Walter Craig - CV 2017

Department of Mathematics and Statistics 22 Inglewood Drive
McMaster University Hamilton, Ontario L8S 2T4, Canada
Hamilton, Ontario, L8S 4K1, Canada 905.521.1352
905.525.9140 x23422

Date of Birth: November 28, 1953
Spouse: Deirdre Haskell, Professor of Mathematics, McMaster University,

Fields of Research:
nonlinear partial differential equations, Hamiltonian dynamical systems, fluid dynamics, quantum mechanics

Education:
A.B. in Mathematics, June 1977
   University of California, Berkeley
M.S. in Mathematics, June 1979
Ph.D. in Mathematics, June 1981
   Courant Institute of Mathematical Sciences, New York University

Employment:
07/2000 – present: Professor and Canada Research Chair of Mathematical Analysis
   and its Applications
   McMaster University
   Department of Mathematics & Statistics
   Hamilton, Ontario L8S 4K1, Canada
   Distinguished University Professor, June 2016 – present.
07/2013 – 06/2015: Director
   The Fields Institute
   222 College Street, Toronto, Ontario M5T 3J1, Canada

   Department of Mathematics
   Providence, Rhode Island 02912
   Associate Professor, Sept. 1988 – June 1991
   Professor, July 1991 – June 2000
   Department Chair, July 1997 – June 2000

09/1984 – 08/1988: Assistant Professor
   Stanford University
   Department of Mathematics
   Stanford, California 94305

09/1981 – 08/1984: California Institute of Technology
   Department of Mathematics
   Pasadena, California 91125
09/1978 – 06/1981: Courant Institute  
New York University  
New York 10012  
Teaching Assistant  
Research Assistant in numerical analysis

**Honors:**

1983: Bantrell Fellowship  
1988: Alfred P. Sloan Fellowship  
1988 – 1993: NSF Presidential Young Investigator  
2005: Fellow, Fields Institute  
2007: Fellow, Royal Society of Canada  
2008: Fellow, American Association for the Advancement of Science  
2009 – 2011: Killam Research Fellowship  
2013: Fellow, American Mathematical Society

**Professional service:**

Editorial Boards (current):  
- Communications in Contemporary Mathematics; 2006 - present.  
- Complex Analysis and its Synergies; 2014 - present.  
- Electronic Research Announcements in Mathematical Sciences;  
- Fields Institute, Editorial Board; 2001 - present.  
- Mathematical Reports of the Royal Society of Canada; 2008 - present.  
- Mathematical Surveys and Monographs, AMS; February 1 2018 - January 31 2022.  
- Nonlinear Differential Equations and Applications; 2008 - present.

Editorial Boards (past):  

American Mathematical Society:  
- Member, Editorial Boards Committee; 2013 - 2016.  
- Member of the Executive Committee; 2003 - 2006.  
- Member at Large of Council; 2000 - 2003.  
- Member of the Committee on Committees; 2003 - 2005.

American Association for the Advancement of Science:  
- Member 1985 - present  
- Member of the Steering Group, AAAS Section on Mathematics (A); 2004 - 2008.

Fields Institute, Toronto:
Nominations Committee; 2001 - 2005.
Board of Directors; 2009-2012, 2015-2016.

Centre de Recherches Mathématiques, Montréal:
Comité Consultatif; 2001 - 2005.

Pacific Institute for the Mathematical Sciences, Vancouver:

Origins Institute:
Steering Committee; 2004 - 2013.
Advisory Council; 2013 - present.

Mathematics of Planet Earth: Joint Initiative of North American Mathematics Institutes,
Scientific Committee member.

Canada Research Chairs Program: member, College of Reviewers.
EPSRC (Great Britain): member, Peer Review College, 2006-2012.

Visiting professorships:
07/00 - present: Fields Institute, visiting member
02/17 - 05/17: University of California - Berkeley, Visiting Scholar.
10/16 - 12/16: Courant Institute of Mathematical Sciences - New York, NY, Visiting Scholar.
05/16 - 06/16: Institut des Hautes Études Scientifiques – Bures sur Yvette, France
02/10: Ecole Normale Supérieure - Paris, France.
09/09 - 06/10: Université de Paris 7, France.
06/09: Université Cergy - Pontoise, France.
08/07: Jilin University, Changchun, China
05/07: Université Paul Sabatier - Toulouse, visiting professor
03/03 - 07/03: Université de Paris - Sud, Orsay, CNRS poste rouge
01/03 - 03/03: CEREMADE, Université de Paris - Dauphine, CNRS poste rouge
07/02 - 12/02: Mathematical Sciences Research Institute - Berkeley, member
12/99 – 01/00: Institute of Mathematical Sciences, Chennai, India
05/99 – 06/99: International Centre for Mathematical Sciences, Edinburgh Scotland
06/98 – 07/98: ETH - Forschungsinstitut für Mathematik, Zürich, Switzerland
01/96 – 07/96: Institut des Hautes Études Scientifiques – Bures sur Yvette, France
08/95 – 12/95: CMLA, Ecole Normale Supérieure – Cachan, France
06/93: Department of Mathematics, Imperial College, London
01/91 – 12/91: Mathematical Institute, Oxford University
06/90: Département de Mathématique, Université de Paris 6, France
06/89: Laboratoire d’Analyse Numérique, Université de Paris–Sud, Orsay, France
03/88 – 08/88: Sonderforschungsbereich 256, Universität Bonn, West Germany
12/85: Department of Physics, Technion - Israel Institute of Technology, Haifa, Israel
08/84 – 10/84: Ecole Normale Supérieure – rue d’Ulm, Paris, France
10/84 – 12/84: ETH - Forschungsinstitut für Mathematik, Zürich, Switzerland
08/1981: Universidad Technica F. Santa Maria, Valparaiso, Chile

General Activities and Interests:
musician (contrabassist); mountaineering; molecular biology
Publications:


[81] “Global regular solutions to the Boltzmann equation in one space dimension” (with A. Biryuk and V. Panferov), manuscript for Inventiones Math. (2009).

[82] “Lagrangian invariant tori for infinite dimensional lattice Schrödinger equations” (with J. Geng), manuscript (second revision) for Inventiones Math. (2009).


“Bloch decomposition and spectral gaps for the linearized water wave system”, (with M. Gazeau, Ch. Lacave and C. Sulem), manuscript (2016) 22pp.
