

Pantelis E. Eleftheriou

Curriculum Vitæ

Department of Pure Mathematics, University of Waterloo, Canada

Center of Mathematics and Fundamental Applications, University of Lisbon, Portugal (on leave)

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Citizenship: Cypriot
Date of Birth: March 10, 1979
Place of Birth: Thessaloniki, Greece

Education

- Ph.D. in Mathematics, August 2007, University of Notre Dame, USA.
Thesis title: *Groups definable in linear o-minimal structures*.
Thesis supervisor: Sergei Starchenko.
- M.S. in Logic and Theory of Algorithms and Computation (MPLA), July 2002, National and Kapodistrian University of Athens, Greece.
- B.S. in Mathematics, July 2000, Aristotle University of Thessaloniki, Greece.

Positions

- August 2011 - July 2013: Post-doctoral fellow, Department of Mathematics, University of Waterloo, Canada.
- July 2008 - July 2014 (currently on leave): FCT research fellow, Center of Mathematics and Fundamental Applications (CMAF), University of Lisbon, Portugal.
- October 2007 - June 2008: Marie Curie (ModNet) research fellow, Institute of Mathematics (IMUB), University of Barcelona, Spain.

Short-term positions

- Fields Institute, University of Toronto, Canada, May - June, 2009.
- University of Haifa, Israel, November - December, 2007.
- McMaster University, Canada, September - December, 2004.

Publications

Publications in Journals:

- (with Y. Peterzil), *Definable quotients of locally definable groups*, *Selecta Mathematica* (pending revisions).
- *Local analysis for semi-bounded groups*, *Fundamenta Mathematicae* (pending revisions).
- (With C. Koutras and C. Nomikos) *Notions of Bisimulation for Heyting-Valued Modal Languages*, *Journal of Logic and Computation*, Advance Access (2010).
- *Groups definable in linear o-minimal structures: the non-compact case*, *Journal of Symbolic Logic*, Volume 75 (2010), 208-220.
- *Compact domination for groups definable in linear o-minimal structures*, *Archive for Mathematical Logic*, Volume 48, Issue 7 (2009), 607-623.
- (With M. Edmundo) *Definable group extensions in semi-bounded o-minimal structures*, *Mathematical Logic Quarterly*, Volume 55 (2009), 598-604.
- *A semi-linear group which is not affine*, *Annals of Pure and Applied Logic* 156 (2008), 287-289.
- (With M. Edmundo) *The universal covering homomorphism in o-minimal expansions of groups*, *Mathematical Logic Quarterly*, Volume 53 (2007), 571-582.
- (With S. Starchenko) *Groups definable in ordered vector spaces over ordered division rings*, *Journal of Symbolic Logic*, Volume 72 (2007), 1108-1140.
- (With C. Koutras) *Frame constructions, truth invariance and validity preservation in many-valued modal logic*, *Journal of Applied Non-Classical Logics*, Volume 15 - No. 4 (2005), 367-388.

Publications in Conference Proceedings:

- (With C. D. Koutras and Ch. Nomikos) *Notions of Bisimulation for Heyting-Valued Modal Languages*, in A. Beckman, C. Dimitracopoulos, B. Loewe (eds): *Logic and Theory of Algorithms, Proceedings of Computability in Europe 2008 (CiE 2008)*, pp. 117-126, Athens University Press (2008).

Preprints/Submitted:

- *Non-standard lattices and o-minimal groups*, submitted.
- (with M. Edmundo and L. Prelli), *The universal covering map in o-minimal expansions of groups*, submitted.
- (with Y. Peterzil and J. Ramakrishnan), *Intrepretable groups are definable*, submitted.
- *Affine embeddings for semi-linear tori*, in preparation.
- *Goldblatt-Thomason theorem for many-valued modal logic*, in preparation.

