CURRICULUM VITAE

Gunther Uhlmann

Date of Birth: February 9, 1952, Chile.

Education: Licenciado en Matemáticas, Univ. de Chile, Santiago, Chile 1973.
Ph.D., M.I.T., September 1976.

Professional Experience:

- University of California Irvine Excellence in Teaching Chair in Mathematics, 2010-present.
- Walker Family Endowed Professor in Mathematics, University of Washington, 2006–present.
- Professor of Mathematics, University of Washington, 1987–present.
- Adjunct Professor Applied Mathematics, University of Washington, 2008-present.
- Associate Professor, University of Washington, 1984–1987.
- Assistant Professor, M.I.T., 1980–1985.
- Instructor, M.I.T., 1978–1980.
- Courant Instructor, Courant Institute, NYU, 1977–1978.
- Research Fellow, Harvard University, Winter, Spring 1977.
- Research Associate, M.I.T., Fall 1976.

Awards, Honors and Fellowships:

- Kleinman Prize, Society of Industrial and Applied Mathematics, 2011.
- Bocher Prize, American Mathematical Society, 2011.
- Einstein Public Lecture, AMS, March 2012.
- Rothschild Distinguished Visiting Fellow, Cambridge University and Isaac Newton Institute for Mathematical Sciences, Cambridge, England, Fall 2011.

[• Rothschild Lecture, Cambridge University and Isaac Newton Institute for Mathematical Sciences, Cambridge, England, September 2011.

- Institute for Advanced Study Distinguished Lecture, Hong Kong University of Science and Technology, August 2011.
- The 10th van Winter Memorial Lecture, University of Kentucky, February, 2011.
- Invited Address, First Joing Meeting AMS-SOMACHI, Pucón, Chile, Dec. 2010.
- Fellow of Society of Industrial and Applied Mathematics, elected 2010.
- Chancellor Professor, University of California, Berkeley, Fall 2010.
- Clay Senior Scholar at MSRI, Fall 2010.

- Invited Lecturer, SIAM Annual Meeting, Pittsburgh, July, 2010.
- Plenary Speaker Summer Meeting Canadian Mathematical Society, June 2010.
- Arne Magnus Lectures, Colorado State University, April, 2010.
- Fellow American Academy of Arts and Sciences, elected 2009.
- Emil Grosswald Lectures, Temple, April 2009.
- Eisenbud Professor at MSRI, Fall 2008 (could not serve due to personal problems).
- Zygmund-Calderón Lectures, University of Chicago, April, 2008.
- Plenary Lecturer, International Congress of Industrial and Applied Mathematics 2007, Zurich, Switzerland, July, 2007.
- Plenary Lecture, Annual Meeting, MITACS, Calgary, Canada, May, 2005.
- Invited hour address, Annual Meeting American Math Society, Atlanta, January, 2005.
- Institute of Scientific Information (ISI) Highly Cited Researcher, 2004-present.
- Fellow, Institute of Physics, elected 2004.
- PIMS Distinguished Chair, University of British Columbia, November 2002.
- John Simon Guggenheim Fellowship, 2001-2002.
- Corresponding Member of the Chilean Academy of Sciences, elected 2001.
- International Congress of Mathematicians, invited speaker, Berlin, 1998.
- Conference Board of Mathematical Sciences (CBMS), principal speaker, 1995.
- Annual Prize of Mathematics of Venezuela, 1982.
- Fulbright Travel Fellowship, 1973.
- Fellowship from Ford Foundation through Technical State University, Chile, to pursue doctoral studies at M.I.T., 1973–1976.

Other Special Lectures

- Boeing Lecture, Wichita State University, April 1990.
- Invited address, Portland meeting American Mathematical Society, June 1991.
- Annual Memorial Lecture José Rubio de Francia, Universidad Autónoma de Madrid, Spain, June 1997.
- Lecture in Distinguished lecture series, The Institute of Applied Mathematics, University of British Columbia, Canada, October 1997.
- Plenary talk, invited by Korean Mathematical Society, at the conference "Mathematics in the New Millennium", October, 2001.
- PIMS Distinguished Chair Lectures, November 2002 (3 lectures).
- Frontiers in Math Lectures, Texas A&M, March, 2004 (3 lectures).
- Richard Di Prima Annual Lecture, Rensselaer Polytechnic Institute, April, 2004.
- Lecture in Distinguished Lecturer Series, University of Central Florida, April, 2006.

- 10th Anniversary Celebration of Instituto de Matemáticas, Universidad Nacional Autónoma de México, Cuernavaca, Mexico, May, 2006.
- Plenary Lecture in Lars Ahlfors Centennial Conference Helsinki, Finland, August, 2007.
- Current Events Bulletin, Annual Meeting AMS, San Diego, January, 2008.
- Distinguished Lecture Series, Graduate School of Applied Sciences Naval Postgraduate School, Monterey, California, July 2010.
- MSRI MUSEION Lecture, October, 2010.
- Physical Sciences Breakfast Lecture Series, University of California, Irvine, January, 2011.
- Public Lecture, The Science Behind Harry Potter's Cloak, Fí́sica Para las Tardes de Invierno, Pontificia Universidad Católica de Chile, September, 2011.
- Town meeting on Inverse Problems, University College London, United Kingdom, September 2011.

Editorial Boards

- Member of Editorial Board, SIAM Journal Math. Anal., September 1995-December 2000.
- Member of Editorial Board, Journal of Inverse and Ill-Posed Problems, 1997-present.
- Associate member of Editorial Board of Cubo, 1999-present.
- Member of Editorial Board of Inverse Problems, 2000-2010.
- Member of Editorial Board of Advances in Applied Math, 2002-present.
- Member of Editorial Board of Inverse Problems and Imaging, 2006-present.
- Member of Editorial Board of Analysis and PDE, 2007-present.
- Member of Editorial Board, Revista Matemática Iberoamericana, 2008-present.
- Member of Editorial Board, International Journal of Differential Equations, 2009-present.
- Member of Editorial Board of Journal of Spectral Theory, 2010-present.
- International Advisory Board, Inverse Problems, 2011-present.
- Advisory Board, Versita de Gruyter Book Publishing Program in Mathematics, 2011-present.
- Member of Editorial Board of Evolution Equations and Control Theory, 2011-present.

Grants:

- PI of NSF grant to support the ""International Conference on Inverse Problems and PDE Control" to be held at Sichuan University, Chengdu, China, July 30-August 3, 2012 ($30,000).
- PI of of NSF and DOE grant to support a Pan-American Advanced Studies Institute (PASI) in January, 2013 in Chile, on "Inverse Problems and PDE Control" ($100,000.)
- Co-PI of NSF Collaborative Mathematics and Geosciences (CMG), " Nonlinear Elastic-Wave Inverse Scattering and Tomography - from Cracks to Mantle Convection", 2010-2014 (UW part $229,950).
- PI of NSF Research Training Grant (RTG) on "Inverse Problems and Partial Differential Equations", 2009-2014 ($2,070,940).

