

Curriculum Vitae for Dugald Macpherson, 17 February 2016.

Name: Hugh Dugald Macpherson

Work Address: School of Mathematics, University of Leeds, Leeds LS2 9JT, UK
(tel: 0113-3435166)

Email address: h.d.macpherson@leeds.ac.uk

Academic Position: Professor of Mathematical Logic, University of Leeds.

Education: Read for B.A. in Mathematics and Philosophy (Merton College, Oxford 1977–1980), and for D.Phil. in Mathematics (Merton College, Oxford, 1980–1983).

Academic Qualifications: M.A. in Mathematics and Philosophy (Oxford) (converted from a B.A. which was obtained in July 1980). D.Phil in Mathematics (Oxford), August 1983.

Appointments since completing D.Phil:

Postdoctoral Research Fellow, Dept. of Mathematics, Simon Fraser University, Burnaby B.C., Canada V5A 1S6, Sept 1983 – Aug 1985.

Junior Research Fellow, New Hall, Cambridge (Oct 1985 – Sept 1987) (though Sept 1986–April 1987 was spent as a Visiting Professor at the University of Calgary).

SERC Advanced Fellow Oct 1987–Sept 1992 (held for the first year in the Mathematical Institute, Oxford, and thereafter at Queen Mary and Westfield College).

Lecturer in Mathematics, Queen Mary and Westfield College (University of London, address as above) October 1992 - September 1994.

Lecturer in Pure Mathematics, University of Leeds (Oct 1994 - July 1996).

Reader in Mathematical Logic, University of Leeds (August 1996 – August 2001).

Professor of Mathematical Logic, University of Leeds (since September 2001).

Teaching experience. Taught courses in Linear Algebra (Simon Fraser University), Calculus and Analytic Geometry (University of Calgary), Logic (LSE), Logic, Group Theory, Coding Theory, Combinatorics (Queen Mary), Logic (inc. Set Theory, Model theory), Group Theory (and related algebraic topics), Number Theory, Combinatorics, Linear Algebra, Calculus, Graph Theory. and Foundation Year modules (Leeds).

Main administrative posts in Leeds: Postgraduate Tutor (1995–2004). Pure Mathematics Colloquium organiser (approx 1995–2003, 2007–08). Projects coordinator (2005–06). Joint Honours Science Personal Tutor (2006–2011). School of Mathematics REF Coordinator (2010–2013), Head of Department of Pure Mathematics (since August 2015).

Research student supervision: Richard Archer (1989–1993); Simon McLeish (1990–1993); Alex Mosley (1992–1996); Keith Johnson (1995–1999); Tim Mellor (1998 - 2002); Spiros Bousbouras (1999–2005); Silvia Barbina (2000–2004); Richard Elwes (2001–2005), Mark Ryten (2002–2007), Pietro dello Stritto (2004–2009), Richard Marshall (2004–2008), Andres Aranda-Lopez (2009–2013), George Attehsis (2009–2013), David Bradley Williams (2009–14), Daniel Wolf (since 2012), Ricardo Bello Aguirre (since 2012), Daoud Siniara (since 2013), Asma Almazaydeh (since 2015), Anja Komatar (since 2015, main supervisor Immanuel Halupczok), Ingram Bondin (since 2015).

Editorial Board of Journals: Mathematical Logic Quarterly (since 2006); Communications in Algebra (2000–2015), Contributions to Discrete Mathematics (since 22/3/2005) (formerly Editorial Board for Bulletin of Symbolic Logic 1/1/2000–31/12/2004). Lecture Notes in Logic (ASL, published by CUP) since 2010. London Mathematical Society Editorial Adviser since January 1 2015.

Managing Editor: Lecture Notes in Logic (ASL, published by CUP) 2010–2014. Mathematical Logic Quarterly from 1 January 2014.

Research Administration.

Treasurer of British Logic Colloquium since 2005-2013. President since 1/1/2014.

Organisation of various conferences: Secretary for Logic Colloquium 1997, British Mathematics Colloquium 2000; organiser for ICMS meeting on model theory of valued fields, 1999 (with D. Haskell), British Logic Colloquium (Leeds, 2004), PhD summer schools in Logic for Marie Curie networks in Leeds in 2005 (MODNET), 2006 (MATHLOGAPS), 'From Higman-Sims to Urysohn: a random walk through groups, graphs, designs, and spaces' August 2007, Ambleside).