Teaching

University of Waterloo:

- Fall 2011, Instructor, Linear Algebra (engineering)

University of Notre Dame:

- Fall 2006, Instructor, Calculus A (science)
- Fall 2005, Instructor, Calculus A (science)
- Spring 2005, Teaching Assistant, Calculus B (science)
- Spring 2004, Teaching Assistant, Beginning Logic
- Fall 2003, Teaching Assistant, Calculus III (engineering)
- Fall 2003, Teaching Assistant, Calculus A (science)

University of Athens:

- Spring 2002, Teaching Assistant, Mathematical Logic

Grants

- *University of Waterloo Post-doctoral Fellowship*, 2011-2013.
- *Lisbon-Lyon Group Grant: Convénio FCT/CNRS Concurso 2010*, Portugal-France, 2010.
- *Lisbon Group Grant: Model theory PTDC/MAT/101740/2008*, Fundação para a Ciência e a Tecnologia, Portugal, 2010-2011.
- *Barcelona Group Grant: Teoría de Modelos MTM2008-01545*, Spain, 2008-2011.
- *FCT Research Fellowship SFRH/BPD/35000/2007*, Fundação para a Ciência e a Tecnologia, Portugal, 2008- renewable until 2014.
- *Marie Curie Research Fellowship*, European Commission's Research Training Network MODNET, 2007-2008.
- *Graduate Research and Teaching Assistant Scholarship*, University of Notre Dame, 2002-2007.
- *Academic Scholarship*, MPLA, University of Athens, 2000-2002.

Awards

- *Outstanding Graduate Student Teacher Award for Excellence in Teaching*, awarded by Notre Dame's Kaneb Center for Teaching and Learning, 2006.
- *Award for Highest G.P.A. in the Department of Mathematics*, University of Thessaloniki, awarded by the Greek State Scholarships Foundation, 2000.
- *Award for Excellence in Mathematics*, ranked second in a mathematical competition among all tutoring schools in Thessaloniki, Greece, 1995.

Invited talks

- Model Theory Seminar, McMaster University, September 2011.
- Logic Seminar, University of Notre Dame, September 2011.
- Pure Mathematics Seminar, University of Cyprus, February 2011.
- Pure Mathematics Seminar, University of East Anglia, November 2010.
- Logic Seminar, University of Manchester, October 2010.
- Model Theory Seminar, University of Leeds, October 2010.
- Logic Colloquium, Amsterdam, March 30, 2010.
- Days in Logic 2010, Porto, January 28 - 30, 2010.
- (Plenary speaker) Panhellenic Logic Symposium, Patras, Greece, July 2009.
- MODNET Barcelona Conference, University of Barcelona, November 2008.
- Model Theory Seminar, University of Leeds, April 2008.
- MPLA Seminar, University of Athens, March 2008.
- Model Theory Seminar, University Claude Bernard - Lyon 1, February 2008.
- Algebra Seminar, University of Haifa, Israel, November 2007.
- Annual ASL Meeting, Florida, March 2007.
- MODNET midterm meeting, Antalya, Turkey, November 2006.
- Model Theory Seminar, University of Illinois at Chicago, November 2006.
- Model Theory Seminar, McMaster University, March 2005.
- Set Theory Undergraduate Seminar, Aristotle University of Thessaloniki, Spring 2001.

Other invitations

- Oberwolfach Workshop in Model Theory: Around Valued Fields and Dependent Theories, Oberwolfach, Germany, January 3 - 9, 2010.

Series of lectures

- *Groups definable in o-minimal structures*, Logic and Model Theory Seminars, University of Lisbon, Spring 2008.
- *Groups definable in o-minimal structures*, Model Theory Seminar, University of Barcelona, Spring 2008.
- *Hrushovski's constructions*, Model Theory Working Seminar, Notre Dame, Spring 2006.

Professional activities

- Referee for scientific journals:
 - Annals of Pure and Applied Logic
 - Archive for Mathematical Logic
 - Journals of London Mathematical Society
- Co-organizer, Workshop on Stability Related Issues, University of Lisbon, October 15-16, 2009.
- Co-organizer, MODNET Barcelona Conference, University of Barcelona, November 3-7, 2008.
- Organizer, Model Theory Working Seminar, University of Notre Dame, Spring 2007.
- Organizer, Model Theory Working Seminar, University of Notre Dame, Fall 2006.
- Panelist, Teaching Seminar, Department of Mathematics, University of Notre Dame, February 2006.
- Co-organizer, 5th Annual Graduate Student Conference in Logic, University of Notre Dame, May 1-2, 2004.
- Graduate student president and organizer of graduate student seminar, MPLA, Athens, 2001-2002.

Academic referees

- Professor Sergei Starchenko (Ph.D. thesis supervisor)
Department of Mathematics, University of Notre Dame
255 Hurley Hall, Notre Dame, IN 46556, USA
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- Professor Steven Buechler
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- Professor Ya'acov Peterzil
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- Professor Anand Pillay
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- Associate Professor Matthew J. Dyer (teaching)
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