- PI of NSF grant, 2008-2013 ($667,736).
- Co-PI of NSF Travel Grant for First Pacific Rim Mathematical Association (PRIMA) first meeting in Sydney, Australia, July, 2009 .
- Co-PI of NSF Collaborative Mathematics and Geosciences (CMG), "Multi-Scale (Wave Equation) Tomographic Imaging with USArray Waveform Data, 2007-2011.
- Co-PI of NSF Focused Research Grant (FRG) on "Inverse Problems in Radiative Transfer", 2006-2010.
- PI of U.S. team of of Civilian Research & Development Foundation (CRDF) grant on "Geometric Rigidity, Inverse Problems and Integral Geometry", 2007-2009.
- PI of NSF grant to support the conference "Applied Inverse Problems 2007", held in Vancouver, Canada, June 25-29, 2007.
- Co-PI of Period of Concentration of PIMS Collaborative Research Group (CRG) on Inverse Problems, 2005-2007.
- Co-PI of Collaborative Mathematics and Geosciences (CMG) program 2003-2007.
- PI, International collaboration Novosibirsk-Seattle, 2003-2007.
- Co-PI (1977-1980) and PI (1980-2013) of NSF summer grants.
- Ky and Yu-Fen Fan Fund Travel Grant to support visit of Jin Cheng (Fudan University, China) for the month of February 2004.
- PI of NSF grant to support the workshop "Inverse Problems and Medical Imaging", 2003.
- PI of NSF and DOE grant to support a Pan-American Advanced Studies Institute (PASI) in Santiago, Chile, on "Partial Differential Equations, Inverse Problems and Non-Linear Analysis", 2003.
- PI of NSF and DOE grant to support a "Pan-American Advanced Studies Institute" (PASI) at MSRI, Berkeley, on Inverse Problems, 2001.
- Royalty Research Fund (RRF), "Electrical Impedance Tomography", one month support in summer 1998.
- Co- PI of grant from ONR in Accelerated Research Initiative on "Electromagnetic Properties of Sea Ice", 1993-1997.

Visiting Positions

- Universidad Federal de Pernambuco, Brazil, August 1979 (one month.)
- Universidad Nacional Autónoma de México, Mexico, August 1981 (two weeks.)
- Instituto Venezolano de Investigaciones Científicas, Venezuela,January 1982 (two weeks).
- Mathematical Sciences Research Institute (MSRI), Berkeley, 1982-1983 (participant for one year in program on Non-linear Partial Differential Equations and Geometry).
- Universidad de Chile, January, 1984 (two weeks).
- MSRI, October 1988 (participant for one month in the Symplectic Geometry program).
- MSRI, March 1991 (participant for two weeks in the Partial Differential Equations program).

- Universidad Autónoma de Madrid, Madrid, Spain, June-July 1997 (one month).
- Fields Institute, Toronto Canada, September-October 1997 (participant for two weeks in the Microlocal Analysis program).
- Professeur Invitée, Université de Versailles, France, June-July 2000 (one month).
- Erwin Schrödinger Institute, Vienna, Austria, March 2001 (participant for two weeks in Scattering Theory Programme).
- MSRI, April-May 2001 (participant for three weeks in Spectral Invariants program).
- Chair of organizing Committee of Inverse problems and Applications program at MSRI, August-December, 2001.
- MIT, Berkeley, Cambridge, March-April, 2002 (three weeks).
- University of Chicago, September-October, 2002 (one month).
- École Normale Supérieure, France, March, 2010 (two weeks).
- Chair of organizing committee of Inverse Problems and Applications program at MSRI, Berkeley, August-December 2010.
- Professeur Invitée, École Normale Supérieure, Paris, France, March-April, 2011.
- Universidad Autónoma de Madrid, participant for two weeks in Special Trimester on Inverse Problems and Applications and Scattering Theory (weeks).
- Issac Newton Institute, Cambridge, England, July 23-October 2, 2011.
- Ordway Visitor, University of Minnesota, November 2011 (two weeks).

Minicourses :

- "Well-posedness of Cauchy problem for hyperbolic equations with double characteristics", Universidad Federal de Permambuco, Recife, Brazil, August 1979 (eight lectures).
- "Conical Refraction and Equations with Double Characteristics", IIMAS, Univ. Autónoma México, August 1981 (four lectures).
- "Scattering by a Potential", IVIC, Venezuela, January 1982 (four lectures).
- "Introduction to Microlocal Analysis", Universidad de Chile, January 1984 (four lectures).
- "Microlocal Analysis and Scattering theory", VIII Escuela Latinoamericana de Matemáticas on Partial Differential Equations Río de Janeiro, Brazil, July 1986 (five lectures).
- "Inverse Boundary Value Problems with Applications to Inverse scattering", École D'Été , Nantes, France, June 1991 (five lectures).
- "Nondestructive Evaluation and Inverse Problems", CBMS-NSF conference , June 1995, Principal Lecturer (10 talks).
- "The Dirichlet to Neumann Map and Inverse Problems", Summer Course in Cortona, Italy, July 1996 (17 lectures).

