

CURRICULUM VITAE

Last Name: VITERBO

First and Middle Name: Claude, Michel

Born: April, 20, 1961 in Geneva (Switzerland)

Citizenship : French

Current Position: Professor Classe Exceptionnelle 2ème échelon (similar to Distinguished professor) at Université de Paris-Sud

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Professional career:

2021-	Professor at the Mathematics Department, Université de Paris-Saclay, Orsay
2011-2021	Professor at Ecole Normale Supérieure (Ulm), Paris (Professeur de classe exceptionnelle 2ème échelon since 2011, on leave from Paris-Sud)
2000-2011	Full-time professor at Ecole Polytechnique (Professeur de classe exceptionnelle 1er échelon since 2006, on leave from Paris-Sud)
1993- 2000	Professeur 1ère classe à l'Université de Paris-Sud, Orsay
1991-93	Professeur 2ème classe à l'Université de Paris-Sud, Orsay
1989-91	Chargé de Recherches 1ère classe au C.N.R.S., Ceremade, Université de Paris-Dauphine
1986-88	Postdoc at the Courant Institute (NYU)
1988-89	Postdoc at MSRI, Berkeley
1985-89	Chargé de Recherches 2ème classe puis 1re classe au C.N.R.S.
1980-85	Student of Ecole Normale Supérieure

Degrees:

Agrégé de Mathématiques (1983)

Thèse de 3ème cycle (1985) directeur de recherche I. Ekeland with F. Laudenbach

Habilitation à diriger des Recherches (1989) "Topologie symplectique et systèmes Hamiltoniens". Jury: M. Gromov (président), A. Bahri, D. Bennequin, I. Ekeland, H. Hofer, J.M. Lasry, F. Laudenbach, P.L. Lions, E. Zehnder)

Prizes and Awards:

Cours de la Fondation Peccot 1990-1991
Prix Carrière de l'Académie des Sciences 1991
Lecturer at the first ECM, Paris, 1992
Prix Scientifique IBM de Mathématiques 1993
45mn lecture at the ICM, Zuerich, 1994
Junior member of Institut Universitaire de France 1995-2000
Eilenberg Chair, Columbia University, Spring 2011
International Prize « Tullio Levi-Civita »
for the Mathematical and Mechanical Sciences, 2019

Other recognitions :

Symplectic Topology : A festschrift in Honour of Claude Viterbo's 60th birthday. 2 volumes as a special issue of the Journal of Fixed point theory. Editors H. Hofer, A. Abbondandolo, U. Frauenfelder, F. Shlenk

Conference : From Hamiltonian Dynamics to Symplectic Topology and Beyond A 2024 celebration of Claude Viterbo and his mathematics. 3-7 June 2024. IHP, Paris, France
<https://viterbo2024.sciencesconf.org/>

Editorial Boards:

1994-2013	Editorial Board of Annales de l'IHP Analyse Non Linéaire.
1998-2006	Editorial Board of Séminaires et Congrès (revue de la Société Mathématique de France)
2003-2015	Editorial Board of Annales de La Faculté des Sciences de Toulouse
2004-2011	Editorial Board of Annales de l'École Normale Supérieure
2011-	Editorial Board of Rendiconti del Seminario Matematico della Università di Padova

Committees:

1994-98	Vice-President of the Programme Committee of Institut Henri Poincaré.
1998-2000	Président of the Programme Committee of Institut Henri Poincaré.
2001-2005	Member of the Programme Committee of CIMP.
2002-2004	Vice-president of the Programme Committee of CIMP
1995-2000	Member of the hiring committee of University of Paris 13

- 2001-2004 Member of the hiring committee of University of Paris 6
- 2003 et 2005 Committee of DFG Schwerpunktprojekt im DifferentialGeometrie (RFA)
- 2004-2006 Member of the hiring committee of University of Paris 7
- 2006 Member of the hiring Committee for a Professorship in Uppsala (Sweden)
- 2007 and 2017 Member of a hiring Committee for a Professorship at ETH Zuerich (Switzerland)
- 2006-2008 Member of the Institut Universitaire de France Committee
- 2007- 2010 Vice-President of Comité National des Universités
- 2011-2015 Member of the Scientific Board of Ecole Normale Supérieure
- 2010- 2015 Membre of the Scientific Board of the J. Hadamard Foundation
- 2012- 2017 President of the Conseil d'Orientation du Labex IRMIA (Strasbourg)
- 2021- Member of the Comité de Prospective et de Recrutement de l'Institut Mathématique de Jussieu

Administration:

