

Curriculum Vitae

Peter Constantin

Education

B.A.: University of Bucharest, Faculty of Mathematics and Mechanics, 1974.

M.A. (summa cum laude): University of Bucharest, Faculty of Mathematics and Mechanics 1975.

Ph. D. : The Hebrew University of Jerusalem, 1981.

Advisor: Shmuel Agmon, The Hebrew University of Jerusalem.

Appointments

Assistant Professor, The University of Chicago, 1985–1988.

Professor of Mathematics, The University of Chicago, 1988–2005.

Louis Block Professor, The University of Chicago, 2005–2009.

Louis Block Distinguished Service Professor, The University of Chicago, 2009-2011.

Chair, Department of Mathematics, The University of Chicago, 2007-2011.

William R. Kenan, Jr. Professor of Mathematics and Applied and Computational Mathematics, Princeton University, since 2011.

Director, Program in Applied and Computational Mathematics, Princeton University, starting February 1, 2012.

Students

Mathematics: M. Pugh, S. Resnik, J. Wu, C. Hallstrom, M. Kratka, A. Oberman, B. Winn, G. Iyer, A. Zarnescu.

Physics (committee member): G. Vasconcelos, J. Wang, E. Grossman, M. Mungan, N. Schoerghofer, S. Wunsch, I. Seggev.

Foreign: (exchange, or long visit): C. Royo (France), F. Ramos (Brazil).

Postdoctoral associates

A. Bertozzi, M. Brenner, A. Cheskidov, D. Cordoba, P. Gordon, F. Gancedo, A. Kiselev, I. Kukavica, E. Kirr, M. Lewicka, L. Mahadevan, Q. Nie, V. Putkaradze, L. Ryzhik, A. Schenkel, L. Silvestre, W. Sun, E. Titi, S. Venkataramani, V. Vicol, A. Zlatos.

Honors

Alfred P. Sloan Research Fellow, 1986–1990.
Fellow of the Institute of Physics, London (2004).
ISI Highly Cited
SIAM Fellow (2010)
Fellow of the American Academy of Arts and Sciences (2010).

Congress Talks

International Congress of Mathematical Physics, Paris, 1994.
International Congress of Mathematicians, Zurich, 1994.
International Congress of Industrial and Applied Mathematics, Edinburgh 1999.

Lectures

AMS Invited Plenary Address, Denton, 1990, Equadiff '93 Bratislava, Gran' Finale, Como 1993, LMS/IOP, London 1993, The Institute Seminar, Newton Institute, Cambridge, 1995, Dynamical Systems and PDE, Hangzhou, China, 1996, Snowbird, Utah, 1997, Barenblatt 70, Rome Italy, 1997, Kraichnan 70, Santa Fe, 1998, Dynamics Days, Atlanta, 1999, The Institute Seminar, Newton Institute, Cambridge, 1999, IUTAM Symposium, Hayama (Japan), 1999, Julian Cole - Margaret Darrin Memorial Lecture, RPI, 2000, UNM-Los Alamos Distinguished Lecture Series, March 2000, Frontiers in Mathematics, distinguished lecture series, Texas A&M, 2000, Joint AMS-SMF meeting Lyon (France), July 2001, IUTAM symposium, Zakopane (Poland), September 2001, RIMS Colloquium, Kyoto (Japan), October 2001, Academia Sinica Colloquium (Beijing) December 2001, Euler and Navier-Stokes symposium, (main lecturer, 3 lectures) Shanghai, December 2001, George Batchelor Lecture, DAMTP, Cambridge (UK), May 2002, Laboratoire Jacques-Louis Lions, Paris, October 2002, CIME Lectures, Martina Franca, September 2003, Kolmogorov School, Trieste, September 2003, Slemrod Conference, Madison, April 2004, AIM Conference, Pomona, June 2004, Brezis Conference, Paris, June 2004, Weizmann Multiscale, Rehovot, July 2004, CIM Lectures, Lisbon July 2004, Istanbul, September 2004, IUTAM Symposium, Kyoto, October 2004. IGERT distinguished lectures, Columbia, March 2005. MRC, Montreal, May 2005. Los Alamos, NM, July 2005. MSRI, Berkeley, September 2005. Warwick University, Coventry UK, September 2005. Paul Sabatier University, Toulouse, May 2005. Yale University, November 2005. Penn State, December 2005. Basilfest, Los Alamos, January 2006. Pauli Institute, Vienna March 2006. University of Maryland, April 2006. Vanderbilt, April 2006. Brown, April 2006. SIAM Annual Meeting, Boston, July