- "Inverse Problems in Anisotropic Media", Summer School on Partial Differential Equations with Applications in Mathematical Physics, Oulu, Finland, June 1997 (10 lectures).
- "Inverse Problems in Anisotropic Media", EuroSummerSchool on "New Analytic and Geometric Methods in Inverse Problems", Edinburgh, July 2000 (five lectures).
- "Microlocal Analysis and Inverse Problems", Mathematical Sciences Research Institute, Berkeley, August, 2001 (four lectures).
- "Electrical Impedance Tomography", Pan-American Advanced Studies Institute (PASI) on Inverse Problems, October-November, 2001 (three lectures).
- "Geometrical Optics and Inverse Problems", 3rd Summer School in Mathematical Analysis, Cuernavaca, Mexico, June 2002 (5 lectures).
- "The Dirichlet to Neumann Map and Inverse Problems", PIMS Distinguished Lectures, Vancouver, Canada, November 2002 (three lectures).
- "Inside-Out, Inverse Problems, Frontiers in Mathematics Lectures, Texas A&M, March 2004 (three lectures).
- "Electrical Impedance Tomography" Graduate Summer School on Inverse Problems, UW, August, 2005 (three lectures).
- "Travel Time Tomography", CIMPA School on Wave Propagation, Cuernavaca, Mexico, January 2006 (three lectures).
- Minicourse on "Applied Inverse Problems", Florence, Italy, May 2006 (5 lectures).
- "Invisibility", Taipei, Taiwan, March 2008 (3 lectures).
- "An Introduction to Calderón's Problem", Summer Graduate Workshop on Inverse Problems, MSRI, Berkeley, July 2009 (5 lectures).
- "The Calderón Problem with Partial Data", CIMPA School on Inverse Problems, Santiago Chile, January, 2010 (5 lectures).
- "The Radon Transform and the X-Ray Transform", Research Training Grant Summer School on Inverse problems and PDE, taught jointly with Peter Kuchment, UW, Seattle, June-July 2010 (14 lectures).
- "Inverse Problems", Workshop in special trimester on inverse problems, Universidad Autónoma de Madrid, Spain, June 2011 (4 lectures).
- "X-Ray Tomography and Inverse Transport", Research Training Grant Summer School on Inverse Problems in PDE, taught jointly with G. Bal and S. McDowall, UW, Seattle, June-July 2011 (14 lectures).
- "Photoacoustic and Thermoacoustic tomography", Introductory Workshop Isaac Newton Institute, July 2011 (4 lectures).

Invited Plenary Talks in Conferences since 2000.

- RCP264: Inverse Problems and Nonlinearity, Montpellier, France, June 2000.

- AMS-IMS-SIAM Summer Research Conference on "Radon transforms and tomography", Mount Holyoke, Massachusetts, June 2000.
- Recent Developments in the Wave Field and Diffuse Tomographic Inverse Problems, EuroConference, Edinburgh, August, 2000.
- Hyperbolic Equations and Scattering: A Conference in Honor of Gerard Friedlander, MIT, Cambridge, Mass., September, 2000.
- Workshop on Scattering Theory, Erwin Schrödinger International Institute on Mathematical Physics, March, 2001.
- Function Spaces, Differential Operators and Nonlinear Analysis, Teistungen, Germany, July, 2001.
- Geometric Methods in Inverse Problems and PDE Control, IMA, Minnesota, July 2001.
- Q-Math8, Mathematical Results in Quantum Mechanics, Taxco, Mexico, December 2001.
- Geometric Analysis in the 21st Century, a conference in honor of Richard B. Melrose, MIT, Cambridge, Massachusetts, March 2002.
- INdAM workshop on "Inverse Problems and Applications", Cortona, Italy, June 2002.
- First Mummy Range Workshop on Electrical Impedance Tomography, Pingree Park, Colorado, August 2002.
- MaPhySto Workshop on Inverse Problems, Aaalborg, Denmark, September 2002.
- International Workshop on Spectra of Differential Operators and Inverse Problems, RIMS, Kyoto, Japan, October, 2002.
- Applied Inverse Problems: Theoretical and Computational Aspects, Lake Arrowhead, California, May 2003.
- Geophysical Inversion, Calgary, Canada, July 2003.
- Symposium on Inverse Problems, Fields Institute, Toronto, Canada, October 2003 (two lectures).
- Interdisciplinary Inverse Problems: Opening Conference for IPRPI, RPI, April 2004.
- Southern California PDE and Analysis Seminar (SCAPDE 2004), San Diego, CA, April, 2004.
- Perspectives in Inverse Problems, Finland, Helsinki, June 2004.
- First LNCC (Laboratório Nacional de Computação Científico) conference on Computational Modelling, Petropolis, Rio de Janeiro, Brazil, August 2004.
- 9th international conference on Differential Geometry and Its Applications, Czeck Republic, Prague, September 2004.
- Pan American Advanced Studies Institute (PASI) on Partial Differential Equations and Non-Linear Analysis, Santiago, Chile, January 2005.
- The 2005 UAB International Conference on Mathematical Physics and Differential Equations, Birmingham, Alabama, March 2005.
- Midwest PDE seminar, Purdue University, April 2005.
- Scattering theory and Singular Spaces, Northwestern, May 2005.

- Waves 2005, Brown University, Providence, Rhode Island, June 2005
- Inverse Problems, Multi-scale Analysis and Homogenization, Seoul Korea, June 2005.
- New Directions in Partial Differential Equations, BIRS, Canada, July, 2005.
- Algebraic Analysis of Differential Equations (in honor of Prof. Takahiro Kawai on the occasion of his sixtieth birthday) RIMS, Kyoto, Japan, July 2005.
- Imaging from Wave Propagation, IMA, Minneapolis, Minnesota, October, 2005.
- Seminar on Inverse Problems and Applications in honor of Alberto P. Calderón, Rio de Janeiro, Brazil, March 2006.
- Inverse Problems in Applied Sciences- Towards Breakthrough, Sapporo, Japan, July 2006.
- Analysis and Probability in Quantum Physics, PASI 2006, Santiago, Chile, August, 2006.
- Hyperbolic Equations and Scattering, meeting in honor of V. Petkov, Bordeaux, France, May, 2007.
- Analyse des équations aux dérivées partielles, Évian-les-Bains, France, June 2007.
- Geometric Aspects of Analysis and Mechanics, a conference in honor of Hans Duistermaat 65th birthday, Utrecht, The Netherlands, August 2007
- Random Media Opening Workshop, SAMSI, North Carolina, September, 2007.
- 7th Symposium of Chilean Mathematics, Punta de Tralca, Chile, November, 2007.
- International Conference on Applied Mathematics: Modeling, Analysis and Computation, Hong-Kong, June, 2008.
- Workshop on Imaging Microstructures, June, 2008, Paris, France.
- From Wave Propagation to K-Theory: A conference in the Honour of the 60th Birthday of Richard Melrose, Stanford University, October 2008.
- Mathematics Research Communities (MRC) Meeting on Inverse Problems, Snowbird, Utah, June 2009.
- 1st PRIMA Congress, Sydney, Australia, July, 2009.
- 7th ISAAC Congress, London, England, July, 2009.
- The Mathematics Institutes' Modern Math Workshop, Dallas, Texas, October, 2009.
- Workshop on Inverse Problems and Applications, Valparaíso, Chile, January, 2010.
- 17th Southern California Geometric Analysis Conference, Irvine, California, February, 2010.
- International Workshop on Inverse Problems, Hong Kong, April, 2010.
- International Conference on Inverse Problems, Wuhan, China, April 2010.
- 8th AIMS International Conference on Dynamical Systems, Differential Equations and Applications, Dresden, Germany, May, 2010.
- 3 Lectures on Inverse Problems, University of Helsinki, Finland, June 2010.
- 5th Pacific Rim Conference on Mathematics, Stanford, California, June 2010.
- Microlocal Analysis in Imaging, RPI, New York, August, 2010.
- Texas Geometry and Topology Conference, College Station, Texas, November, 2010.
- 2nd Interdisciplinary Workshop on Applied Mathematics, Hangzhou, China, December 2010.

