativity and Gravitation, One Hundred Years after the Birth of Albert Einstein, ed. A. Held (Plenum Press, New York, 1980).
34. Self-Dual Fields, Cosmology and Gravitation, ed. P. G. Bergmann, and V. DeSabbata, NATO Advanced Study Institute Series, vol. 58 (Plenum Press, New York, 1980).
35. Constraint Dynamics of Particle World Lines, Phys. Rev. **D23**, 2231, (1981) with E. C. G. Sudarshan and N. Mukunda.
36. Relativistically Interacting Particles and World Lines, Phys. Rev. **D23**, 2231, (1981), with E. C. G. Sudarshan and N. Mukunda.
37. Limiting Behavior of Asymptotically Flat Gravitational Fields, GRG **13**, 79 (1981) with S. Novak.
38. Conformal Properties of Nonpeeling Vacuum Space-Times, GRG **14**, 655 (1982) with S. Novak.
39. Algebraic Coordinate Conditions in Classical General Relativity, ed. W. B. Bonnor, J. N. Islam, and M. A. H. MacCallum, (Cambridge University Press, Cambridge, 1984).
40. Developments and Predictions in Journes Relativiste, ed. P. Tourrenc, (CNRS, Paris, 1984).
41. The Hamiltonian of General Relativity on a Null Surface, Found. of Phys. **14** ,439 (1985).
42. Canonical Formalism on a Null Surface, Phys. Rev. **D31**, 1354 (1985) with R. Nagarajan.
43. Dirac Brackets for General Relativity on A Null Cone, Found. of Phys. **15**, 439 (1985).
44. Null Cone Canonical Formalism in, Marcel Grossmann Meeting on General Relativity, et. R. Ruffini, (Elsevier Publishers, B. V., 1986).
45. Surface Integrals Associated with the Canonical Formalism on a Null Surface in Gravitational Collapse and Relativity, et. H. Sato and T. Nakamura, (World Scientific, Singapore, 1986).
46. D-Invariance on a Null Surface in Gravitation and Geometry, ed. W. Rindler and A. Trautman, (Bibliopolis, Naples, 1987).
47. Particle Motion and Continua in General Relativity, in General Relativity and Gravitation, GR **11**, et., M. A. H. MacCallum, (Cambridge University Press, Cambridge, 1987).
48. A Triad Approach to the Hamiltonian of General Relativity, Phys. Rev. **D37**, 2116, (1988).
49. A Hamiltonian Approach to the Strong Gravity Limit, GRG **20**, 881, (1988).
50. Conserved Quantities at Spatial and Null Infinity: The Penrose Potential, Phys. Rev. **D41**, 410 (1990).

51. A Canonical Formalism with a Self-dual Maxwell Field on a Null Surface, in 9th Italian Conference on General Relativity and Gravitational Physics, eds. R. Cianci, R. deRitis, M. Francaviglia, G. Marmo, C. Rubano, and P. Scudellaro (Bibliopolis, Naples, 1991) with D. C. Robinson and C. Soteriou.
52. Null Surface Canonical Formalism, in Gravitation and Modern Cosmology, ed. A. Zichichi, V. de Sabbata, and N. Sánchez (Plenum Press, New York, 1991) with D. C. Robinson and C. Soteriou.
53. Self-dual Maxwell field on a Null Cone, GRG **23**, 1403 (1991).
54. On Hamiltonian Systems with first class constraints, J. Math. Phys. **32**, 2739 (1991). with E. T. Newman and C. Rovelli.
55. Quantized self-dual Maxwell field on a null surface, Geom. and Phys., **8**, 163 (1992).
56. Null hypersurfaces and new variables, Class. and Quantum Grav. with D. C. Robinson and C. Soteriou.
57. Air Force Support of General Relativity 1956-72, in Studies in the History of General Relativity, et. J. Eisenstadt and A.J. Knox (Birkhhäuser, Boston, 1992).
58. Degeneracy in Loop Variables, Comm. Math. Phys. **148**, 377 (1992) with J. Lewandowski and C. Stornaiolo.
59. Self-dual Maxwell Field on a Null Surface II, Found. Phys. (1994).
60. Self-duality and Null Surfaces in Aspects of General Relativity and Mathematical Physics - in celebration of the 65th Birthday of Professor Jerzy Plebanski, ed. N. Bretón, R. Capovilla, and T. Matos (Centro de Investigacion y de Estudios Avanzados del I.P.N., Mexico City 1994).
61. Observables and General Relativity, Acta Physica Polonica **85**, 667 (1994) with D.C. Robinson. Linearized Constraints in the Connection Representation: Hamilton-Jacobi Solution, Phys. Rev. **D50**, 6338 (1994).

CASE #118

UAP Document Archive

Archived: 2026-02-26 20:51 UTC

Direct PDF Download

SOURCE URL

https://thecollege.syr.edu/media/documents/JNGoldbergCV-1995-1.pdf

DOMAIN

thecollege.syr.edu

CASE ID

#118 of 924

CONTEXT FROM ORIGINAL DOCUMENT

20March%20-%20Skylook.pdf (p4)
(PUBLIC DOMAIN) - Late 1956 — The General Physics Laboratory of the Aeronautical Research Laboratories/Aerospace Research Laboratories (ARL) at Wright-Patterson AFB hires physicist Joshua N. Goldberg to administer multiple contracts related to relativistic theories of gravitation. Goldberg works here until 1963, before joining the University of Cincinnati for a year and moving on to other universities. Curiously, fellow anti-gravity researcher Louis Witten joined the University of Cincinnati after his contracted work for Wright-Patterson ended in 1968 (see 1955).
Goldberg states in his CV he worked for the Armour Research Foundation in Chicago, IL for four years before being recruited to ARL, working on applied research for industry and government. It is

unclear if Goldberg or ARL worked on UAP-related research but the many possible linkages in the PUBLIC DOMAIN are interesting. Hubert Goenner of Goettingen, a former participant of RIAS (see 1955), writes ARL may have also studied Soviet efforts in anti-gravity.

•