

Curriculum Vitæ

Panteleimon Eleftheriou

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Research Fellow of the Zukunftskolleg (Assistant Professor)

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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 (ranked 1st).

Employment

- *Research Fellow of the Zukunftskolleg (Assistant Professor)*, May 2015 - April 2020, Department of Mathematics and Statistics, University of Konstanz, Germany.
- *Marie Curie Fellow of the Zukunftskolleg*, August 2013 - April 2015, Department of Mathematics and Statistics, University of Konstanz, Germany.
- *Post-doctoral Fellow*, August 2011 - July 2013, Department of Mathematics, University of Waterloo, Canada.
- *FCT Research Fellow*, July 2008 - July 2011, CMAF, University of Lisbon, Portugal.
- *Marie Curie Fellow (ModNet)*, October 2007 - June 2008, Institute of Mathematics (IMUB), University of Barcelona, Spain.

Extended research visits

- Fields Institute, University of Toronto, Canada, May - June 2017.
- CMAF, University of Lisbon, Portugal, July - October 2014.
- MSRI, University of California at Berkeley, USA, April - May 2014.
- Fields Institute, University of Toronto, Canada, May - June 2009.
- University of Haifa, Israel, November - December 2007.
- McMaster University, Canada, September - December 2004.

Grants/Fellowships/Scholarships

- *Fields Institute grant for participating in the Thematic Program on Unlikely Intersections, Heights, and Efficient Congruencing*, 6400 CAD, University of Toronto, May - June, 2017.
- *VolkswagenStiftung grant (main applicant) for organizing Summer School in Tame Geometry*, 34,200 EUR, University of Konstanz, Germany, 2015.
- *5-year Research Fellowship at the Department of Mathematics and Statistics (Zukunftskolleg), Exzellenzinitiative*, University of Konstanz, Germany, 2015.

- *Young Scholar Fund, Exzellenzinitiative* 49,500 EUR, University of Konstanz, Germany, 2015.
- *DFG Research Grant* 161,900 EUR, University of Konstanz, Germany, 2014.
- *5-year FCT Research Position at the rank of Assistant Professor IF/01702/2013, plus 50,000 EUR start-up grant*, Fundação para a Ciência e a Tecnologia, Portugal, 2014 (declined).
- *2-year Marie Curie Postdoctoral Fellowship at the Zukunftskolleg*, University of Konstanz, Germany, 2013.
- *2-year Postdoctoral Fellowship*, University of Waterloo, Canada, 2011.
- *(3+3)-year FCT Postdoctoral Fellowship SFRH/BPD/35000/2007*, Fundação para a Ciência e a Tecnologia, Portugal, 2008 (second tri-annual declined).
- *9-month Marie Curie Research Fellowship*, European Commission's Research Training Network MODNET, University of Barcelona, Spain, 2007.
- *5-year Graduate Research and Teaching Assistant Scholarship*, University of Notre Dame, USA, 2002.
- *2-year Academic Scholarship*, MPLA, University of Athens, Greece, 2000.

Group grants

- *Lisbon-Lyon Group Grant*: Convénio FCT/CNRS Concurso 2010, Portugal-France, 2010.
- *Lisbon Group Grants*: Fundação para a Ciência e a Tecnologia, Portugal.
 - Applications and extensions of o -minimality, PTDC/MAT/122844/2010-2012
 - On o -minimality and definably compact groups, PTDC/MAT/101740/2008-2010
- *Barcelona Group Grant*: Teoría de Modelos MTM2008-01545, Spain, 2008-2011.

Awards

- *Outstanding Graduate Student Teacher Award for Excellence in Teaching*, awarded by Notre Dame's Kaneb Center for Teaching and Learning, 2006.
- *Award and prize for highest G.P.A. of the year 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.

Publications in Journals

Submitted:

23. P. Eleftheriou, *Counting algebraic points in expansions of o -minimal structures by a dense set*, submitted (2017), 12 pages.
22. P. Eleftheriou, *Product cones in dense pairs*, submitted (2017), 11 pages.
21. P. Eleftheriou, A. Günaydin, P. Hieronymi, *The Choice Property in tame expansions of o -minimal structures* (2017), submitted, 10 pages.
20. P. Eleftheriou, *Small sets in dense pairs* (2017), submitted, 17 pages.
19. P. Eleftheriou, A. Günaydin, P. Hieronymi, *Structure theorems in tame expansions of o -minimal structures by a dense set* (2016), submitted, 41 pages.