- Geometric Analysis, CIRM, Luminy, France, Jan. 2011.
- Spectral and Scattering Theory and Related Topics, RIMS, Kyoto, Japan, Feb. 2011 (A conference in celebration of H. Isozaki's 60th birthday).
- Asymptotic properties of solutions to hyperbolic equations, Imperial College, London, April 2011.
- Colloque Ondes en Limite Semi-classique, Paris, April, 2011.
- Applied Inverse Problems, College Station, Texas, May, 2011.
- Workshop on Inverse Problems, Universidad Autónoma de Madrid, pain, June 2011.
- International Conference on Interdisciplinary and Applied Mathematics, Zhejiang University, Hangzhou China, June 2011.
- Mathematics of Medical Imaging, Toronto, Canada, June 2011.
- Recent Advances in Biomedical Imaging, Shanghai Jiao Tong University, Shanghai, China, August 2011.
- Analytic and Geometric Methods in Medical Imaging, Isaac Newton Institute, Cambridge, England, August, 2011.

Colloquium and Seminar Talks since 2000.

- Colloquium, University of Kentucky, April 2000.
- Seminar, University of Kentucky, April 2000.
- Seminar, IIMAS, UNAM, Mexico, May 2000 (two talks)
- Applied Mathematics Colloquium, Université de Bordeaux, June 2000.
- Seminar talk, École Polytechnique, France, July 2000.
- Colloquium, Seoul National University, October 2000.
- Colloquium, Northwestern University, November 2000.
- Current Problems in Mathematics, UW, February 2001.
- Seminar, Yale University, February, 2001.
- Seminar, Johns Hopkins University, March 2001.
- Colloquium, Purdue University, April 2001.
- Colloquium, Michigan State University, April 2001.
- Seminar, MSRI (Spectral Invariants program), May 2001.
- Seminar, Erwin Schrödinger Institute in Vienna, Austria, July, 2001 (Scattering theory Program).
- Colloquium, University of California, Berkeley, October 2001.
- Colloquium, Stanford University, November 2001.
- Colloquium, Rensselaer Polytechnical Institute, January 2002.
- Colloquium, MIT-Harvard-Brandeis-Northeastern Colloquium, April 2002.
- Colloquium, University of Chicago, May 2002.
- Seminar, University of Bologna, Italy, July 2002.
- Colloqium, University of Chicago, Illinois, September, 2002.

- Colloquium, University of Minnesota, October, 2002.
- Calderón-Zygmund seminar, University of Chicago, October, 2002.
- Colloqium, University of California, Irvine, May 2003.
- Seminar, Northwestern University, November, 2003.
- General Colloquium, IPAM, UCLA, December, 2003.
- Colloquium, Penn State, September, 2004.
- Seminar (Differential Geometry and Dynamics), Penn State, September 2004.
- Colloquium, University of California, Santa Barbara, November, 2004.
- Colloquium, Yale University, September, 2005.
- Great Ideas Series, University of Washington, April, 2005.
- Colloquium Stanford University, April, 2006.
- Seminar, École Polytechnique, France, June 2006.
- Colloquium, University of California, Berkeley, October, 2006.
- Colloquium, University of Wisconsin, Madison, October, 2006.
- Colloquium, Colorado State University, Fort Collins, November, 2006.
- Colloquium, Purdue University, November, 2006.
- Colloquium, UC Irvine, February, 2007.
- Seminar, University of Missouri, Columbia, March, 2007.
- Colloquium, Caltech, April, 2007.
- Seminar, Stanford University, October, 2007.
- Seminar, UBC, November, 2007.
- Colloquium, UBC, November, 2007.
- Seminar, MIT, December, 2007
- Colloquium, Applied Math UW, March, 2008.
- Colloquium, University of Southern California, October 2008.
- Colloquium, University of Toronto, November 2008.
- Seminar, University of Toronto, November 2008.
- Colloquium, Michigan State University, September, 2009.
- Colloquium, University of Wyoming, Lamarie, September, 2009.
- Seminar, Colorado State University, Fort Collins, September, 2009.
- Colloquium, Texas A&M, September 2009.
- Undergraduate seminar, Hanoi University of Science, Vietnam, September, 2009.
- Colloquium, Hanoi University of Science, Vietnam, September, 2009.
- Seminar, MIT, October, 2009.
- Colloquium, Purdue, November, 2009.
- Colloquium, Northwestern University, November, 2009.

- UW-PIMS Colloquium, University of Washington, November, 2009.
- Colloquium, Purdue, November, 2009.
- Colloquium, Michigan State, December, 2009.
- Seminar, Universidad Católica de Chile, January, 2010.
- Colloquium, University of California, Irvine, March, 2010.
- Seminar, École Normale Supérieure, Paris, March, 2010.
- Colloquium, University of California, Berkeley, September 2010.
- Colloquium, Ohio State University, October, 2010.
- Seminar, University of British Columbia, Vancouver, November, 2010.
- Colloquium, University of British Columbia, Vancouver, November, 2010.
- Colloquium, Applied and Computational Mathematics, Caltech, Jan. 2011.
- Seminar, University of Kentucky, Feb. 2011.
- Colloquium, University of Utah, March 2011.
- Colloquium, University of Bordeaux, France, March 2011.
- Seminar, Laboratoire Jacques-Louis Lions, Paris, France, April 2011.
- Colloqium, University of Bourgogne, France, April, 2011.
- Applied Math Colloquium, Columbia University, New York, May, 2011.
- Colloquium, Universidad Autónoma de Madrid, Spain, May 2011.
- Seminar, Hong Kong University of Science and Technology, Hong Kong, August, 2011.
- Seminar, Centro de Modelamiento Matemático (CMM), Universidad de Chile, September 2011.

[• Colloquium, University of Helsinki, October 2011.

- Seminar, University of Helsinki, October 2011.
- Colloquium, Columbia University, November 2011.
- Seminar, Department of Electrical and Computer Engineering, NUS, Singapore, December 2011.
- Colloquium, NUS, Singapore, December 2011.
- Seminar, Department of Physics NTU, Singapore, December 2011.
- Colloquium, Fujian Normal University, Fuzhou, China, December 2011.

