

TEACHING EXPERIENCE

- Spring, 2004 *Introduction to Microlocal Analysis (157)*, lectures, MIT.
Fall, 2003 *Introduction to Partial Differential Equations (152)*, lectures, MIT.
Fall, 2002 *Introduction to Partial Differential Equations (152)* and *Topics in Differential Equations (158)*, lectures, MIT.
Spring, 2002 *Analysis I (100A)* and *Introduction to Microlocal Analysis (157)*, lectures, MIT.
Fall, 2001 *Introduction to Partial Differential Equations (152)*, lectures, MIT.
Fall, 2000 *Introduction to Partial Differential Equations (152)*, lectures, and *Calculus (18.01A/18.02A)*, recitation, MIT.
Spring 2000 *Mathematical methods in the physical sciences (121B)* and *Introduction to Partial Differential Equations (126)*, lectures, UC Berkeley.
Fall, 1999 *Mathematical methods in the physical sciences (121A)*, lectures, UC Berkeley.
Spring, 1999 *Honors Introduction to Analysis (H104)* and *Introduction to Partial Differential Equations (126)*, lectures, UC Berkeley.
Fall, 1998 *Introduction to applied mathematics (119)*, lectures, UC Berkeley.
Spring, 1998 *Ordinary and partial differential equations (204B)*, lectures, UC Berkeley.
Fall, 1997 *Introduction to Analysis (104)* and *Mathematical methods in the physical sciences (121B)*, lectures, UC Berkeley.
Spring, 1996 *Differential Equations (18.03)*, recitation, M.I.T.
Fall, 1995 *Calculus (18.01A/18.02A)*, recitation, M.I.T.

FELLOWSHIPS, GRANTS AND PRIZES

- 2004-2006 *Clay Research Fellow.*
2002-2007 *NSF grant DMS-02-01092*, on “Many-body scattering and symmetric spaces”.
2002-2004 *Alfred P. Sloan Research Fellowship.*
1997 *Jennifer C. Johnson prize* for the best research paper written by a graduate student at the Department of Mathematics of MIT.
1996-1997 *Alfred P. Sloan Doctoral Dissertation Fellowship.*
1993 *The Deans’ Award for Academic Achievement*, Stanford University.
1992 *David S. Levine Award for an Outstanding Academic Record*, Physics Department, Stanford University.
1991 *Member, Fourth Ranked team* of Stanford University for the W. L. Putnam Competition.
1990 *Honorable Mention*, W. L. Putnam Mathematics Competition.
1990 *President’s Award for Academic Excellence in the Freshman Year*, Stanford University.
1989 *Honorable Mention*, W. L. Putnam Mathematics Competition.

RECENT INVITED LECTURES

- Perspectives in Inverse Problems meeting in Helsinki, Finland, May 31-June 5, 2004:
“Geometric optics and the wave equation on manifolds with corners”.

Analysis seminar, Stanford University, February 17, 2004:
 “Geometric optics and the wave equation on manifolds with corners”.

Basic Notions seminar, Northeastern University, November 13, 2003:
 “Propagation of singularities”.

Colloquium, University of North Carolina, Chapel Hill, October 30, 2003:
 “Scattering theory on symmetric spaces and for N -body Hamiltonians”.

Colloquium, Northwestern University, October 27, 2003:
 “Scattering theory on symmetric spaces and for N -body Hamiltonians”.

Colloquium, University of Pennsylvania, October 22, 2003:
 “Scattering theory on symmetric spaces and for N -body Hamiltonians”.

Analysis seminar, University of Pennsylvania October 21, 2003:
 “Radial points of Hamilton vector fields and scattering theory”.

AMS-RSME joint meeting in Sevilla, Spain, June 18-21, 2003, special session talk:
 “Inverse problems in N -body scattering”.

Mathematical Semi-Classical Analysis, MSRI, May 5-9, 2003:
 “Scattering theory on symmetric spaces and for N -body Hamiltonians”.

PDE seminar, Northwestern University, January 30, 2003:
 “Scattering theory for symbolic potentials of degree zero”.