Published:

18. P. Eleftheriou, *Semi-linear stars are contractible*, **Fundamenta Mathematicae** (2016), to appear, 17 pages.

17. P. Eleftheriou, A. Hasson, G. Keren, *On weakly o-minimal non-valuational expansions of ordered groups*,
Journal of Symbolic Logic (2015), to appear, 16 pages.
16. P. Eleftheriou, Y. Peterzil, J. Ramakrishnan, *Intrepretable groups are definable*,
Journal of Mathematical Logic, Published online, Vol. 14, No. 1 (2014), 47 pages.
15. M. Edmundo, P. Eleftheriou, L. Prelli, *Coverings by open cells*,
Archive for Mathematical Logic, Arch. Math. Logic 53 (2014), 307-325.
14. M. Edmundo, P. Eleftheriou, L. Prelli, *The universal covering map in o-minimal expansions of groups*,
Topology and its Applications, Volume 160 (2013), 1530-1556.
13. P. Eleftheriou, Y. Peterzil, *Lattices in locally definable subgroups of $\langle \mathbb{R}^n, + \rangle$* ,
Notre Dame Journal of Formal Logic, Volume 54, Number 3-4 (2013), 449-461.
12. P. Eleftheriou *Non-standard lattices and o-minimal groups*,
Bulletin of Symbolic Logic, Volume 19 (2013), 56-76.
11. P. Eleftheriou, Y. Peterzil, *Definable groups as homomorphic images of semilinear and field-definable groups*,
Selecta Mathematica N.S., Volume 18 (2012), 905-940.
10. P. Eleftheriou, Y. Peterzil, *Definable quotients of locally definable groups*,
Selecta Mathematica N.S., Volume 18 (2012), 885-903.
9. P. Eleftheriou, *Local analysis for semi-bounded groups*,
Fundamenta Mathematicae, Volume 216 (2012), 223-258.
8. P. Eleftheriou, C. Koutras, C. Nomikos, *Notions of Bisimulation for Heyting-Valued Modal Languages*,
Journal of Logic and Computation, Volume 22 (2012), 213-235.
7. P. Eleftheriou, *Groups definable in linear o-minimal structures: the non-compact case*,
Journal of Symbolic Logic, Volume 75 (2010), 208-220.
6. P. Eleftheriou, *Compact domination for groups definable in linear o-minimal structures*,
Archive for Mathematical Logic, Volume 48, Issue 7 (2009), 607-623.
5. P. Eleftheriou, M. Edmundo, *Definable group extensions in semi-bounded o-minimal structures*,
Mathematical Logic Quarterly, Volume 55 (2009), 598-604.
4. P. Eleftheriou, *A semi-linear group which is not affine*,
Annals of Pure and Applied Logic 156 (2008), 287-289.
3. P. Eleftheriou, M. Edmundo, *The universal covering homomorphism in o-minimal expansions of groups*,
Mathematical Logic Quarterly, Volume 53 (2007), 571-582.
2. P. Eleftheriou, S. Starchenko, *Groups definable in ordered vector spaces over ordered division rings*,
Journal of Symbolic Logic, Volume 72 (2007), 1108-1140.
1. P. Eleftheriou, 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.

In preparation:

- P. Eleftheriou, *Groups definable in tame expansions of o-minimal structures by dense sets*.
- P. Eleftheriou, *Groups definable in weakly o-minimal non-valuational structures*.
- P. Eleftheriou, *Affine embeddings for semi-linear tori*.
- P. Eleftheriou and C. Koutras, *Goldblatt-Thomason theorem for many-valued modal logics*.

Supervision/mentoring

Postdocs:

- Erick Garcia Ramirez, DAAD Postdoctoral Fellow, University of Konstanz, starting November 2017.

Ph.D. students:

- Alex Savatovsky, University of Konstanz, September 2015 - present.

Master students:

- Magdalena Forstner, “Quantifier elimination tests and examples”, University of Konstanz, 2017.
- Lorenzo Ceriello, “Lattices in linear o-minimal structures”, Seconda Università Degli Studi di Napoli, co-supervised with Paola D’Aquino, 2016.
- Gil Keren, “Definable compactness in weakly o-minimal structures”, Ben Gurion University, co-supervised with Assaf Hasson, 2014.