Other Professional Experience:

- Simons Foundation Review Advisory Panel, 2011-present.
- Nominating Committee American Mathematical Society, 2011-present.
- Member Selection Committee of SIAM's John Von Neumann Lecture, 2010-present.
- Member of the Organizing Committee of Inverse Problems program at Mittag-Leffler Institute, Spring 2013.
- Member of Organizing Committee on Fields Institute Program on "Inverse Problems and Imaging", January-August, 2012.

- Member of Scientific Committee of Inverse Problems Program at the Newton Institute, Cambridge, England, Fall 2011.
- President, Inverse Problems International Association (IPIA), July 2010-present.
- 10 year review of "Centro Modelamiento Matematico (CMM)", Chile for CONICYT, Chile, 2011.
- Advisory Board Member of ICIP2010 held in Hong Kong, December 2010.
- Member of Scientific Committee, Applied Inverse Problems (AIP) Conference, College Station, Texas, May 2011.
- Member Selection Committee CMR-Fields-PIMS Prize, 2009-2010, chair 2010.
- PIMS site director at University of Washington, 2003-2010.
- Member of Scientific Advisory Board Banff International Research Station (BIRS), 2008-2011.
- Member of committee to review the graduate program at Case Western Reserve, 2009.
- Scientific Committee of meeting on Inverse problems in PDE, CIRM, Luminy, 2009.
- Advisory Board, conference on Integral Geometry and Tomography, Stockholm, Sweden, August 2008
- International Advisory Committee of Functional Analysis, Differential Operators and Nonlinear Analysis (FSDONA) conference, Helsinki, August 2008.
- Member International Scientific Committee of the 6th International Conference on Inverse Problems in Engineering: Theory and Practice (ICIPE 2008)held in Dourdan (Paris), France on June 15-19, 2008
- Member of the International Program Committee of "Inverse Problems : Modeling and Simulation", Fethiye, TURKEY, May 2008.
- Member of Scientific Committee of 3rd Latin Congress of Mathematicians, 2008-2009.
- Reviewer of FONDAP Center "Centro de Modelamiento Matemático" (CMM) in Chile, September, 2006
- Member of International Program Committee of International Conference on Inverse and Ill-Posed Problems of Mathematical Physics, Novisibirsk, Russia, August, 2007.
- International Program Committee of VII Americas School in Differential Equations and Nonlinear Analysis Cartagena, Colombia, July 23, 2007 - July 27, 2007
- Chair committee to select speakers of AMS Western regional Meetings, 2006-2007.
- Chair AMS-SIAM committee to select winner of 2006 Birkhoff Prize.
- International Review Committee of FONDAP Center for Mathematical Modelling (CMM), Chile, March 2005.
- Committee to select speakers of AMS Western regional Meetings, 2005-2007.
- Member of Scientific Review Panel of PIMS, January 2002-July 2007.
- Steering committee of Applied Inverse Problems (AIP) conferences since 2003.
- Scientific Committee of PICOF'06, Nice, France.
- Scientific Committee 5th International Conference on Inverse Problems in Engineering: Theory and Practice, Cambridge, England, July 2005.

- Scientific Committee, International Conference Inverse Problems:Modeling and Simulation, Fethiye, Turkey, June, 2004.
- Member of organizing committee of special semester on inverse problems at IPAM, UCLA, Fall 2003.
- Member of International Advisory member for theme year in inverse problems in Finland, 2003-2004.
- International Scientific Committee, International Conference on on Ill-Posed Inverse Problems in honour of the 70th anniversary of the birth of Prof. M.M. Lavrent'ev, Novosibirsk, Russia, August, 2002.
- Chair, Organizing Committee of Semester on Inverse Problems and Applications at MSRI, Berkeley, Fall 2001.
- Member of AMS Council 1992-1994.
- Reviewer, Mathematical Reviews 1981-1991.

Conferences and Special Years Organized

- Co-organized workshop in scattering theory at MIT, April 1984 (jointly with V. Guillemin, D. Jerison and R. Melrose).
- Co-organized special session on Inverse problems, AMS meeting, June 1991 (jointly with J. Sylvester).
- Co-Chairman Summer Research Conference on Electrical Impedance Tomography, July, 1995 (jointly with J. Sylvester and M. Vogelius).
- Organized a session on "Inside Out: Inverse Boundary Problems", for the AAAS 1997 Annual Meeting and Science Innovation Exposition.
- Organized the first "Inverse Problems Seminar of the Pacific Northwest", May 1999.
- Co-organizer of Special Session of AMS on "Microlocal Analysis and Applications", September 1999 (partly supported by MSRI).
- Co-organizer of Workshop on "Mathematics of Imaging", MSRI, Berkeley, November 1999jointly with A. Grunbaum).
- Co-organizer of the first "Pacific Northwest PDE" meeting, Vancouver, Canada, May 2000 (jointly with R. Froese and N. Ghoussoub.
- Co-organizer of the second "Pacific Northwest PDE" meeting, UW, Seattle, May 19, 2001 (jointly with R. Froese and N. Ghoussoub).
- Co-organizer PIMS-MITACS workshop on "Inverse Problems and Imaging", June 9-10, 2001, Vancouver, Canada (jointly with M. Lamoureux and G. Margrave).
- Co-organizer IMA summer workshop on "Geometric Methods in Inverse Problems and PDE Control", July 16-27, 20001 (jointly with C. Croke, I. Lasieka and M. Vogelius).
- Co-organizer Introductory workshop on "Inverse Problems and Integral Geometry", MSRI, Berkeley, August 13-24, 2001 (jointly with L. Borcea, D. Colton, M. Eastwood A. Goncharev and S. Gindikin).
- Chair organizing committee Pan American Advanced Studies Institute (PASI) on Inverse Problems, MSRI, Berkeley, October 28-November 2, 2001.

