

**Eric R. Weinstein Ph.D.**  
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## EDUCATION

**Harvard University (Cambridge, MA)** *1985 to 1992*  
Ph.D. in Mathematical Physics, Mathematics Department.  
Dissertation title: *Extension of Self-Dual Yang-Mills Equations Across the 8<sup>th</sup> Dimension.*  
Fields of specialization: Mathematical Physics, Gauge Theory, Differential Geometry, and Exceptional Algebra.

**University of Pennsylvania (Philadelphia, PA)** *1982 to 1985*  
M.A., A.B. Combined degree in Mathematics.  
Honors: University Scholar, Magna Cum Laude, Departmental honors, Pi Mu Epsilon honor society.

## PROFESSIONAL EXPERIENCE

**AdKap LLC / Capital Market Risk Advisors (New York, NY)** *2001 to Present*  
Head of Research (AdKap LLC) / Consultant-at-Large (CMRA). Analyzed problems of transparency endemic to hedge funds with illiquid exposure. Created 'Phantom Pricing' model to solve problems of performance reporting for portfolios holding illiquid instruments. Provisional patent application for the protection of the method filed jointly with A. Abdulali, September 2001.

**United Nations / International Labor Office (Geneva, Switzerland)** *2000 to 2002*  
External Collaborator. Analyzed and proposed a fundamental restructuring of the foreign worker program of Kuwait where migrants outnumber citizens. Created 'Permit Market' model using Coasian analysis to solve a collection of common migrant problems which is now under consideration as a U.N. flagship model for international migration programs (pending adoption by MIGRANT division in Geneva).

**National Bureau of Economic Research / Harvard University (Cambridge, MA)** *1998 to 2001*  
Co-director of the Project on the Economics of Advanced Training in Science, Engineering, and Related Disciplines. Research Associate in the Harvard department of economics. Pursued research in intertemporal economics via the discovery of a novel application of differential geometry and mathematical physics to neo-classical theory.

**Massachusetts Institute of Technology (Cambridge, MA)** *1993 to 1998*  
Instructor and National Science Foundation Post-doctoral Fellow in the Department of Mathematics. Pursued research in Mathematical Physics, Intertemporal Economics, Scientific Labor Markets, and Differential Geometry.

**Hebrew University of Jerusalem (Jerusalem, Israel)** *1991 to 1993*  
Post-doctoral Fellow in both the Racah Institute of Physics and the Einstein Institute of Mathematics. Co-organizer of the Lie Groups and Physics Seminar. Pursued research in Higher Dimensional Elliptic Gauge Theories and closely related areas.

**SELECTED HONORS, FELLOWSHIPS, GRANTS, AND AWARDS**

- Harvard University Trade Union Program** 1999-2002  
Guest Faculty.
- Alfred P. Sloan Foundation** 1998-2000  
Principal investigator on a research grant supporting research in Gauge Theory and Intertemporal Economics.  
Co-principal investigator with Professor Richard Freeman of Harvard University and the National Bureau for Economic Research on a research grant supporting research on the analysis of scientific labor markets.
- National Science Foundation** 1993-1997  
National Science Foundation Post-doctoral Fellowship competition winner. Fellowship residence: MIT.
- Israeli Mathematical Union** Spring 1993  
Invited to organize and run the session on Mathematical Physics for the annual nation-wide conference.
- Hebrew University of Jerusalem** 1992-1993  
Held Lady Davis Fellowship.
- Office of Naval Research** Fall 1985-Spring 1988  
Ranked first in nation-wide doctoral fellowship competition. Fellowship residence: Harvard University.
- Harvard University** Spring 1988  
Nominated for university-wide Levinson Memorial Teaching Award.