One of 4 co-organisers for Newton Institute programme 'Model theory and applications to Algebra and Analysis, Cambridge, Jan–July 2005.

Logic Colloquium 2006 Programme Committee.

Chair, Scientific Committee, Final MODNET conference, November 3–7 2008, Barcelona.

One of 4 co-organisers for Durham Symposium 'New directions in the model theory of valued fields', July 2009.

Organiser, EPSRC/LMS Short Instructional Course, 'Model theory', 18–23 July 2010, Leeds.

Second Training Workshop, MALOA, June 27–July 2 2011, Leeds.

One of three organisers for LMS Northern Regional Meeting and Workshop on Homogeneous Structures, 19–22 July 2011.

Scientific Committee Chair, MALOA final conference (Luminy, 29 April-May 3 2013).

One of 3 co-organisers of British Logic Colloquium conference, Leeds Sept 5-7, 2013.

Scientific Committee of BIRS meeting, 'Model-theoretic Methods in Constraint Satisfaction', 24-28 November 2014, Banff

One of 3 co-organisers for Durham Symposium 'Permutation groups and transformation semigroups', Durham July 2015.

Invited speaker at recent conferences:

Fields Institute (Toronto), 1997 - Geometric model theory.

British Mathematics Colloquium (Morning Speaker 1997, Special Session Speaker 1998);

MSRI Berkeley, 1998, Workshop on Model Theory of Fields (3 lectures).

Trento, 1999 Workshop on model theory and infinite permutation groups (9 lectures).

Saskatoon, 1999, Valuation theory.

Luminy, France, 2000, 'Structures relationnelles et applications, à l'occasion des quatre-vingts ans de Roland Fraïsse'.

Würzburg, 2000, Workshop on buildings and the model theory of groups .

Hattingen, 2001, Algebra and discrete mathematics.

Barcelona, 2001, Workshop on model theory.

Ravello (Italy) 2002, Model theory and Applications.

Luminy, 2002, 'Simpleton'.

Brussels, 2003, Model theory workshop.

Banff, Canada, 2004, 'Model theory and Geometry' (joint tutorial series at BIRS workshop)

Cambridge 2005, 'An Introduction to recent applications of model theory', (joint tutorial series at workshop of Newton Inst. programme).

Oxford 2005, Workshop on infinite permutation groups.

Durham 2006, 'Finite and algorithmic model theory', (joint tutorial series at satellite workshop of Newton Inst. Programme).

Mons, 2007, Model theory meeting.

Banff, Model theory meeting, Feb 2009 (2 talks)