Teaching

University of Konstanz:

- Winter 2015/2016, Topics in Model Theory (Graduate course)

University of Waterloo:

- Fall 2012, Linear Algebra II (Honors Mathematics) - evaluated 92/100
- Winter 2012, Linear Algebra I (Honors Mathematics)
- Fall 2011, Linear Algebra (Engineering)

University of Notre Dame:

- Fall 2006, Calculus A (Science) - received Excellence Award
- Fall 2005, Calculus A (Science)
- Spring 2005, (TA) Calculus B (Science)
- Spring 2004, (TA) Beginning Logic
- Fall 2003, (TA) Calculus III (Engineering)
- Fall 2003, (TA) Calculus A (Science)

University of Athens:

- Spring 2002, (TA) Mathematical Logic

Invited talks

- Workshop on O-minimality and Diophantine Applications, Fields Institute, June 2017.
- Logic Seminar, University of Waterloo, June 2017.
- Oberwolfach Workshop: O-Minimality and its Applications to Number Theory and Analysis, Oberwolfach, May 2017.

- Logic Seminar, University of Lyon 1, Lyon, April 2017.
- Model Theory Month in Münster - Conference, University of Münster, May 2016.
- Mathematics Colloquium, University of Konstanz, October 2015.
- Mathematics Colloquium, University of Cyprus, December 2014.
- Logic Colloquium 2014, Vienna University of Technology, July 2014.
- Model Theory Seminar, University of Illinois at Urbana-Champaign, April 2014.
- Berkeley Model Theory Seminar, UC Berkeley, April 2014.
- Mathematical Logic Seminar, University of Lisbon, February 2014.
- Workshop on Future Research Directions, Zukunftskolleg, Konstanz, January 2014.
- Mathematics Colloquium, University of Crete, December 2013.
- Géométrie et Théorie des Modèles, Paris, December 2013.
- Mathematics Colloquium, Mimar Sinan Fine Arts University, Istanbul, November 2013.
- Naples - Konstanz Model Theory Days, Caserta, November 2013.
- Model Theory Seminar, University of Konstanz, June 2013.
- Model Theory Seminar, University of Notre Dame, March 2013
- Pure Mathematics Colloquium, Wesleyan University, January 2013.
- ASL North American Annual Meeting, University of Wisconsin at Madison, April 2012.
- Geometry and Model Theory Seminar, Fields Institute, March 2012.
- 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 Seminar, Amsterdam, March 30, 2010.
- Days in Logic 2010, Porto, January 28 - 30, 2010.
- 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.
- ASL North American Annual 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 2006.
- Model Theory Seminar, McMaster University, March 2005.
- Set Theory Undergraduate Seminar, Aristotle University of Thessaloniki, Spring 2001.

Invitations to workshops

- Oberwolfach Workshop: O-Minimality and its Applications to Number Theory and Analysis, Oberwolfach, Germany, April 30 - May 6, 2017.
- Oberwolfach Workshop in Model Theory: groups, geometry and combinatorics, Oberwolfach, Germany, January 3 - 9, 2016.
- 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 journals:
 - Journals of London Mathematical Society
 - Annals of Pure and Applied Logic
 - Archive for Mathematical Logic
 - Notre Dame Journal of Formal Logic
 - Mathematical Logic Quarterly
- Member of the Scientific Committee of Panhellenic Logic Symposium 2017, Delphi, Greece.
- Co-organizer of Model Theory session at Panhellenic Logic Symposium 2017, Delphi, Greece.
- Organizer, Model Theory Working Seminar, University of Konstanz, Summer 2017.
- Organizer (chair), Summer School in Tame Geometry, Konstanz, July 18 - 23, 2016.
- Member of the Executive Committee of the Zukunftscolleg, University of Konstanz (April 2015 - March 2016)
- Co-organizer, Model theory seminar, University of Konstanz, since 2015.
- Co-organizer, Workshop on Stability Related Issues, Lisbon, October 15-16, 2009.
- Co-organizer, MODNET Barcelona Conference, University of Barcelona, November 3-7, 2008.
- Organizer, Model Theory Working Seminar, Notre Dame, Spring 2007 and Fall 2006.
- Panelist, Teaching Seminar, Department of Mathematics, Notre Dame, February 2006.
- Co-organizer, 5th Graduate Student Conference in Logic, Notre Dame, May 1-2, 2004.
- Graduate student president and organizer of graduate student seminar, MPLA, University of Athens, 2001-2002.