

CURRICULUM VITAE

NAME AND ADDRESS: Niky Kamran

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BIRTH: May 22, 1959, in Brussels, Belgium.

CITIZENSHIP: Canadian and Belgian.

DEGREES: Ph.D. (Mathematics), 1984, University of Waterloo.
Lic. sc. math., 1980, Université Libre de Bruxelles.

ACADEMIC POSITIONS:

Faculty and/or research positions:

2003 to present	James McGill Professor, McGill University, Department of Mathematics and Statistics.
1995 to present	Full Professor, McGill University, Department of Mathematics and Statistics.
1989-94	Associate Professor (NSERC University Research Fellow), McGill University, Department of Mathematics and Statistics.
1987-88	Member, Institute for Advanced Study, Princeton, School of Mathematics.
1986-89	Assistant Professor (NSERC University Research Fellow), University of Waterloo, Department of Applied Mathematics.
1984-86	Research Associate (NSERC Post-doctoral Fellow), CRM, Université de Montréal.

AWARDS and

FELLOWSHIPS: Killam Fellow, Canada Council for the Arts, 2006-2008.

James McGill Professor, 2003.

This is the equivalent to a Tier I Canada Research Chair in McGill's internal mirror program of Research Chairs.

Fellow of the Royal Society of Canada, Academy of Science, 2002.

First Recipient of the André Aisenstadt Prize in Mathematics, 1992.

Laureate of the Royal Academy of Sciences of Belgium, was awarded the Academy's 1988 Prize in Mathematics for a research memoir submitted for Academy's 1988 Competition.

NSERC University Research Fellow, 1986-94.

NSERC Post-doctoral Fellow, 1984-86.

Ph.D. Gold Medalist, University of Waterloo, 1984.

INVITED LECTURES:

2009 Joint Meeting of the Canadian and Mexican Mathematical Societies, plenary lecture, Vancouver, Canada.

Integrable systems and quantum symmetries XVIII, plenary lecture, Prague, Czech Republic.

Connections in Geometry and Physics conference, the Perimeter Institute, Waterloo, Canada.

AMS Spring Southeastern Section Meeting, Session on Geometry of Differential Equations, Raleigh, USA.

Joint AMS-MAA Mathematics Meetings, Session on Conformal Geometry, Twistor Theory, and Integrable Systems, Washington DC, USA.

2008 The Abel Symposium 2008, Differential equations: symmetries and integrability, Tromsø, Norway.

Geometry/topology seminar, Duke University, Durham, USA.

Exterior differential systems and the method of equivalence, MSRI, Berkeley, USA

Colloquium lecture, Mathematics Department, Queen's University, Kingston, Canada.

Second Canada-France Mathematics Congress, session on geometric analysis, Montréal, Canada.

- 2007 Colloquium lecture, Mathematics Department, University of Western Ontario, London, Canada.
- Mathematical physics seminar, Université de Lille, Lille, France.
- Non-linear evolution equations and dynamical systems (NEEDS 2007), L'Ametlla de Mar, Spain.
- Mini-symposium on the calculus of variations in geometry, physics and economics, Fields Institute, Toronto, Canada.
- 2006 ICM Satellite Conference on Advances in Partial Differential Equations and Geometry, Madrid, Spain.
- Analysis seminar, Universität Regensburg, Regensburg, Germany
- Colloquium lecture, Mathematics Department, University of Western Ontario, London, Canada.
- 2005 Colloquium lecture, Mathematics Department, McMaster University, Hamilton, Canada.
- Colloquium lecture, Universität Regensburg, Mathematics Department.
- Great Lakes Topology Conference, Perimeter Institute, Waterloo, Canada.
- 2004 Winter meeting of the Canadian Mathematical Society, Montréal, Canada (2 lectures).
- XI International conference on symmetry methods in physics, Prague, Czech Republic.
- Workshop on General Relativity, Morningside Institute, Beijing, China (3 lectures).
- Symmetry and Perturbation Theory Conference (SPT 2004), Cala Gonone, Sardinia, Italy.
- Analysis seminar, Universität Regensburg, Regensburg, Germany.
- Workshop on nonlinear wave equations, Fields Institute, Toronto, Canada.
- Young mathematicians conference in PDEs and dynamical systems, Fields Institute, Toronto, Canada.
- Miami waves 2004 conference, University of Miami, Coral Gables, USA
- 2003 Colloquium lecture, Mathematics Department, Purdue University, West Lafayette, USA.
- Workshop on the differential geometry of differential equations, University of Pittsburgh, Pittsburgh, USA.

