

Rahim Nazim Moosa

University of Waterloo, Department of Pure Mathematics, 200 University Ave. W., MC 5049
Waterloo, Ontario, N2L 3G1 (519) 888-4567 ext. 32453 Fax: (519) 725-0160

Born in Toronto, Canada, on the 17th of February, 1973.

Education

Ph.D. in Mathematics University of Illinois at Urbana-Champaign, 2001
Thesis: *Contributions to the Model Theory of Fields and Compact Complex Spaces*
Advisor: Anand Pillay

B.Arts Sc. (Hons.) in Arts and Science and Mathematics McMaster University, 1996

Academic Positions

Associate Professor *July 2009 – present*
University of Waterloo

Assistant Professor *July 2004 – June 2009*
University of Waterloo

CLE Moore Instructor *July 2002 – June 2004*
Massachusetts Institute of Technology

NSERC Postdoctoral Fellow *July 2001 – June 2002*
The Fields Institute, Toronto

Visiting Assistant Professor *August 2001 – May 2002*
University of California at Berkeley

Service

Organising Committees

Contemporary Model Theory Session, CMS-MITACS Joint Conference, Winnipeg 2007.
Greater Boston Logic Conference, MIT 2003.

Program Committees

Association for Symbolic Logic Annual Meeting, Notre Dame 2009.

Departmental Committees, University of Waterloo

Department Advisory Committee for Appointments *2009 – present*

Scholarships Committee *2008 – present*

Graduate Committee *2005 – 2008*

Library Representative *2004 – 2007*

Invited Workshop Participation

- Mathematisches Forschungsinstitut** Oberwolfach, Germany *Scheduled January 3–9, 2010*
 Around Valued Fields and Dependent Theories
- London Mathematical Society Durham Symposium** *July 20–30, 2009*
 Durham University, United Kingdom
 New Directions in the Model Theory of Fields
- Banff International Research Station** Banff, Alberta *February 8–13, 2009*
 Stability Theoretic Methods in Unstable Theories
- Centre International de Rencontres Mathématiques** Luminy, France *Nov. 12–16, 2007*
 MODNET workshop on Model Theory of Fields
- Mathematisches Forschungsinstitut** Oberwolfach, Germany *Jan. 14–20, 2007*
 Model Theory and Groups
- Isaac Newton Institute** Cambridge, United Kingdom *May 15 – July 15, 2005*
 Model Theory and Applications to Algebra and Analysis
- Mathematisches Forschungsinstitut** Oberwolfach, Germany *July 18–24, 2004*
 Model Theory and Complex Analytic Geometry
- Banff International Research Station** Banff, Alberta *March 13–18, 2004*
 Interactions between Model Theory and Geometry

Invited Talks

- Model Theory Conference** Seoul, South Korea *Scheduled May 2010*
 Yonsei University
- CUNY Logic Workshop** New York *October 2009*
 “Canonical bases, jets, and the Zilber dichotomy”
- Kolchin Seminar in Differential Algebra** New York *October 2009*
 “Differential Arcs and the infinite-dimensional Zilber dichotomy”
- New Directions in the Model Theory of Fields** Durham, United Kingdom *July 2009*
 London Mathematical Society Durham Symposium
 “Generalised Hasse varieties”
- Urbana in Lyon** Lyon, France *July 2009*
- Second Canada-France Congress** Montreal *June 2008*
 Session on Model Theory and Applications to Geometry
 “An essentially saturated space not of Kähler-type”
- Antalya Algebra Days** Antalya, Turkey *May 2008*
 “Generalised Hasse varieties and jets”
- MODNET Workshop on Model Theory of Fields** Luminy, France *November 2007*
 Centre International de Rencontres Mathématiques
 “A consequence of the canonical base property”
- MODNET Training Workshop** Humboldt-Universität, Berlin, Germany *September 2007*
 “Applications of model theory of fields: Zilber dichotomy and Mordell-Lang”

