

# CURRICULUM VITAE

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## EDUCATION

Ph.D.                    Massachusetts Institute of Technology, Mathematics, June 1997  
Thesis advisor:      Richard B. Melrose  
Thesis title:         *Propagation of singularities in three-body scattering*

M.S.                    Stanford University, Mathematics, June 1993

B.S.                    Stanford University, Physics, June 1993

## PROFESSIONAL EXPERIENCE

2008-                    *Professor*, Department of Mathematics, Stanford University.  
2005-2008              *Associate Professor*, Department of Mathematics,  
                                Stanford University (on leave 2005-2006).

2004-2005              *Visiting Associate Professor*, Department of Mathematics,  
                                Northwestern University.

2003-2006              *Associate Professor*, Department of Mathematics,  
                                Massachusetts Institute of Technology (on leave 2004-2006).  
                                Promoted to *Associate Professor with tenure*, July 2005.

June 2002                *Enseignant Invité*, Département de Mathématiques, Université de Nantes.

Spring 2001             *Local organizer*, semester-long Programme in Scattering Theory,  
                                Erwin Schrödinger Institute, Vienna, Austria.

1999-2003              *Assistant Professor*, Department of Mathematics,  
                                Massachusetts Institute of Technology (on leave 1999-2000,  
                                spring 2001).

1997-2000              *Morrey Assistant Professor*, Department of Mathematics,  
                                University of California, Berkeley.

1996-1997                *Alfred P. Sloan Doctoral Dissertation Fellow*.

1993-1996                *Teaching Assistant*, Department of Mathematics,  
                                Massachusetts Institute of Technology.

## RESEARCH INTEREST

Microlocal Analysis, Partial Differential Equations, Wave Propagation, Inverse Problems,  
General Relativity,  $N$ -body Scattering, Symmetric Spaces, Analysis on Manifolds.

## RECENT CONFERENCE ORGANIZATION

Fall 2019	<i>Co-organizer</i> , semester-long Program on Microlocal Analysis, Mathematical Sciences Research Institute, Berkeley, CA.
October 19-20, 2019	<i>Co-organizer</i> , Conference on ‘Microlocal Analysis and Spectral Theory’, Berkeley, CA.
June 3-7, 2019	<i>Co-organizer</i> , Conference on the ‘Fredholm Theory of Non-Elliptic Operators’, Leeds, United Kingdom.
November 10-12, 2017	<i>Co-organizer</i> , conference on ‘Symplectic geometry and microlocal analysis’, MIT, Cambridge, MA.
July-September 2015	<i>Co-organizer</i> , Programme on the ‘Modern Theory of Wave Equations’, Erwin Schrödinger Institute, Vienna, Austria.

## ADMINISTRATIVE DUTIES

2018-2021	<i>Appointments Committee</i> , Stanford University, Department of Mathematics.
2018-2019	<i>Graduate Admissions Committee</i> , Stanford University, Department of Mathematics.
2017	<i>Committee on Diversity</i> , Stanford University, School of Humanities and Sciences.
2016-2017	<i>Colloquium Co-chair</i> , Stanford University, Department of Mathematics.
2013-2017	<i>Graduate Admissions Committee</i> , Stanford University, Department of Mathematics.
2012-2013	<i>Natural Sciences Curriculum Review Committee</i> , Stanford University, School of Humanities and Sciences.
2011-2015	<i>Appointments Committee</i> , Stanford University, Department of Mathematics.
2007-2010	<i>Director of Graduate Studies</i> , Stanford University, Department of Mathematics.
2006, 2007	<i>Graduate Admissions Committee</i> , Stanford University, Department of Mathematics.

## PROFESSIONAL RESPONSIBILITIES

2007-	<i>Editor</i> , Analysis & PDE (journal)
2017-2022	<i>Member</i> , Collected Works committee of the American Mathematical Society.
2020-	<i>Editor</i> , Communications of the AMS (new journal)

## FELLOWSHIPS, HONORS, GRANTS AND PRIZES

2020-	<i>NSF grant DMS-1953987</i> , on “Microlocal analysis and applications”.
2019	Elected to the <i>American Academy of Arts and Sciences</i> .
2019	<i>ICME Faculty Teaching Award</i> , Stanford University.
2017-2018	<i>Simons Fellowship</i> , Simons Foundation.
2017	<i>Bôcher Prize</i> of the American Mathematical Society.
2017-2020	<i>NSF grant DMS-1664683</i> , on “Microlocal analysis of linear and nonlinear problems”.
2014	<i>Invited speaker</i> for the Partial Differential Equations section at the <i>International Congress of Mathematicians</i> , Seoul.
2014-2018	<i>NSF grant DMS-1361432</i> , on “Microlocal analysis for waves and inverse problems”.
2011-2016	<i>NSF grant DMS-1068742</i> , on “Propagation Phenomena for Waves and Scattering”.
2010-2013	<i>NSF grant DMS-1025259</i> , on “CMG: Nonlinear Elastic-Wave Inverse Scattering and Tomography - from Cracks to Mantle Convection”.
2008-2009	<i>Chambers Fellowship</i> , Stanford University.
2008-2011	<i>NSF grant DMS-08-01226</i> , on “Wave propagation: Singularities and asymptotics”.
2004-2006	<i>Clay Research Fellowship</i> .
2002-2007	<i>NSF grant DMS-02-01092</i> , on “Many-body scattering and symmetric spaces”.
2002-2004	<i>Alfred P. Sloan Research Fellowship</i> .