- 1999-2000 Head of the team "Topologie et Dynamique" in the departement of Mathématiques in Orsay
- 2000- 2006 Chairman of the Centre de Mathématiques de l'Ecole Polytechnique (now Centre Mathématique Laurent Schwartz).
- 2009- 2010 President of the Mathematics Department, Ecole polytechnique.
- 2011- 2013 Direction des Etudes du Département de Mathématiques de l'ENS
- 2013-2017 Chairman of the Mathematics department of Ecole normale supérieure

Recent invitations:

- April 2001 2 weeks at Tel-Aviv University (Israël) and Bir Zeit (Occupied Territories)
- March 2002 One week at IAS, Princeton.
- March 2003 3 weeks at IPAM, Los Angeles

Nov. 2003 3 weeks at ETH, Zürich

March 2004 3 weeks at MSRI Berkeley for the
semester on Real Algebraic Geometry

June 2005 1 month at PIMS, Vancouver

April-May 2007 2 months at Beijing University

June 2007 1 month at PIMS, Vancouver

March-May 2009 3months Beijing International Center for Mathematical Research,
Beijing

March 2010 1 month at MSRI

Fall 2010 3 months at IAS Princeton

Spring 2011 6 months at Columbia University on the Eilenberg Chair

Spring 2012 One month at IAS, Princeton

Fall 2016 One month at IAS, Princeton

Nov. 2018 1 month at MSRI, Berkeley

April 2022 Euler Institute, St Petersburg (canceled!!)

Main invited lectures (recent):

June 2004 Celestial Mechanics and Hamiltonian Systems
Tianjin University, China

June 2004 Summer School "Morse-theoretic
methods in Non-linear analysis and symplectic topology, NATO-
SMS, Montréal, Canada.

July 2004 French-Canadian Mathematical Conference
Toulouse.

Oct. 2004 Conference at the University of Bologna, Italy.

Oct. 2004 École Normale de Lyon "Équations de
Hamilton-Jacobi multi-temps et commutation de
Hamiltoniens C^0 "

Nov. 2004	Dynamics day of the Institut Fédératif de Jussieu.
Nov. 2004	Mathematical Seminar at ENS Lyon
Dec. 2004	Colloquium à l'occasion de la médaille de Bronze de V. Colin, Université de Nantes.
Jan. 2005	Conférence à l'Université de Strasbourg "Estimation des nombres caractéristiques d'une variété algébrique réelle".
April 2005	Université de Pise, Séminaire d'Analyse.
June 2005	Colloque d'Analyse Complexe, Luminy
July 2005	Conférences au PIMS, Vancouver, BC, Canada.
Jan. 2005	Conference in the memory of Anatolyi Vitushkin, Steklov Institute, Moscou
Oct. 2005	Colloquium at Université de Rennes.
Oct. 2005	Talk at the semestre on real Algebraic Geometry, Institut Henri Poincaré, Paris
Oct. 2005	Colloquium at Munich University (LMU).
May 2006	Conference Postech-Ecole polytechnique Pohang, Corée.
June 2006	Complex analysis, Luminy
Jan. 2007	Geometry Seminar, Université de Montpellier.
March 2007	Conference in the honour of J.-M. Bismut, Chern Institute, Nankai
April 2007	Conference on symplectic geometry, Clay Institute, Cambridge, USA
May 2007	Conference Calculus of Variations, Chern Institute, Nankai,
June 2007	Conference in the honour of Yasha Eliashberg, Stanford
July 2007	Conference on Symplectic geometry, Kyoto, Juillet 2007
Jan. 2007	Conference for ANR Symplexe, Lyon on Floer Homology.

Jan. 2007 Series of lectures on "Floer homology and complex geometry",
Rencontres de Géométrie et analyse complexe, Luminy.

Dec. 2007 Colloquium of the Mathematics department, Institut Fourier,
Grenoble

Dec. 2007 Colloquium of the Mathematics department, Université de
Bordeaux

May 2008 Floer theory and Symplectic dynamics, CRM, Montréal

May 2008 "Glimpses of Geometry", ENS Lyon

June 2008 Conference on Real Algebraic Geometry, Lausanne, Switzerland

Aug. 2008 Conference in the honour of Sandro Graffi, Bologna, Italie

May 2009 Symplectic Geometry and Physics, BICMR, Beijing, China

Mai 2009 "International Conference on Variational Methods" , Nankai University,
China

June 2009 New connections between dynamical systems and Hamiltonians PDE,
Maiori, Italy

June 2009 Journée Solstice, Chevaleret, Paris

June 2009 Differential Geometry Seminar, Montpellier, France

Oct. 2009 Geometry seminar, Avignon

Jan. 2010 Conference for Marc Chaperon's 60th birthday

March 2010 Symplectic Topology, Puzzles and Horizons, MSRI, Berkeley

March 2010 Colloquium lecture, Stanford University

Nov. 2010 Edi Zehnder 70th birthday, Zürich

Sept-Dec 2010 Graduate course "sheaf theory and symplectic topology", Princeton
University

