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- 1973-1975 : CEA, Département de Physique des Plasmas et de la Fusion Contrôlée
1976-1977 : Master of science, Stanford University (bourse des affaires étrangères), USA
1977-1980 : Doctorat de 3ième cycle en Physique, Université Paris VII
1980-1981 : Post-doc, Harvard University, Fulbright Fellow (bourse Fulbright), USA
1981-1987 : Doctorat d'état en Mathématiques, Université Paris VI
1981- : Chercheur CNRS détaché au LMD (Laboratoire de Météorologie Dynamique) de l'ENS (Ecole Normale Supérieure), Paris
1990 : Visiting scientist, CTR (Center for Turbulence Research), Stanford University
1994-1995 : Sofia Kovaleskaia Chair of Mathematics, Kaiserslautern Universität, Germany
2000 : Visiting scientist, CTR (Center for Turbulence Research), Stanford University
2005-2008 : Visiting fellow of Trinity College, Cambridge University, UK
2007- : Member of the Ethics Committee of CNRS (COMETS)
2009-2010 : Fellow of the Wissenschaftskolleg, Berlin, Germany
2011 : Visiting fellow of the Burgers Center, University of Maryland, USA
2012 : Visiting fellow of the Max Planck Institut für Wissenschaftsgeschichte, Berlin
2013- : Member of the Council of Academia Europaea
2014- : Member of RDA (Research Data Alliance)
2015- : Co-founder of CAPSH (Committee for the Accessibility to Publications in Sciences and Humanities which develop the platform <http://dissem.in>)
2015 : Expert for DG CNECT (Communications Networks, Content and Technology) of the European Commission
2016 : Visiting scientist, CTR (Center for Turbulence Research), Stanford University
2016-2017 : Member of RISE (Research Innovation and Science Experts) advising the European Commissioner for Research, Science and Innovation, Carlos Moedas
2016- : Member of HERCULES (Higher Education Research and Culture in Europe)
2017- : Member of AECC (Academia Europaea Communication Committee)

Publication

103 articles in refereed journals, 127 in refereed proceedings and 42 in books, which can be downloaded from <http://wavelets.ens.fr> and from <http://dissem.in>

Associate editor

- 1993- : Journal of Applied and Computational Harmonic Analysis, Elsevier (I participated to the creation of ACHA in 1992 and on strike since 2012 due to the Elsevier's boycott launched by *The Cost of Knowledge*)
1994-2004 : The Journal of Fourier Analysis and Applications, Birkhäuser
2004-2011 : SIAM Journal of Multiscale Modeling and Simulation
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Teaching

Courses of physics, applied mathematics, numerical simulation, fluid mechanics, wavelet transform, image processing and denoising, visualization :

France (CNRS-Formation-Entreprises, ENSTA, ENS-Paris, Sciences-Po Paris, Aix-Marseille Université, Université Technologique de Compiègne, Ecole Centrale de Marseille, CNES, ONERA, Aérospatiale, ITER International School), United States (Stanford University, UC Santa Barbara, University of San Diego), England (University of Leeds), Germany (Kaiserslautern Universität, Max Plank Institute für Plasma Physik Garching, Universität Hamburg), China (Wuhan University), Turkey (Istanbul University, Ankara University), Netherlands (Technische Universiteit Delf, Universiteit Leyden), Brazil (Universidade Estadual de Campinas, Universidade Federal do Rio Grande do Sul Porto Alegre, National Space Research Institute San Jose dos Campos), Tunisia (Carthage Mathematics Summer School), Poland (Academy of Sciences Warsaw), Italy (International Center for Theoretical Physics of the United Nations in Trieste, Università di Siena), India (Tata Institute for Fundamental Research Bangalore, Indian Institute of Technology Delhi), Japan (Kyoto University), Korea (National Fusion Research Institute Daejeon) .

Honors

1971: Prize of ESRO (European Space Research Organization)
1985: Prize of the Ministry of Foreign Affairs of Japan
1988: *Seymour Cray Prize for Computer Simulation*, Cray Research
1989: *Prix La Recherche en Action*, CNRS
1991: *Gallery of Fluid Motions Prize*, American Physical Society
1993: *Prix Poncelet*, Académie des Sciences de Paris
2005: Elected as member de l'*Academia Europaea*
2010: Elected as *Fellow of the American Physical Society*
