

Professional Preparation

Post-Doctorate, Stanford University (California), 1989-90
Ph.D. in Mathematics, Syracuse University (New York), 1989
B.A. in Mathematics, University of Haifa (Israel), 1984

Appointments

1997-present, Tenured Associate Professor, University of Alabama at Birmingham
1997-1998, Visitor, Technion - Israel Institute of Technology, Haifa, Israel
1992 (Fall), Visitor, Institute for Advanced Study, Princeton, New Jersey
1991-1997, Assistant Professor, University of Alabama at Birmingham
1990-1991, Visiting Member, Courant Institute of Mathematical Sciences, N.Y.U.
1989-1990, Visiting Assistant Professor, Stanford University
1988-89, Adjunct Lecturer, The Polytechnic University, Brooklyn, New York

Selected Publications

1. G. WEINSTEIN, *Minimal Surfaces with a Free Elastic Boundary*, in preparation.
2. A. CATTE, J. C. PATTERSON, G. WEINSTEIN, Z. SU, L. LI, J. CHEN, M. K. JONES, M. P. ALISTE, S. C. HARVEY AND J. P. SEGREST, *Novel Minimal Surface Conformations of Nascent High Density Lipoproteins through Molecular Dynamics*, to appear in Biophysical Journal.
3. G. WEINSTEIN AND S. YAMADA, *On a Penrose Inequality with Charge*, Comm. Math. Phys. **257** (2005) No. 3, 703-723.
4. B. SMITH AND G. WEINSTEIN, *Quasiconvex foliations and asymptotically flat metrics of non-negative scalar curvature*, Comm. Anal. Geom. **12** (2004) No. 3, 511-551.
5. B. SMITH AND G. WEINSTEIN, *On the connectedness of the space of initial data for the Einstein equation*, Electron. Res. Announc. Amer. Math. Soc. **6** (2000), 52-63.
6. Y. LI AND G. WEINSTEIN, *A priori bounds for co-dimension one isometric embeddings*, Amer. J. Math. **121** (1999), no. 5, 945-965.
7. R. WEIKARD AND G. WEINSTEIN, *Differential equations and mathematical physics; Proceedings of the 8th International Conference held at the University of Alabama, Birmingham, AL, March 16-20, 1999*, AMS/IP Studies in Advanced Mathematics **16**, International Press, Cambridge, MA, 2000, xxviii+461 pp.
8. G. WEINSTEIN, *Harmonic maps with prescribed singularities into Hadamard manifolds*, Math. Res. Letters **3** (1996) no. 6, 835-844.
9. G. WEINSTEIN, *On the Dirichlet Problem for Harmonic Maps with Prescribed Singularities*, Duke Math. J. **77** (1995), no. 1, 135-165.
10. G. WEINSTEIN, *On Rotating Black Holes in Equilibrium in General Relativity*, Comm. Pure Appl. Math. **43** (1990), 903-948.

Students

Dr. Brian Smith, Ph.D. Summer 2001
Mentor of MS and BA students: Mitch Wyatt, Nathan Welch, etc.

Selected Grants and Awards

2005 Jere P. Segrest (PI) et al., Gilbert Weinstein (co-PI), UAB Dept. of Medicine
2004-2007, US National Science Foundation DMS 0443155, PI (Conference Grant)
2002-2005 US National Science Foundation DMS 0205545, PI (Research Grant)
1997-2000 US National Science Foundation DMS 9704760, PI (Research Grant)
1994-1996 US National Science Foundation DMS 9404523, PI (Research Grant)
1992, 1994, 1995, 1996 EPSCoR Awards
1992, 1994 UAB (Intramural) Faculty Research Grant, PI

Selected Presentations

GR17, Dublin, Ireland, July 2004.
Robert Brooks Memorial Conference, Technion, Haifa, January 2004
Penrose Inequalities, Erwin Schrödinger Institute, Vienna, July 2003
50 years of the Cauchy problem in GR, Cargèse, Corsica, France, Summer 2002
Workshop on General Relativity, Stanford University and AIM, May 2002
Institute for Advanced Study - Seoul National University, July 2000
Morningside Institute, Chinese Academy of Sciences, Beijing, August 2000
Séminaire de Mathématiques, University of Tours, May 1998
Workshop on Geometric Methods in Analysis, Technion, Haifa, December 1997
Mathematical Aspects of Theories of Gravitation, Banach Center, Warsaw, March 1996
Mathematics Seminar, Lund University, March 1996.
Mathematics Colloquium, University of Toronto, April 1995
Conference on Mathematical Relativity, Erwin Schrödinger Institute, Vienna, July 1994
Mean and Scalar Curvature Seminar, Institute for Advanced Study, Fall 1992
Analysis Seminar, Courant Institute of Mathematical Sciences, 1991
PDE and Geometry Seminar, Stanford University, 1990
Analysis Seminar, Princeton University, 1989

Selected Service Activities

iLrn testing and implementation at UAB, 2005
National Science Foundation panel member (2002) and reviewer
Paper refereeing: Comm. Math. Phys., Adv. Math., etc.
Graduate Program Director, 2001-2002
Created and organized NSF funded *Southeast Geometry Seminar* (since 2001)
Co-organized *1999 ICDEMP*, Birmingham, Alabama, March 16-20, 1999
Organized Nobel Laureate Lecture, Economics Nobel Laureate John F. Nash, 1999
Web Master for the Mathematics Department, 1996-2000