Feb. 2011 Colloquium lecture, Courant Institute, NYU
Colloquium lecture Columbia University
Workshop on Symplectic Geometry and Topology, University of Kyoto,
Japan

Feb-Apr 2011 Eilenberg Lectures, Columbia University

May 2011 Colloquium lecture, Rutgers University
Georgia Topology conference

Oct. 2011 Arnold Memorial Conference, Edinburgh

Fev-Avr 2011 Eilenberg Lectures, Columbia University

May 2011 Colloquium lecture, Rutgers University, Georgia Topology conference

Octobre 2011 Arnold Memorial Conference, Edinburgh

Mars 2012 Colloque en l'honneur de Daniel Bénéquin, Paris

Juillet-Août 2012 Ecole d'été de l'Université Joseph Fourier de Grenoble (3 conférences)

Avril 2013 Exposé à l'occasion du Comité éditorial des Rendiconti del Seminario Matematico di Padova

Juin 2013 Conférence en l'honneur de Dietmar Salamon, ETH Zürich

Juillet 2013 Conférence en l'honneur de Nassif Ghoussoub, UBC, Vancouver, Canada

Septembre 2013 Conférence à l'IMPA, Rio de Janeiro, Brésil

Jan 20-24, 2014 C0-symplectic topology and dynamical systems, Pohang, Corée

Avril 2014 AIM Palo Alto : The Maslov index

Feb 2014 VIII Workshop on Symplectic Geometry, Contact Geometry, and Interactions., Lisboa, Portugal

Jan 2015 Conférence à l'Université de Shanghai et de Nanjing, Chine

June 2015 Moduli Spaces in Symplectic Topology and in Gauge Theory, CIRM Marseille

Sept. 2015 Lalonde Fest, Montréal

March 2016 Mini-Workshop on Symplectic Geometry, Utrecht University

Oct. 2016 Quantification des Lagrangiennes, Séminaire « J.-M. Bismut », Orsay

Nov. 2016 IAS, Princeton, Sheaf Quantization of Lagrangians

Dec. 2016 Talk at Rutgers University « Witten Laplacian and Barannikov complex »

Jan. 2017 Weak KAM, Last stop to Bordeaux, Bordeaux

- Feb. 2017 Homologie persistante et complexe de Barannikov (Paris-Nord)
- Mars 2017 Quantization of Lagrangians, ETH Zürich
- June 2017 Rectification du faisceau de Floer et quantification de Lagrangiennes, Séminaire Symplectix, IHP, PARIS
- July 2017 Dynamische Systeme, Oberwolfach
- Nov. 2017 Workshop on Hamiltonian systems in tribute to the memory of John Mather, Centro Frascini, Ascona
- Nov 2017 Géométrie symplectique à Lyon, Conference on the occasion of Sikorav's 60th birthday
- Avril 2018 Conférence en l'honneur de P. Schapira, IHP, Paris
- Nov. 2018 SC^0 -symplectic topology and dynamics. MSRI, Berkeley.
- Nov. 2019 « Persistence homology and applications to PDE and symplectic topology », Colloquium of the math department, UC Berkeley
- Dec. 2019 « Area preserving maps and barcodes » Northern California Symplectic seminar
- Feb.. 2019 Conférence of the Graduate Math Network, Kyoto, Japon.
- Mai 2019 SC^0 aspects of symplectic geometry and Hamiltonian dynamics, Haifa
- Juin 2019 Series of lectures for the conference : Algèbre homologique, analyse microlocale et géométrie symplectique, Université de Montréal
- Juin 2019 Interactions of Symplectic topology and dynamics, Cortona
- July 2021 Oberwolfach « γ -completion of the set of Lagrangian and γ -coisotropic sets in symplectic topology »
- Sept. 2021 Stochastic homogenization for Hamilton-Jacobi equations, Symplectix, Paris
- Nov. 2021 Grenoble Topology seminar « γ -completion of the set of Lagrangian and γ -coisotropic sets in symplectic topology »
- Feb 2022 Imperial College G&T seminar « γ -completion of the set of Lagrangian and γ -coisotropic sets in symplectic topology »
- May 2022 Seminar in Strasbourg
- May 2022 Zoominar (Montreal, Paris, Princeton, Tel-Aviv)

March 2022 « Ensembles γ -coisotropes en topologie symplectique » Séminaire Nantes-Orsay

June 2022 Two days in PDEs in heterogeneous and irregular structures, Rome

Janvier 2023 Séminaire de l'Université de Nantes

Janvier 2023 « Complété de Humilière et ensemble de Birkhoff », Séminaire de Géométrie et Topologie, Jussieu

April 2023 : « The completion of the space of Lagrangian submanifolds for the spectral metric », GNOSC (Gromov's seminar Not Only Scalar Curvature)

General audience talks

Nov. 2001 Colloque Histoire des géométries au 20ème siècle "L'indice de Maslov"

Octobre 2004: "Napoleone, la matematica e l'École polytechnique" on the occasion of the play "Napoleone Magico Imperatore" in Bologna

April 2005: "La rappresentazione della matematica nella letteratura francese del otto e novecento" (Représentation des mathématiques dans la littérature française des 19 et 20ème siècles) Scuola Normale Superiore di Pisa.