Paris GTM meeting May 2008
 Bogota, p-adic model theory meeting, March 2009 (3 talks)
 Various Oberwolfach meetings (eg part of tutorial series in January 2007).
 Oxford, Geometric model theory, March 2010.
 MALOA First Training Workshop, Sept 5–11 2010, Fischbachau (5 talks)
 Paris GTM Meeting February 2011.
 Mühlheim, Groups and model theory, May 2011.
 Luminy, Model theory of groups, November 2011.
 Banff, Neostability theory, February 2012.
 Royal Holloway, London, Asymptotic group theory and model theory, March 2012.
 Wrocław, Model theory in Wrocław 2012, June 2012.
 Ravello, Model theory 2013, June 2013.
 London 2013, Combinatorics, Algebra, and More: a Conference in Celebration of Peter Cameron, July 2013.
 Banff, Permutation groups, July 2013.
 Bonn HIM, ‘Workshop on homogeneous structures, Oct 28-31, 2013.
 Lyon, ‘Journées d’en mémoire d’Eric Jaligot’, July 26-27 2014
 Istanbul, Models and Groups (3 lectures), October 8-10 2015
 Tehran, Set theory and model theory (2 lectures), October 12–16 2015.
 Mulheim, New pathways between group theory and model theory, February 1–4 2016.
 Paris, Model theory of fields: derivations, orders and valuations, 2-3 June 2016
 Dresden, ‘Model theory, automorphism groups, and weighted automata’, June 17 2016.
Prize: London Mathematical Society Junior Berwick Prize 1997.
Recent research grants (amounts are approximate): EU Marie Curie Fellowship (for Dr Patrick Simonetta, in Leeds Sept 1997-Aug 1998).
 EPSRC grant for Research Assistant (Dr. Bernhard Herwig, in Leeds 1996-1998).
 EPSRC Visiting Fellow (Dr. Kanat Kudaibergenov, in Leeds 1999).
 EPSRC grant for Workshop in Model Theory of Henselian Valued Fields (ICMS, Edinburgh, 1999).
 London Mathematical Society £1000 per year 1995–2001 (approx) for joint activities in Model theoretic algebra (Leeds, Manchester, Birmingham, UMIST).
 EPSRC grant for Research Assistant (Dr. Ivan Tomasic, in Leeds 2001–2003).
 EU Marie Curie EIF Fellowship (Dr. R. Wencel, in Leeds 2004–2006).
 EU Marie Curie Early Stage Training Network MATHLOGAPS 1/9/2004–31/8/2008, funding PhD training in Mathematical Logic in Leeds, Manchester, Lyon 1, Lyon ENS, Munich (Coordinator of the overall project).
 EU Marie Curie Research Training Network in model theory MODNET (Scientist-in-Charge for Leeds).
 EPSRC grant ‘Independence, groups and measures in model theory (CoI – the PI was A. Pillay) 2007–2010.
 EPSRC grant ‘Homogeneous structures’ (Co-I, P.I. is J.K. Truss), 2006–2009.
 London Mathematical Society for conference ‘From Higman-Sims to Urysohn: a random walk through groups, graphs, designs, and spaces,’ Ambleside, August 23–26 2007.
 EU Marie Curie Initial Training Network MALOA (coordinator), 2009-2013.
 EU Marie Curie Intra-European Fellowship (J. Gismatullin, 2010–2012).
 EPSRC grant ‘New Directions in the model theory of valued fields’ (Durham Colloquium, 2009, Co-I).

EPSRC grant (Co-I, PI J.K. Truss) ‘Homogeneous structures, homomorphism-homogeneity, and automorphism groups’, 2009–2012.

EPSRC grant, ‘Definable sets and measures in finite, pseudofinite and profinite structures’, 2013–2016.

EU Marie Curie Intra-European Fellowship (D. Garcia, 2016–2018).

Research Interests: model theoretic algebra (especially \aleph_0 -categoricity, parts of stability theory and simplicity, o-minimality and variations, pseudofinite structures, model theory of groups, model theory of valued fields). Infinite permutation group theory, and adjacent topics in finite permutation group theory and combinatorics.

List of Publications

Books:

1. (Co-edited with R. Kaye): *Automorphism groups of first order structures*, Oxford University Press, Oxford, 1994 (the book includes three extended introductions to sections, by Kaye and myself, and an article ‘A survey of Jordan groups’ (pps. 73–110) by myself).
2. (Coauthored with M. Bhattacharjee, R.G. Möller, P.M. Neumann), *Notes on infinite permutation groups*, Hindustan Book Agency, New Delhi, 1997, reprinted, Lecture Notes in Mathematics No. 1698, 1998, Springer, Berlin.
3. (Coauthored with D. Haskell, E. Hrushovski) ‘Stable domination and independence in algebraically closed valued fields, ASL Lecture Notes in Logic, Cambridge University Press, 2007.
4. (Co-edited with Z. Chatzidakis, A. Pillay, A.J. Wilkie), ‘Model theory with applications to algebra and analysis, I, II, London Math Soc. Lecture Notes 349, 350, 2008.
5. (Co-edited with Carlo Toffalori), ‘Model theory in Algebra, Analysis and Arithmetic, Cetraro, Italy 2012’, Springer Lecture Notes in Mathematics 2111, 2014.