**SELECTED RECENT ARTICLES and PUBLICATIONS**

- Hedge Fund Transparency: Quantifying Valuation Bias for Illiquid Assets** 2002  
(with A. Abdulali)  
*Risk Magazine, June 2002, Vol. 15, No. 6, pg. S25.*
- Migration For the Benefit of All** 2002  
*International Labour Review, Vol. 141 (2002), No. 3., pg. 225,*  
(In English with French and Spanish Translations available).  
Also appearing as *International Migration Papers, Vol. 40, United Nations ILO, Geneva.*
- Phantom Prices, Valuation and Liquidity: The Nuisance of Translucence** 2002  
(with A. Abdulali, and L. Rahl)  
Chapter Eight in *A Guide to Fund of Hedge Funds Management and Investment*, pg. 48, Leslie Rahl, Ed.,  
The Alternative Investment Management Association, London, 2002.
- Competition and Careers in Biosciences** 2001  
(with R. Freeman, E. Marincola, J. Rosenbaum, and F. Solomon)  
*Science, 14 December 2001, Vol. 294, pg. 2293.*

**Careers and Rewards in Bio Sciences:** 2001  
**the Disconnect Between Scientific Progress and Career Progression**  
(with R. Freeman, E. Marincola, J. Rosenbaum, and F. Solomon)  
*ASCB, August 2001.* Available from [http://www.ascb.org/newsroom/Careers\\_and\\_Rewards.pdf](http://www.ascb.org/newsroom/Careers_and_Rewards.pdf).

**Tracking Changes in Bilateral Trading Patterns in the Absence of PPP** 2001  
*Harvard Pre-print.* Available by request from the author.

**On Problems In The Theory of Intertemporal Economics** 2000  
*Harvard Pre-print.* Available by request from the author.

### **COLLOQUIA, TALKS, AND ADDRESSES**

Listed on Attached Sheet in Reverse Chronological Order

**CV ATTACHMENT:****SELECTED COLLOQUIA, TALKS, AND ADDRESSES**

- Performance Measurement, Risk Management  
and Attribution for Hedge Funds 2003 (Conference)** *October 7, 2003*  
The Royal Garden Hotel, London, United Kingdom  
Invited Presentation: *“Examining Valuations for Hedge Funds”*
- Hedge Fund Analytics 2003 (Conference)** *July 23, 2003*  
Roosevelt Hotel Convention Facilities, New York, NY  
Invited Presentation: *“Phantom Prices for Illiquid Assets and the Gaming of Risk Adjusted Returns”*
- National Academy of Sciences /  
Government University Industry Research Roundtable** *June 3, 2003*  
National Academy of Sciences, Washington, DC  
Invited Presentation: *“A Cry for ‘Help’: Research Universities and Shortages of US Trainees in Science and Engineering”*
- National Academy of Sciences /  
COSEPUP** *May 23, 2003*  
National Academy of Sciences, Washington, DC  
Invited Presentation: *“Exactly Backwards: Scientific Manpower Theory in the 1980’s, 90’s and Beyond”*
- MIT ‘View of the Markets’ Lecture Series** *December 10, 2001*  
J.P. Morgan, New York, NY (Joint work presented by A. Abdulali)  
Invited Presentation: *“Spot Prices in Hedge Fund Valuation: Fact or Fiction? Risk or Reward?”*
- United Nations / ILO** *June 21, 2001*  
ILO, MIGRANT Division, Geneva, Switzerland  
Invited Presentation: *“Migration for the Benefit of All: A Coasian Approach”*
- Nation Bureau for Economic Research / Sloan Foundation:  
Conference on Policy and Data Issues of the Scientific Workforce** *March 23, 2001*  
American Association for the Advancement of Science, Washington, DC  
Invited Presentation: *“Training and Pseudo-Training Models of Academic Labor Markets”*
- American Society for Cell Biology** *December 11, 2000*  
Annual National Conference, Moscone Convention Center, San Francisco, CA  
Invited Presentation: *“Training and Pseudo-Training Models of Academic Labor Markets”*
- Alfred P. Sloan Foundation** *October 2, 2000*  
Alfred P. Sloan Foundation Seminar, New York, NY  
Invited Presentation: *“The Unreasonable Effectiveness of Mathematics in the Social Sciences”*
- National Academy of Sciences** *June 19, 2000*  
Advisory Committee Meeting of the Office of Scientific and Engineering Personnel, NAS-Woods Hole, MA  
Invited Presentation: *“Mutualism and Market Models for the Role of Advanced Training in the Sciences”*

**Harvard University / Trade Union Program** *February 29, 2000*  
Harvard University Trade Union Program: Economic Issues Seminar Series, Cambridge, MA  
Invited Presentation: *"Labor Law: Special Exemptions From Uniform Standards"*