Analysis seminar, University of Wisconsin, Madison, January 28, 2003:
 “Symmetric spaces and N -body scattering”.

PDE seminar, University of Washington, Seattle, January 22, 2003:
 “Exponential decay of eigenfunctions in many-body type scattering
 with second order perturbations”

Colloquium, University of Michigan, Ann Arbor, January 9, 2003:
 “Symmetric spaces and N -body scattering”.

Canadian Mathematical Society Winter Meeting, Ottawa, December 8-10, 2002:
 “Many-body scattering and symmetric spaces”.

International Workshop on Spectra of Differential Operators and Inverse Problems,
 RIMS, Kyoto University, Japan, October 30, 2002:
 “Inverse problems in many-body scattering”.

AMS Sectional meeting, Boston, October 6, 2002:
 “Many-body scattering and symmetric spaces”.

AMS-UMI joint meeting in Pisa, Italy, June 12-16, 2002, special session talks:
 “Geometry and analysis in many-body scattering” and
 “Inverse problems in many-body scattering”.

Séminaire Tournant Exceptionnel, IHP, Paris, June 10-11, 2002:
 “Exponential decay of eigenfunctions in many-body scattering
 with second order perturbations”.

Université de Nantes, May 28-31, 2002:
 Minicourse on many-body scattering and symmetric spaces.

Analysis and PDE seminar, SUNY Stony Brook, January 28, 2002:
 “Geometry and analysis in many-body scattering”.

Colloquium, University of Toronto, January 9, 2002:
 “Geometry and analysis in many-body scattering”.

Analysis seminar, McGill University, October 19, 2001:
 “The spectral shift function in many-body scattering”.

CMA National Research Symposium on Spectral and Scattering Theory, ANU,
 Canberra, Australia, August 8-9, 2001:
 “The spectral shift function in many-body scattering” and
 “Positive comutator estimates in microlocal analysis”.

Seminar, Mathematical Sciences Research Institute, Berkeley, CA, May 10, 2001:
 “Scattering theory for symbolic potentials of order zero”.

Seminar, Ecole Polytechnique, Paris, February 27, 2001:
 “Scattering theory for symbolic potentials of order zero.”

PDE Seminar, Université de Nantes, France, February 23, 2001:
 “Resolvents and Martin boundaries on products of asymptotically
 hyperbolic spaces”.

Seminar, Mathematical Sciences Research Institute, Berkeley, CA, January 26, 2001:
 “Scattering theory on asymptotically Euclidean spaces
 for non-decaying potentials”.

PDE Seminar, University of California, Berkeley, January 19, 2001:
 “Resolvents and Martin boundaries on products of asymptotically
 hyperbolic spaces”.

PDE Seminar, University of Washington, Seattle, January 10, 2001:
 “Resolvents and Martin boundaries on products of asymptotically
 hyperbolic spaces”.

Meeting on Geometric Analysis and Singular Spaces, Oberwolfach, Germany, June 27, 2000:
 “Propagation of singularities in many-body scattering in the presence
 of bound states”.

PDE Seminar, University of Washington, Seattle, March 29, 2000:
 “Semiclassical estimates in asymptotically Euclidean scattering”.

PDE Seminar, Université Paris-Nord, January 7, 2000:
 “Semiclassical estimates in asymptotically Euclidean scattering”.

Mathematical physics seminar, IHES, France, January 5, 2000:
 “Propagation of singularities in many-body scattering”.

AMS Regional Meeting, Salt Lake City, September 26, 1999:
 “Propagation of singularities in many-body scattering in the presence
 of bound states”.

Colloque EDP, St. Jean-de-Monts, France, June 2, 1999:
 “Propagation of singularities in many-body scattering in the presence
 of bound states”.

PDE Seminar, Université Paris-Sud, Orsay, May 25, 1999:
 “Geometric scattering theory for long-range potentials and metrics”.

Analysis & PDE Seminar, University of Kentucky, March 23, 1999:
 “Propagation of singularities in many-body scattering and
 the structure of the scattering matrices”.