- Annual meeting of SIAM, session on pricing and stochastic differential equations, Montreal, Canada.
- 2002 Invited Plenary Address, American Mathematical Society Meeting, North-eastern Section, Montréal, Canada.
- Regional meeting of the American Mathematical Society, session on geometrical methods for differential equations, Madison, USA.
- Winter meeting of the Canadian Mathematical Society, Ottawa, Canada.
- Analysis seminar, Instituto Superior Tecnico, Lisbon, Portugal.
- Partial differential equations seminar Universität Regensburg, Regensburg, Germany.
- Joint International meeting between the American Mathematical Society and the Unione Matematica Italiana, session on Advances in Differential Geometry of PDE and applications, Pisa, Italy.
- Sectional meeting of the American Mathematical Society, session on Geometrical Methods in Differential Equations, Madison, USA.
- Superintegrability in classical and quantum systems, CRM, Université de Montréal, Montréal, Canada.
- XIth Oporto Meeting on geometry, topology and physics, a series of three one-hour lectures, Oporto, Portugal.
- Joint Colloquium, Pure and Applied Mathematics Departments, University of Waterloo, Waterloo, Canada.
- FRSC Day for the Mathematical Sciences, Fields Institute, Toronto, Canada.
- 2001 Colloquium lecture, Mathematics Department, University of Pittsburgh, Pittsburgh, USA.
- Applied Mathematics Colloquium, Fields Institute, Toronto, Canada.
- Université de Sherbrooke, plenary talk at the Colloque des mathématiciens du Québec.
- 2000 CBMS-NSF Lectures on the geometry of differential equations, a series of ten one-hour lectures, Washington D.C., USA.
- Colloquium lecture, Mathematics Department, University of Connecticut, Storrs, USA.
- Workshop on computational and algebraic analysis, MSRI, Berkeley, USA.
- Partial differential equations seminar, University of Michigan, Ann Arbor, USA.
- 1999 Robert B. Gardner memorial conference, Chapel Hill, North Carolina, USA.

Colloquium lecture, Colloque de mathématiques de Montréal, Montréal, Canada.

Colloquium lecture, MIT, Mathematics Department, joint colloquium (Brandeis-Harvard-MIT-Northeastern), Cambridge, USA

Analysis seminar Max Planck Institute for mathematics in the sciences, Leipzig, Germany.

Applied Mathematics seminar, Imperial College, London, UK.

Non-linear evolution equations and dynamical systems, Kolymbary, Crete.

Workshop on Bäcklund and Darboux Transformations: The Geometry of Soliton Theory, Halifax, Canada.

Winter meeting of the Canadian Mathematical Society, Montréal, Canada.

First China-Canada Mathematical Sciences Congress, Tsinghua University, Beijing, China.

Summer meeting of the Canadian Mathematical Society, St. John's, Canada.

1998 Differential geometry seminar, Universidade de Brasilia, Brasilia, Brasil.

Symbolic Computation seminar, GMD Research Institute, Sankt Augustin, Germany.

Integrable systems: solutions and transformations, Guardamar, Spain

Colloquium lecture, Mathematics Department, Howard University, Washington DC, USA.

Colloquium lecture, Mathematics Department, University of Western Ontario, London, Canada.

Colloquium lecture, Mathematics Department, University of British Columbia, Vancouver, Canada.

Colloquium lecture, Mathematics Department, Simon Fraser University, Burnaby, Canada.

1997 Analysis on infinite-dimensional Lie algebras and groups, CIRM, Luminy, France.

IMACS 97 Conference, session on computer algebra methods in integration and analysis of ordinary differential equations, Maui, USA.

Regional meeting of the American Mathematical Society, Corvallis, USA.

Secondary calculus and cohomological physics, Moscow State University, Moscow, Russia.

Algebraic methods and theoretical physics, CRM, Université de Montréal, Montréal, Canada.

- Colloquium lecture, Mathematics Department, Queen's University, Kingston, Canada.
- Colloquium lecture, Mathematics Department, University of Arizona, Tucson, USA.
- Colloquium lecture, Mathematics Department, Dalhousie University, Halifax, Canada.
- Colloquium lecture, Mathematics Department, University of Toronto, Toronto, Canada.
- Partial differential equations seminar, University of Arizona, Tucson, USA.
- Partial differential equations seminar, Dalhousie University, Halifax, Canada.
- 1996 Harmonic analysis and number theory (the Carl Herz memorial conference), McGill University, Montréal, Canada.
- International colloquium on group-theoretical methods in physics, Goslar, Germany.
- Workshop on algebraic approaches to quantum dynamics, Fields Institute, Toronto, Canada.
- Differential systems seminar, University of Toronto, Toronto, Canada.
- Differential geometry seminar, McMaster University, Hamilton, Canada.
- Differential geometry seminar, Université Libre de Bruxelles, Brussels, Belgium.
- Differential geometry seminar, Universidade de Brasilia, Brasilia, Brazil.
- Topics in geometry seminar, University of Toronto, Toronto, Canada.
- Partial differential equations seminar, University of Waterloo, Waterloo, Canada.
- 1995 Workshop on geometry and differential equations, two one-hour lectures, Canberra, Australia.
- Colloquium lecture, Mathematics Department, University of British Columbia, Vancouver, Canada.
- Colloquium lecture, Theoretical Physics II Department, Universidad Complutense, Madrid, Spain.
- Colloquium lecture, Mathematics Department, University of Hawaii, Manoa, USA.
- Partial differential equations seminar, University of British Columbia, Vancouver, Canada.