Papers:

1. ‘Infinite distance transitive graphs of finite valency’, *Combinatorica* (2) (1981), 63–69.
2. ‘The action of an infinite permutation group on the unordered subsets of a set’, *Proc. London Math. Soc.* (3) 46 (1983), 471–486.
3. ‘Orbits of infinite permutation groups’, *Proc. London Math. Soc.* 3 46 (1985), 246–284.
4. ‘Growth rates in infinite graphs and permutation groups’, *Proc. London Math. Soc. Ser.3* 46 (1985), 285–294.
5. (with P.J. Cameron) ‘Rank three permutation groups with rank three subconstituents’, *J. Comb. Theory (B)* 39 (1985), 1–16.
6. ‘Homogeneity in infinite permutation groups’, *Per. Math. Hung.* 17 (1986), 211–233.
7. ‘Groups of automorphisms of \aleph_0 -categorical structures’, *Quart. J. Math. Oxford Ser.2*, 37 (1986), 449–465.
8. ‘Graphs determined by their finite induced subgraphs’ *J. Comb. Theory Ser. B* 41 (1986), 230–234.
9. (with I.M. Hodkinson) ‘Relational structures determined by their finite induced substructures’, *J. Symb. Logic.* 53 (1988), 222–230.
10. ‘Infinite permutation groups of rapid growth’, *J. London Math. Soc. J. London Math. Soc.* (2) 35 (1987), 276–286.
11. ‘Absolutely ubiquitous structures and \aleph_0 -categorical groups’, *Quart J. Math. Oxford Ser. 2* 39 (1988), 483–500.
12. (with M. Droste, W.C. Holland), ‘Automorphism groups of infinite semilinear orders (I)’, *Proc. London Math. Soc. Ser.3* 58 (1989), 454–478.
13. (with M. Droste, W.C. Holland), ‘Automorphism groups of infinite semilinear orders (II)’, *Proc. London Math. Soc. Ser.3* 58 (1989), 479–494.
14. (with M. Droste, W.C. Holland), ‘Automorphism groups of homogeneous semilinear orders: normal subgroups and commutators’ *Canadian J. Math.* 43 (1991), 721–737.
15. (with M. Droste) ‘On k -homogeneous posets and graphs’, *J. Comb. Theory Ser. A* 56 (1991), 1–15.
16. (with W.A. Hodges, I.M. Hodkinson), ‘Omega-categoricity, relative categoricity, and coordinatisation’, *Ann. Pure Appl. Logic* 46 (1990) 169–199.