- Chair of organizing committee of workshop on "Inverse Problems and Applications", MSRI, Berkeley, November 2-16, 2001.
- Co-chair of Instituto di Alta Matematica (INdAM) workshop on "Inverse Problems and Applications", Cortona, Italy, June 2-8, 2002 (jointly with G. Alessandrini).
- Co-chair of Special Session on "Inverse Boundary Problems and Applications", in First AMS-UNI meeting, Pisa, Italy, June 12-16, 2001 (jointly with G. Alessandrini).
- Coordinator of 2003 PIMS thematic year on inverse problems. As part of this thematic year I co-organizer five workshops on the theory and applications of inverse problems.
- Co-organizer of IPAM special semester in fall 2003 on "Inverse Problems: Computational Methods and Emerging Applications."
- Co-organizer of Special Session AMS on "Theoretical And Computational Aspects of Inverse Problems", Atlanta meeting, January, 2005.
- Co-chair of minysimposium on "Inverse Problems in Wave Propagation", Applied Inverse Problems, Great Britain, June, 2005 (jointly with W. Symes).
- Organizer of Summer Graduate School on Inverse Problems, University of Washington, August, 2005.
- Co-chair of 4th Pacific Northwest PDE meeting, UBC, Vancouver, December, 2005 (jointly with R. Froese and T. Toro.)
- Co-organizer of "Seminar on Inverse Problems and Applications" in honor of Alberto P. Calderón, Rio de Janeiro, Brazil, March 2006.
- Co-chair of BIRS workshop on "Inverse Problems and Applications", Banff, August 20-24, 2006 (jointly with G. Margrave).
- Co-chair of Symposium on Inverse Problems Honoring Alberto Calderón IMPA, Río de Janeiro, Brazil, January 10 to 19, 2007 (jointly with A, Sa Barreto and J. Zubelli).
- Co-organizer of Conference on "Microlocal Analysis and Harmonic Analysis in Inverse Problems", CIRM, Luminy, France, March 26-30, 2006.
- Organizer of Summer School on "Inverse Problems and Radiative Transfer", Seattle, June 18-22, 2007.
- Chair of Applied Inverse Problems 2007 Conference and First International Congress of IPIA, Vancouver, Canada, June 25-29, 2007.
- Co-organizer of meeting on "Mathematics of Oil Exploration", Monterrey, Mexico, October 17-18, 2007.
- Co-organizer of meeting on "Electromagnetic Metamaterials and their Approximations: Practical and Theoretical Aspects", Center for Scientific Computation and mathematical Modeling, University of Maryland, September 2008.
- Chair or Organizing Committee of "Mathematics Research Communities" meeting on Inverse Problems, Snowbird, Utah, June 2009.
- Organizer of Summer Graduate school on "Inverse Problems and Applications", MSRI, July 2009.
- Co-chair of summer school on "Seismic Imaging", Seattle, August, 2009.

- Co-chair of Research Training Grant Summer School on Inverse Problems and PDE, UW, Seattle, July, 2010.
- Chair of organizing committee on program at MSRI, Berkeley, in Fall 2010 on "Inverse Problems and Applications".
- Chair of organizing committee of "Connections for Women" workshop at MSRI, Berkeley, August, 2010.
- Chair of organizing committee of "Introductory Workshop" at MSRI, August, 2010.
- Chair of organizing committee of "Inverse Problems and Applications" workshop at MSRI, November, 2010.
- Co-organizer of special session on "Inverse Problems and PDE Control", Pucón, Chile, December 2010.
- Co-organizer of workshop at Isaac Newton Institute on "Inverse Problems in Analysis and Geometry", Cambridge, England, August 2011.

PhD Students

- José Antoniano, PhD 1983.
- Fernando Brambila, PhD 1985.
- Kurt Bryan, PhD 1990.
- Charles Curtis, PhD 1994.
- Carlos Tolmasky, PhD 1996.
- Lizabeth Rachelle, PhD 1996.
- Jenn-Nan Wang, PhD 1997.
- Steve McDowall, PhD 1998.
- Eduardo Chappa, PhD 2002.
- Alexandru Tamasan, PhD 2002.
- Karthik Ramaseshan, PhD 2003.
- Michal Skokan, PhD 2004.
- Mikko Salo, PhD 2004 (coadvisor with L. Päivärinta).
- Bela Frygik, PhD 2006 (coadvisor with P. Stefanov).
- Matias Courdurier, PhD 2007.
- Venkateswaran Krishnan, PhD 2007 (coadvisor with P. Stefanov).
- Leo Tzou, PhD 2007.
- Ian Langmore, PhD 2008.
- Sean Holman, PhD 2009.
- James Vargo, PhD 2010.
- Ting Zhou, PhD, December 2010.
- Jie Chen, current PhD student.
- Mark Hubenthal, current PhD student.

- Ilker Kocyigit, current PhD student.
- Juha-Matti Perkkiö, current PhD student (coadvisor with M. Lassas).
- Lee Petroia, current PhD student.
- Justin Tittlefitz, current PhD student (co-advisor with H. Smith).
- Hang Xu, current PhD student.
- Yang Yang, current PhD student.

Postdoctoral Advising

- Edoh Amiran, 1986-1989.
- Ziqi Sun, 1987-1990.
- Ramon Mendoza, 1991-1992.
- Masaru Ikehata, 1992-1993.
- Clifford Nolan (NSF postdoc), 1997-2000.
- Elisa Francini, 1998-1999.
- Matti Lassas, 1998-1999.
- Gleb Dyatlov, Spring 2002.
- Stephen McDowall, Summer 2002.
- Peter Gibson (NSCER postdoc), November 2001-August 2002
- Kim Knudsen, August 2004-June 2005.
- Mikko Salo, January 2005-July 2005.
- Horst Heck, August 2005-February 2006.
- Mikko Salo, March 2006-June 2006 (joint with Hart Smith).
- Xiaosheng Li, September 2005-July 2008.
- Hongyu Liu, September 2007-June 2010.
- Alberto Mercado, November 2007-July 2008.
- Ben Stephens, September 2009-present (joint with Tatiana Toro).
- Tu Nyugen, August 2009-present (joint with Tatiana Toro).
- Frederic de Gournay, Feb. 2010-June 2010.

Publications.