Nov. 2015 Journée en l'honneur de Laurent Schwartz, Ecole polytechnique, Palaiseau.

Nov. 2016 : Talk on the occasion of the naming of the department of mathematics of Padova University as « Dipartimento Tullio Levi-Civita »

Mai 2018 « Qu'est ce qui fait la beauté d'un théorème » Conférence au Colège de France dans le cadre de la journée « Le monde des mathématiciens », chaire de sociologie du travail créatif (P.-M. Menger)

Nov. 2018 « Matematica, bellezza e barzellette », Convegno : il punto di vista geometrico, Istituto Veneto, Venice, Italy

May 2024 MathEnVille, Grenoble « Des rectangles inscrits dans une courbe au principe d'incertitude : quelques applications de la topologie symplectique »

(Co)-Organized conferences and Seminars

Since 2000: Symplect'X Symplectic Geometry seminar at Ecole polytechnique and now at Institut Henri Poincaré

June 2005: Co-organizer of the Colloque de la Topologie à la Géométrie Symplectique, Nantes (in honour of F. Laudenbach)

Jan 2007- Co-organizer of the Workshop on Symplectic contact geometry and interactions (held in Lille 2007, Bruxelles 2008, Strasbourg 2009, Paris 2010)

July 2007 (with A. Fathi and Y.G. Oh)
Symplectic Topology and Measure-Preserving Dynamical Systems, Snowbird

June 2009 Summer School on Real algebraic and symplectic geometry, IHP, Paris.

Jan. 2010 Organizer of the Workshop on Symplectic contact geometry and interactions, 4th edition, IHP, Paris.

May 2011 Workshop at IAS, Sheaf theoretical methods in Symplectic topology (with H. Hofer).

Fall 2012 Etats de la Recherche, "Géométrie symplectique et de contact" Paris IHP, Oct. 2012

18-20 June 2014 Conférence pour les 70 ans d'Ivar Ekeland

Juin 2016 Analysis in the large, Helmut Hofer's 60th birthday, ETH Zürich (with T. Rivière et P. Biran)

July 2016 Summer School of the Institut Mathématique de Jussieu, « Symplectic topology, sheaves and mirror symmetry »

July 2018 Mathematical Summer in Paris (two weeks Summer school for students between 16 and 20 years old coming from more than 30 countries)

ANR projects:

2005-2008: Interactions et aspects énumératifs des géométries réelles, tropicales et symplectiques (GRTS)

2006-2008 Symplexe

2009-2012 ANR Floer Power

2016-2019 ANR « Microlocal » Sheaf theory and symplectic geometry

2021-2025 ANR COSY

PhD Students:

Nabil Sioufi: Thèse “ Horizons et capacités symplectiques associés à des ouverts non bornés ou à des classes d'homotopie ” March 1994

David Th  ret: “Utilisation des fonctions g  n  ratrices en g  ometrie symplectique globale ” Jan. 96

David Hermann: “ Homologie symplectique et   paisseur de Gromov ”, Jan. 1998

Alexandru Oancea: “ In  galit  s isop  rim  triques ”, Jan. 2003

Anne-Laure Biolley: “ Homologie de Floer et hyperbolicit   complexe ”, Dec. 2003

Vincent Humili  re: "Notions de Convergence et capacit   symplectique", July 2008

Beno  t Tonnelier: "Vari  t  s coisotropes en g  ometrie symplectique-Quasi-  tats", June 2010

Nicolas Vichery: "G  n  ralisations et   tude de l'Homog  n  sation symplectique" Jan. 2013

Jaime Bustillo : « Hamiltonian PDE and symplectic topology », Juillet 2018

Yusuke Kawamoto (co directed with S. Seyfaddini) : Metric properties of the group of Hamiltonian diffeomorphisms July 2021

Daniel Perez : (co-director, Pierre Pansu) « Barcodes and probability » July 2022

Bingyu Zhang : (co director S. Guillermou) « Sheaf theory and symplectic topology » to be defended in September 2022

Julio Sampietro : « Equivariant Floer cohomology » 2022-

Jianquiao Shang (co-directed with F. Bourgeois):