- Model Theory and its Applications** (CMS-MITACS Conference) Winnipeg *June 2007*
 “A consequence of the canonical base property”
- Differential Fields Workshop** University of Leeds, United Kingdom *June 2007*
 “Hasse schemes and jets”
- Model Theory and Groups** Oberwolfach, Germany *January 2007*
 “Division points on isotrivial semiabelian varieties”
- Dept. of Math. Colloquium** University of Western Ontario, London *November 2006*
 “Model theory and Kähler Geometry”
- Greater Boston Logic Conference** MIT, United States *May 2006*
 “Strongly minimal groups in the theory of compact complex spaces”
- Around o-minimality** University of Leeds, United Kingdom *March 2006*
 “Complex manifolds in CCM versus \mathbb{R}_{an} ”
- Dept. of Math. and Stat. Colloquium** McMaster University, Hamilton *February 2006*
 “Model Theory and Complex Analytic Geometry”
- Model Theory, Algebraic and Analytic Geometry** Cambridge, United Kingdom *July 2005*
 Isaac Newton Institute
 “Strongly minimal groups in the theory of compact complex spaces”
- Model Theory and Complex Analytic Geometry** Oberwolfach, Germany *July 2004*
 “Model-theoretic analysis in compact Kähler manifolds”
- BIRS Model Theory Workshop** Banff, Alberta *March 2004*
 “Jet spaces in complex analytic geometry”
- Midwest Model Theory Meeting** Toronto, Ontario *November 2003*
 “Differential Jet Spaces”
- ASL Winter Meeting** (Joint Math. Mtg.) Baltimore, Maryland *January 2003*
 “ F -structures and semi-abelian varieties over finite fields”
- Euro-Conference in Model Theory and Applications** Ravello, Italy *May 2002*
 “ F -structures and semi-abelian varieties over finite fields”
- ASL European Summer Meeting – Logic Colloquium’01** Vienna, Austria *August 2001*
 “Some model theory of compact complex spaces”
- Joint Mathematics Meetings** (Model Theory Session) New Orleans, Louisiana *January 2001*
 “Saturated compact complex spaces”
- Midwest Model Theory Meeting** Madison, Wisconsin *November 2000*
 “Saturated compact complex spaces”
- ASL Annual Meeting** (Model Theory Session) Urbana, Illinois *June 2000*
 “Difference fields with quantifier elimination”

Teaching at the University of Waterloo

Rings, Modules, and Representations (PMath 444/644)	<i>Scheduled Winter 2009</i>
Rings, Polynomials, and Finite Fields (PMath 345)	<i>Fall 2009</i>
Topics in Logic: Model Theory (PMath 711)	<i>Winter 2009</i>
Set Theory and Model Theory (PMath 433)	<i>Fall 2008</i>
Introduction to Mathematical Logic (PMath 330)	<i>Fall and Winter 2008, Fall 2005</i>
Linear Algebra 2 (Advanced Level) (Math 245)	<i>Winter 2008</i>
Linear Algebra 2 (Math 235)	<i>Fall 2006</i>
Topics in Geometry: Model Theory of Fields (PMath 755)	<i>Fall 2006</i>
Mathematical Logic (PMath 432/632)	<i>Winter 2006, Fall 2004</i>
Linear Algebra for Engineering (Math 115)	<i>Fall 2005</i>
Algebra for Honours Mathematics (Math 135)	<i>Fall 2009, Fall 2004</i>

Supervisory Experience at the University of Waterloo

Post-doctoral

Bernie Anderson (co-supervisor)	<i>July 2009 – present</i>
Moshe Kamensky (principal supervisor)	<i>August 2007 – present</i>

Doctoral

Omar Leon Sanchez	<i>Fall 2008 – present</i>
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Masters

Chris Eagle	<i>Fall 2008 – present</i>
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Masters Thesis Committee Membership

David Belanger	<i>Spring 2009</i>
Zi Yang Sham	<i>Winter 2008</i>
Stephanie Kleven	<i>Spring 2006</i>

NSERC USRA Supervision

Atul Sivaswamy	<i>Summer 2009</i>
Oleg Chterental	<i>Winter 2009</i>
Richard Zsolt	<i>Spring 2008</i>
Elliot Lipnowski	<i>Winter 2008</i>
Wilson Kan	<i>Spring 2006</i>

Reading Course Supervision

Willie Gollinger	<i>Winter 2008</i>
Cameron Zwarich	<i>Winter 2005</i>

Doctoral Thesis Committee Membership

Dale Radin, University of Illinois at Chicago	<i>Spring 2004</i>
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