1. "Pseudodifferential operators with involutive double characteristics", *Communications in PDE*, **2**(1977), 713–779.
2. With R. B. Melrose, "Lagrangian intersection and the Cauchy problem", *Comm. on Pure and Appl. Math.*, **32**(1979), 483–519.
3. "Parametrices for operators with multiple involutive characteristics", *Comm. in PDE*, **4**(1979), 571–582.
4. With R. B. Melrose, "Microlocal structure of involutive conical refraction", *Duke. Math. J.*, **43**(1979), 571–582.
5. With V. Guillemin, "Oscillatory integrals with singular symbols", *Duke. Math. J.*, **48**(1981), 251–267.
6. "Light intensity distribution in conical refraction", *Comm. on Pure and Appl. Math.*, **35**(1982), 69–80.
7. With G. Mendoza, "A necessary condition for local solvability for a class of operators with double characteristics", *J. Funct. Anal.*, **52**(1983), 252–256.
8. With G. Mendoza, "A sufficient condition for local solvability for a class of operators with double characteristics", *Amer. J. Math.*, **106**(1984), 187–217.
9. With C. Callias, "Singular asymptotics approach to partial differential equations with isolated singularities in the coefficients", *Research Announcements Bull. AMS.*, **11**(1984), 172–176.
10. "A boundary canonical transformation for a class of operators with double characteristics", "Analysis, Geometry and Probability", Proceedings of the First Chilean Symposium on Mathematics, *Lecture Notes in Pure and Appl. Math.*, **93**(1985), 53–68, Marcel Dekker Publisher.
11. With C. Callias, "Asymptotics of the scattering amplitude for singular potentials", MSRI preprint (1983).
12. With J. Antoniano, "A functional calculus for a class of pseudodifferential operators with singular symbols", *Proceedings of Symposia in Pure Mathematics*, **43**(1985), 5–16.
13. With J. Sylvester, "A uniqueness theorem for an inverse boundary value problem in electrical prospection", *Comm. on Pure and Appl.Math*, **39**(1986), 91–112.
14. "Product type conormal distributions in scattering theory", in *Proceedings VII ELAM* in Dynamical Systems and Partial Differential Equations, 155–160(1986), Universidad Simón Bolívar.
15. "On L^2-estimates for singular Radon transforms", preprint, MIT, (1985).
16. With J. Sylvester, "A global uniqueness theorem for an inverse boundary value problem", *Annals of Math.*, **125**(1987), 153–169.
17. With J. Sylvester, "Remarks on an inverse boundary value problem", Proceedings Oberwolfach Conference on topics in Pseudodifferential Operator, *Lecture Notes in Math.* **1256**(1987), 430–441, H. Cordes, B. Gramsch and H. Widom, editors.
18. With J. Sylvester, "Inverse boundary value problems at the boundary-continuous dependence", *Comm. on Pure and Appl. Math.*, **41**(1988), 197–219.

19. "Scattering by a potential", Lecture notes in Spanish, *Acta Científica Venezolana*, **36**(1985), 1–18.
20. "Microlocal Analysis and Scattering theory", Lecture notes in Spanish of series of talks given at VIII ELAM, Río de Janeiro, Brazil (1986).
21. With J. Sylvester, "Inverse boundary value problems", *Proceedings VIII ELAM*, *Lecture Notes in Math.*, **1324**(1986), 320–328.
22. With A. Nachman and J. Sylvester, "An n-dimensional Borg-Levinson theorem", *Comm. Math. Phys.*, **115**(1988), 595–605.
23. With A. Greenleaf, "Non-local inversion formulas for the X-ray transform", *Duke Math. Journal*, **58**(1989), 205–240.
24. With A. Greenleaf, "Estimates for singular Radon transforms and pseudodifferential operators with singular symbols", *Journal of Functional Analysis*, **89**(1990), 202–232.
25. With J. Lee, "Determining anisotropic real-analytic conductivities by boundary measurements", *Comm. Pure Appl. Math.*, **42**(1989), 1097–1112.
26. With A. Greenleaf, "Composition of some singular Fourier integral operators and estimates for restricted X-ray transforms", *Ann. Institut Fourier (Grenoble)*, **40**(1990),443–466 .
27. With Z. Sun, "Generic uniqueness for an inverse boundary value problem", *Duke Math. Journal*, **62**(1991), 131–155.
28. With J. Sylvester, "The Dirichlet to Neumann map and applications", SIAM proceedings series list, Inverse Problems in Partial Differential Equations (1990), 101–139.
29. With R. Melrose, "Introduction to Microlocal Analysis", Lecture Notes available.
30. With A. Greenleaf, "Microlocal techniques in integral geometry", *Contemporary Math*, **113**(1990), 121–135.
31. With Z. Sun, "Inverse scattering for singular potentials in two dimensions", *Transactions AMS*, **338**(1993), 363-374.
32. With Z. Sun, "Generic uniqueness for determined inverse problems in 2 dimensions", Proceedings satellite conference on inverse problems in the engineering sciences, ICM, Kyoto, Japan. Springer Verlag 145–152.
33. With G. Nakamura, "Identification of Lamé parameters from boundary measurements", *American Journal of Math.* **115**(1993), 1161–1187.
34. With J. Sylvester, "Inverse problems in anisotropic media" *Contemp. Math.* **122**, (1991), 105–117.
35. With G. Nakamura, "Uniqueness for identifying Lamé moduli by Dirichlet to Neumann map", Proceedings ICM 1990, satellite conference on inverse problems in the engineering sciences, ICM, Kyoyo, Japan, Springer Verlag 133–138.
36. "Inverse boundary value problems and applications", *Astérisque* **207**(1992) 153–211.
37. With A.Greenleaf, "Composition of some singular Fourier integral operators II", *Duke Math. J.* **64** (1991), 415–444.
38. With Z. Sun, "On an inverse boundary value problem for Maxwell's equations", *Arch. Rational Mech. Anal.* **119** (1992), 71–83.

39. With A. Greenleaf, "Microlocal analysis of the two-plane transform", *Contemp. Math.* **140** (1992), 65–71.
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42. With G. Nakamura, "Inverse boundary problems at the boundary for an elastic system", *SIAM J. Math. Anal.***26** (1995), 263-279.
43. With G. Nakamura, "Global uniqueness for an inverse boundary value problem arising in elasticity", *Inventiones Math.* **118** (1994), 457-474. Erratum: *Inventiones Math.*, **152** (2003), 205-207.
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56. With P. Stefanov, "Rigidity for metrics with same lengths of geodesics", *Mathematical Research Letters* **5** (1998), 83–96.