- Colloquium lecture, Mathematics Department, Waikato University, Hamilton, New Zealand.
- Joint meeting of the American, Canadian and Mexican Physical Societies, session on theoretical physics, Québec, Canada.
- 1994 Workshop on exterior differential systems, CRM, Montréal, Canada.
- Mathematical physics seminar, niversity of Minnesota, School of Mathematics, Minneapolis, USA.
- Differential geometry seminar, Universidade de Brasilia, Brasilia, Brasil.
- Mathematical physics seminar, Université Libre de Bruxelles, Brussels, Belgium.
- Invited plenary address at the Colloque des mathématiciens du Québec, Université de Montréal, Montréal, Canada.
- Workshop on exterior differential systems, MSRI, Berkeley, USA.
- Winter meeting of the Canadian Mathematical Society, session on dynamical systems, Montréal, Canada.
- 1993 Symposium on geometric and algebraic structures of differential equations, Twente University, Enschede, Holland.
- Annual meeting of the American Mathematical Society, session on differential geometry, San Antonio, USA.
- Partial differential equations seminar, University of Maryland, College Park, USA.
- 1992 Distinguished lectures in nonlinear mathematics, four one-hour lectures, Los Alamos National Laboratory and University of New Mexico, USA.
- Colloquium lecture, Mathematics Department, Los Alamos National Laboratory, Center for Nonlinear Studies, Los Alamos, USA.
- Colloquium lecture, Mathematics Department, University of New Mexico, Albuquerque, USA.
- West Coast Workshop on symmetries of differential equations, two one-hour lectures, University of British Columbia, Vancouver, Canada.
- International colloquium on group-theoretical methods in physics, Salamanca, Spain.
- 1991 Symposium on differential equations, Gregynog, Wales, UK.
- Differential geometry seminar, Universidade de Brasilia, Brasilia, Brazil.
- Colloquium lecture, Applied Mathematics Department, University of Waterloo, Waterloo, Canada.

- 1990 NATO Advanced Institute on Painlevé transcendents, Sainte-Adèle, Canada.
 Summer meeting of the Canadian Mathematical Society, Halifax, Canada.
 Differential equations seminar, Université de Strasbourg, Stasbourg, France.
 Differential geometry seminar, Universidade de Brasilia, Brasilia, Brazil.
 Colloquium lecture, Mathematics Department, Universidade de Brasilia, Brasilia, Brazil.
- 1989 Lie theory, differential equations and representation theory, Annual Seminar of the Canadian Mathematical Society, CRM, Montréal, Canada.
 McGill University, Department of Mathematics and Statistics, Montréal Mathematics Colloquium.
 Applied mathematics seminar, University of Alberta, Edmonton, Alberta.
- 1988 Computer algebra and differential equations, two one-hour lectures, Grenoble, France.
 Symmetries and nonlinear phenomena, International School on applied mathematics, Paipa, Colombia
 Analysis seminar, University of Pennsylvania, Philadelphia, USA.
 Differential geometry seminar, Columbia University, New York, USA.
- 1987 Colloquium lecture, Mathematics Department, University of South Carolina, Columbia, USA.
 IBM Mathematical Sciences Symposium on computer integration of differential equations, IBM T.J. Watson Center, Yorktown Heights, USA.
 Conference on symmetry methods for differential equations, Utah State University, Logan, USA.
 Second Canadian conference on general relativity and relativistic astrophysics, University of Toronto, Canada.
 Rutgers University, differential algebra seminar, Brunswick, USA.
 Equivalence problems seminar, University of North Carolina, Chapel Hill, USA.
 Mathematical physics seminar, Université de Montréal, Montréal, Canada.
- 1986 Colloquium lecture, School of Mathematics, University of Minnesota, Minneapolis, USA.
 Colloquium lecture, Mathematics Department, Dalhousie University, Halifax, Canada.
 Colloquium lecture, Mathematics Department, University of Saskatchewan, Saskatoon, Canada.

- Mathematical physics seminar, University of Minnesota, Minneapolis, USA.
- Colloquium lecture, Mathematics Department, Memorial University, St John's, Canada.
- Infinite-dimensional Lie algebras and their applications, CRM, Montréal, Canada.
- NSF Conference on differential geometry, San Antonio, USA.
- Annual meeting of the American Mathematical Society, session on the Cartan Equivalence Problem, New Orleans, USA.
- 1985 Field theory, quantum gravity and strings seminar, Université de Paris VII-Observatoire de Paris-Meudon, Paris, France.
- Relativity seminar, Clarkson University, Potsdam, USA.
- Workshop on nonlinear evolution equations, Lecce, Italy.
- Colloquium lecture, Mathematics Department, University of Alberta, Edmonton, Canada.
- Colloquium lecture, Mathematics Department, Université Laval, Québec, Canada.
- Colloquium lecture, Mathematics Department, Université du Québec à Montréal, Montréal, Canada.
- 1984 Relativity seminar, Observatoire de Paris-Meudon, Paris, France.
- 1983 Sectional meeting of the American Mathematical Society, San Luis Obispo, California, session on geometrical methods for differential equations.
- 1982 Relativity seminar, University of Pittsburgh, Pittsburgh, USA.