**Association for Public Policy Analysis and Management** *November 5, 1999*  
APPAM Research Conference, Washington, DC  
Invited Presentation: *"Policy Implications of the Immigration of Highly Skilled Manpower"*

**Council of Engineers and Scientists Organizations** *September 23-24, 1999*  
National Executive Meeting, Washington, DC  
Invited Presentation: *"Keeping Scientific Training Healthy: History, Imperatives, and Pitfalls"*

**Georgetown Univ. / Institute for the Study of International Migration** *May 21-22, 1999*  
Transatlantic Workshop on High Skilled Migration, Washington, DC  
Invited Presentation: *"Are our policies designed to optimize value or excellence?"*

**Harvard University / Trade Union Program** *March 2, 1999*  
Harvard University Trade Union Program: Economic Issues Seminar Series, Cambridge, MA  
Invited Presentation: *"Structural Barriers to Reform in the Training and Production of Scientist and Engineers"*

**Harvard University / Trade Union Program** *February 9, 1999*  
Harvard University Trade Union Program: Economic Issues Seminar Series, Cambridge, MA  
Invited Presentation: *"Labor Law: Special Exemptions From Uniform Standards"*

**Georgetown Univ. / Institute for the Study of International Migration** *October 16, 1998*  
Conference on Immigration Statistics for Scientists and Engineers, Georgetown University, Washington, DC  
Invited Presentation: *"Furthering the National Interest: Data on Immigrant Skills"*

**American Association for the Advancement of Science /  
Commission on Professionals in Science and Technology** *October 15, 1998*  
American Institute of Physics, College Park, MD  
Invited Presentation: *"How to Rethink Scientific Manpower Theory"*

**Institute of Electronic and Electrical Engineers** *July 18, 1998*  
IEEE-USA, Washington, DC  
Invited Presentation: *"The Theory and History of Labor Shortage Claims in the Labor Market for Scientists and Engineers"*

**National Academy of Sciences** *March 19, 1998*  
National Academy of Sciences: Conference on Improving Models of Forecasting Demand and Supply of Doctoral Scientists and Engineers, Washington, DC.  
Invited Presentation: *"Explaining 40 years of 'Shortages' of Scientists and Engineers from Sputnik to the Present in Light of New Evidence"*

**American Immigration Lawyers Association** *October 31, 1997*  
Session on Advanced Immigration Issues, St. Petersburg, FL  
Invited Address: *"Was U.S. High-Skilled Immigration Policy Designed to Depress Wages?: Old Thoughts, New Discoveries"*

**University of Massachusetts**

*October 10, 1997*

Department of Mathematics, Dartmouth, MA

Colloquium Speaker: *"Applications of Differential Geometry to Economic Theory and Public Policy"*

**Haverford and Bryn-Mawr Colleges**

*September 29, 1997*

Departments of Mathematics Joint Colloquium, Haverford, PA

Colloquium Speaker: *"A Gauge Theoretic Solution to the 'Index Number Problem' in Mathematical Economics"*

**Dartmouth College**

*September 25, 1997*

Department of Mathematics, Hanover NH

Colloquium Speaker: *"How Differential Geometry Could Save the Government 40 Billion Dollars a Year"*

**Boston University / Institute for Economic Development**

*May 21, 1997*

Sloan Conference on Migration of Scientists and Engineers, Boston University, Boston, MA

Invited Address: *"Issues of Legislation and Merit in Scientific Labor Markets"*

**University of Illinois at Urbana-Champaign**

*November 19, 1996*

Mathematics in Science and Society Colloquium, Urbana, IL

Invited Colloquium: *"Waiter, there's a gauge theory in my economy or The Practical Side of 'Pure Mathematics': How Differential Geometry Could Save the Government 40 Billion Dollars a Year and Reduce the Deficit by 23 percent Over 7 Years"*

**American Mathematical Society**

*April 14, 1996*

Northeast Regional Session on Gauge Theory, New York, NY

Invited Speaker: *"A Gauge Theoretic Solution to The Index Number Problem in Mathematical Economics"*

**MIT / Harvard University**

*April 11, 1995*

Special Joint Mathematical Physics Seminar, Cambridge, MA

Speaker: *"A Program for Geometric Unification"*