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59. "Developments in inverse problems since Calderón's foundational paper", Essays on Harmonic Analysis and Partial Differential Equations in honor of Alberto P. Calderón, University of Chicago Press, (1999), 295–345, edited by M. Christ, C. Kenig and C. Sadosky.
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69. With M. Lassas and M. Taylor, "The Dirichlet-to-Neumann map for complete Riemannian manifolds with boundary", *Communications in Analysis and Geometry*, **11**(2003), 207-221.
70. With D. Finch, "The X-ray transform for a non-abelian connection in two dimensions", *Inverse Problems*, **17**(2001), 695-201.
71. "A time-dependent approach to the inverse backscattering problem, *Inverse Problems*, **17**(2001), 703–716.
72. "Travel time tomography", *Journal of the Korean Mathematical Society*, **38**(2001), 711-722.
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74. With M. Lassas and V. Sharafutdinov, "Semiglobal boundary rigidity for Riemannian metrics", *Math. Annalen*, **325**(2003), 767-793.
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80. With H. Kang, "Inverse problems for the Pauli Hamiltonian in two dimensions", *Journal of Fourier Analysis and Applications*, **10**(2004), 201-215.
81. "Inverse boundary problems in two dimensions", *Function Spaces, Differential Operators and Nonlinear Analysis - The Hans Triebel Anniversary Volume*, Birkhäuser, Basel-Boston-Berlin, (2003), 183-203, edited by D. Haroske, T. Runst, H-J. Schmeisser.
82. With G. Nakamura, "Complex geometrical optics solutions and pseudoanalytic matrices", *Journal of Ill-Posed and Inverse Problems*, **10**(2002), 305–338.
83. With G. Dyatlov and A. Bugkheim, "'Reconstruction of the memory from partial boundary measurements", *Contemporary Mathematics*, **307**(2002), 39-46.
84. With P. Stefanov, "Optical tomography in two dimensions", *Methods and Applications of Analysis*, **10**(2003), 1-9.
85. With S. Hansen, "Determining acoustic and elastic parameters from travel times", *Proceedings of 2002 ASME International Mechanical Engineering Congress and Exposition (IMECE 2002).*
86. With P. Stefanov, "Local uniqueness for the inverse obstacle problem at fixed energy and fixed angle", *Proc. Amer. Math. Soc.*, **132**(2004), 1351-1354.
87. With J.-N. Wang, Boundary determination of a Riemannian metric by the distance function", *Advances in Applied Mathematics*, **31**(2003), 379-387.
88. "The Cauchy data and the scattering relation", *IMA Publications*, **137**, "Geometric methods in inverse problems and PDE control" (2003), 263-288.
89. With C. Nolan, "Geometrical optics for anisotropic materials", *Contemporary Math.*, **333**(2003), 177-185.
90. With A. Vasy, "Inverse problems in 3-body scattering", *Contemporary Math.*, **333**(2003), 209-215.
91. With P. Stefanov, "Stability estimates for the X-ray transform of tensor fields and boundary rigidity, *Duke Math. J.*, **123**(2004), 445-467.
92. "The inverse kinematic problem in anisotropic media" in Mathematical and Numerical Aspects of Wave Propagation, Waves 03, 39-45, edited by G. C. Cohen, E. Heikkola, Patrick Joly and Pekka Neittaanmäki.
93. With H. Ammari, "'Reconstruction of the Potential from Partial Cauchy Data for the Schrödinger Equation", *Indiana Math J.*, **53**(2004), 169-184.
94. With A. Vasy, "Inverse Problems in N-body scattering", *Contemporary Math.*, **348**(2004), 135-154.
95. With A. Greenleaf and M. Lassas, "Anisotropic conductivities that cannot be detected by EIT", *Physiological Measurement*, **24**(2003), 413-420.

96. With A. Greenleaf and M. Lassas, "On nonuniqueness for Calderón's inverse problem", *Mathematical Research Letters*, **10**(2003), 685-693.
97. "On the local Dirichlet to Neumann Map", in New Analytic and Geometric Methods in Inverse Problems, Springer (2004), 261-279, edited by K. Bingham, Ya. V. Kurylev and E. Somersalo.
98. With D. Finch and Ih-Ren Lan, "Microlocal analysis of the restricted X-ray transform with sources on a curve", Inside Out, Inverse Problems and Applications, MSRI Publications Volume **47**, Cambridge University Press 2003, 193-218.
99. With L. Pestov, "Two dimensional, compact, simple Riemannian manifolds are boundary distance rigid", *Annals of Math*, **161**(2005), 1089-1106.
100. With Z. Sun, "Anisotropic inverse problems in two dimensions", *Inverse Problems*, **19**(2003), 1001-1010.
101. With G. Nakamura and J-N. Wang, "Reconstruction of cracks in an inhomogeneous, anisotropic elastic medium", *Journal de Mathématiques Pures et Appliquées*, **82** (2003), 11251-1276.
102. With H. Isozaki, "Hyperbolic geometry and the local Dirichlet-to-Neumann map", *Advances in Math.*, **188**(2004), 294-314.
103. With L. Pestov, "The boundary distance function and the Dirichlet-to-Neumann map", *Math. Research Letters*, **11**(2004), 285-298.
104. With J.-N. Wang and G. Nakamura, "Unique continuation property for elliptic systems and crack determination in anisotropic elasticity", *Contemp. Math.*, **362**(2004), 321-338.
105. With C. Kenig and J. Sjostrand, "The Calderón problem for partial Cauchy data", *Annals of Math.*, **22**(2007), 431-445.
106. With G. Nakamura and J.-N. Wang, "Oscillating decaying solutions, the Runge approximation property and their application to inverse problems", *Journal des Mathematiques Pures et Appliquées*, **84**(2005), 21–54.
107. With L. Pestov, "Characterization of the range and inversion formulas for the geodesic X-ray transform", *International Mathematical Research Notices (IMRN)*, **80**(2004), 4331-4347.
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111. With P. Stefanov, "Stable determination of the hyperbolic Dirichlet-to-Neumann map for generic simple metrics", *International Math Research Notices (IMRN)*, **17**(2005), 1047-1061.
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113. With P. Stefanov, "Recent progress on the boundary rigidity problem", *Electr. Res. Announc. Amer. Math. Soc.*, **11**(2005), 64-70.
114. With M. V. de Hoop, "Characterization and source-receiver continuation of seismic reflection data", *Comm. Math. Phys.*, **263**(2006), 1-19.

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116. With L. Pestov, "The scattering relation and the Dirichlet-to-Neumann map", *Contemporary Math.*, **412**(2006), 219-230.
117. With P. Stefanov, "Integral geometry of tensor fields on a class of non-simple Riemannian manifolds", *American J. Math.*, **130**(2008), 239-268.
118. With C. Kenig, D. Dos Santos Ferreira, J. Sjöstrand, " Determining the magnetic Schrödinger operator from partial Cauchy data", *Comm. Math Phys.*, **271**(2007), 467-488.
119. With J.-N. Wang, "Complex spherical waves for the elasticity system and probing of inclusions", *SIAM J. Math. Analysis*, **38**(2007), 1967–1980.
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121. With A. Greenleaf, Y. Kurylev and M. Lassas, "Full-wave invisibility of active devices at all frequencies", *Comm. Math. Phys.*,**275** (2007), 749-789.
122. With E. Chung, J. Qian, H. Zhao, "A new phase space method from recovering index of refraction from travel times", *Inverse Problems*, **23**(2007), 309-329.
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124. With C. Nolan, "Parametrices for symmetric systems with multiplicities", *Wave Motion*, **44**(2007), 231–247.
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128. With B. Frigyik and P. Stefanov, "The X-Ray transform for a generic family of curves and weights", *J. Geometric Analysis*, **18**(2008), 9–108.
129. With P. Stefanov, "Boundary and lens rigidity, tensor tomography and analytic microlocal analysis", in Algebraic Analysis of Differential Equations, Fetschrift in Honor of Takahiro Kawai, edited by T. Aoki, H. Majima, Y. Katei and N. Tose, pp. 275-293 (2008).
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