2006. Ecole Polytechnique Federale de Lausanne, July 2006. IWNET 2006, Rhodes, Greece, September 2006. CSCAMM Maryland, October 2006. AMS Sectional Meeting, Arkansas, Nov. 2006. Agmon 85, Jerusalem, January 2007. Euler Symposium, Sungkyunkwan University, Suwon (Korea), May 2007. Euler Symposium, Euler institute St. Petersburg (Russia) May 2007. Euler Symposium, Aussois (France), June 2007. D2H Fest, Lausanne, July 2007. Saut Fest (Paris), September 2007. Dupont Fest (Chicago) September 2007. Trinity College, Dublin, October 2007. Midwest PDE Seminar, Chicago, November 2007. Washington University, St. Louis, February 2008. Collège de France, Paris, March 2008. Florida State University, Tallahassee, March 2008. Bloomington, Indiana, April 2008. Kavli Institute Beijing, May 2008. ICPAM Beijing, May 2008. Peking University, Beijing, May 2008. Mathematics Institute, Chinese Academy of Science, Beijing, May 2008. SIAM Annual Meeting, San Diego, July 2008. IMA Singularities, Minneapolis, July 2008. UF Rio de Janeiro, August 08. Scuola Normale Superiore, Pisa, September 2008. Oxford University, Oxford, October 2008. Isaac Newton Institute, Cambridge, October 2008. Kyoto University, November 2008. U. Texas, Blumberg Lecture, March 2009. Exeter, UK, March 2009. AIM Workshop, Palo Alto, April 2009. Ch. Fefferman Fest, Princeton, May 2009. J. Gibbon Fest, Imperial College London, May 2009. A. Majda Fest, Courant Institute New York, May 2009. Institut Henri Poincaré, Paris, June 2009. Oberwolfach, July 2009. PIMS, Vancouver, August 2009. IMA Complex Fluids, October 2009, AMS Regional, Waco Texas, October 2009, Darmstadt, October 2009. Northwestern, March 2010. Warwick, July 2010. Weizmann Institute, Rehovot, July 2010. CIME Lectures, Cetraro, September 2010. ICMS, Edinburgh, September 2010. Princeton, October 2010. ICMAT, Madrid, November 2010. AMS, New Orleans, January 2011. Aziz Lecture, UMD, February 2011. USC, February 2011. University of Houston, March 2011. Georgia Tech, March 2011. Levermore 60, Madison Wisconsin, May 2011. Berestycki 60, Paris, June 2011. SISSA, Trieste, July 2011. Levico Terme, September 2011. SIAM, San Diego, November 2011.

Visits and Visiting Appointments

Courant Institute of Mathematical Sciences (New York), Mathematical Sciences Research Institute (Berkeley), Max–Planck–Institut (Bonn), The Institute for Advanced Study (Princeton), The Weizmann Institute of Science (Rehovot), Université de Paris–Sud, Institut Mittag–Leffler (Djursholm), Isaac Newton Institute for Mathematical Sciences, (Cambridge), École Nor-

male Supérieure, (Paris), IHES, (Bures-sur-Yvette), RIMS (Kyoto), Schrödinger Institute (Vienna), Pauli Institute, (Vienna), Bernoulli Institute (Lausanne), Institut Henri Poincaré (Paris).

Professional Activities

Nonlinearity, (1992 -1998 editorial board member, Editor-in-Chief 1998-2004), AMS Proceedings of Symposia in Applied Mathematics (chairman, 1993-2004), SIAM Journal on Applied Mathematics, (1996-1998), Journal of Statistical Physics, (1997-1999), Mathematical Physics Electronic Journal, (from 1995), Communications in Mathematical Physics, (from 2000), Journal of Turbulence, (from 2003), Collaborator, Los Alamos National Laboratories, (1985-2000), Midwest PDE Seminar, The University of Chicago, (organizer, 1992), Isaac Newton Institute for Mathematical Sciences, University of Cambridge, half-year program (co-organizer, 1995), SIAM Minisymposium, Snowbird, Utah (co-organizer, 1999), IUTAM Symposium, Japan, (co-organizer, 1999), Institute for Theoretical Physics, Santa Barbara, half-year program, (co-organizer, 2000), Oberwolfach meeting (co-organizer, 2000), International Congress of Mathematical Physics, London, (PDE session co-organizer, 2000) Midwest PDE Seminar, Univ. of Chicago (organizer, 2000), Visiting Review Committee, Georgia Institute of Technology, (member, October 2000), Summer school on fluid mechanics, UIMP, Santander (Spain) Director, August 2002), SIAM Minisymposium on PDE, Snowbird, May 2003, co-organizer, SIAG Dynamical Systems, advisory board 2001-03, Instructional Conference on Mathematical Analysis of Hydrodynamics, Edinburgh, June 2003, co-organizer, Visiting Review Committee, University of Toronto (December 2004), Banff Workshop, March 2006, co-organizer, Visiting Review Committee, University of Virginia, September 2006, AIM workshop 2009, co-organizer, IMA 2009-2010 special year in complex fluids, co-organizer. AMS Bocher prize committee, 2007-8. Visiting review committee, UCLA, 2010. AMS Steele Prize committee, 2009-11. NSF and DOE panels, various years. Member of American Mathematical Society, American Physical Society, Society for Industrial and Applied Mathematics.

Publications

140 papers, 2 books.

Current Funding Agencies

NSF