17. (with W.M. Kantor, M.W. Liebeck), ‘ \aleph_0 -categorical structures smoothly approximated by finite substructures’, *Proc. London Math. Soc. Ser.3* 59 (1989), 439–463.
18. ‘Finitely axiomatisable theories and the strict order property’, *Notre Dame J. Formal Logic* 32 (1991), 188–192.
19. ‘Interpreting groups in ω -categorical structures’, *J. Symb. Logic* 56 (1991), 1317–1324.
20. (with J. Schmerl) ‘Binary relational structures having only countably many non-isomorphic substructures’, *J. Symb. Logic* 56 (1991), 876–884.
21. (with M. Pouzet, R.E. Woodrow) ‘Countable structures of given age’, *J. Symb. Logic* 57 (1992), 992–1010.
22. (with P.M. Neumann), ‘Subgroups of infinite symmetric groups’, *J. London Math. Soc. (2)* 42 (1990), 64–84.
23. (with C.E. Praeger), ‘Maximal subgroups of infinite symmetric groups’, *J. London Math. Soc. Ser.2* 42 (1990), 85–92.
24. ‘Maximal subgroups of infinite dimensional general linear groups’, *J. Austral. Math. Soc. Ser. A* 53 (1992), 338–351.
25. (with R.E. Woodrow), ‘The permutation group induced on a moiety’, *Forum Mathematicum* 4 (1992), 243–255.
26. (with A.H. Mekler, S. Shelah) ‘The number of infinite substructures’, *Math. Proc. Cam. Phil. Soc.* 109 (1991), 193–209.
27. (with D. Haskell), ‘Cell decompositions of C -minimal structures’, *Anna. Pure Appl. Logic* 66 (1994) 113–162.
28. (with C.E. Praeger), ‘Infinitary versions of the O’Nan-Scott Theorem’, *Proc. London Mathematical Society* (3) 68 (1994), 518–540.
29. ‘Large subgroups of infinite symmetric groups’, *Proceedings Finite and Infinite Combinatorics in Sets and Logic*, NATO ASI conference, Banff 1991, Eds, N.W. Sauer, B. Sands, R.E. Woodrow, Kluwer, Dordrecht, 1994, pps 249–278.
30. (with A. Pillay) ‘Primitive permutation groups of finite Morley rank’, *Proc. London Mathematical Society* (3) 70 (1995), 481–504.
31. (with M. Droste, M. Giraudet) ‘Periodic ordered permutation groups and cyclic orderings’, *J. Comb. Theory Ser. B* 63 (1995), 310–321.
32. (with M. Droste, M. Giraudet, N. Sauer) ‘Set-homogeneous graphs’, *J. Comb. Theory Ser. B* 62 (1994), 63–95.
33. (with C.E. Praeger), ‘Cycle types in infinite permutation groups’, *J. Algebra* 175 (1995) 212–240.
34. (with S. Adeleke) ‘Classification of infinite primitive Jordan permutation groups’, *Proc. London Math. Soc. (3)*, 72 (1996), 63–123.
35. (with J.L. Alperin, J.A. Covington) ‘Automorphisms of quotients of symmetric groups’, *Proceedings, Luminy 1993* (Ed. C. Holland), Kluwer, Dordrecht (1996), 231–247.
36. ‘Permutation groups whose subgroups have just finitely many orbits’, *Proceedings, Luminy 1993* (Ed. C. Holland), Kluwer, Dordrecht (1996), 221–229.
37. ‘Sharply homogeneous permutation groups, and rational scale types’, *Forum Mathematicum*, 8 (1996), 501–507.
38. (with J.A. Covington, A.H. Mekler) ‘Some maximal subgroups of infinite symmetric groups’, *Quart. J. Math. Oxford* (2) 4 (1996), 297–311.
39. (with C. Steinhorn), ‘On variants of o-minimality’, *Ann. Pure Appl. Logic*, 79 (1996), 165–209.
40. (with R. Archer), ‘Soluble omega-categorical groups’, *Math. Proc. Cam. Phil. Soc.*, 121 (1997), 219–227.
41. ‘Homogeneous and smoothly approximated structures’, in *Algebraic Model Theory* (eds. B.T. Hart et al), Kluwer, 1997, pps 161–179.

42. (with M. Droste, M. Giraudet) ‘Set-homogeneous graphs and embeddings of total orders’, *Order*, 14 (1997), 9–20.
43. (with D.M. Evans, A.A. Ivanov), ‘Finite covers’, in *Model theory of groups and automorphism groups* (Ed. D.M. Evans), LMS Lecture Notes no. 244, 1997, Cambridge University Press, pps 1-72.
44. (with D. Haskell), ‘A version of o-minimality for the p -adics’, *J. Symb. Logic*, 62 (1997), 1075–1092.
45. ‘Orbits of soluble infinite permutation groups’, *Advances in Algebra and Model Theory* (Eds. M. Droste, R. Göbel), Gordon and Breach, 1997, 87–92.
46. (with C. Steinhorn) ‘Extending partial orders on o-minimal structures to definable total orders’, *Mathematical Logic Quarterly*, 43 (1997), 456–464.
47. (with R.M. Guralnick, M.W. Liebeck, G.M. Seitz), ‘Modules for algebraic groups with finitely many orbits on subspaces’, *J. Alg.* 196 (1997), 211–250.
48. (with D. Haskell), ‘A note on valuational definable expansions of fields’, *J. Symb. Logic* 63 (1998), 739–743.
49. (with L. van den Dries, D. Haskell), ‘One-dimensional p -adic subanalytic sets’, *J. London Math. Soc.* (2) 59 (1999), 1–20.
50. (with A.A. Ivanov) ‘Strongly determined types’, *Ann. Pure Appl. Logic* 99 (1999), 197–230.
51. ‘Notes on o-minimality and variations’, *Model theory, algebra, and geometry*, Math. Sciences Research Institute Publications 39 (Eds. D. Haskell, A. Pillay, C. Steinhorn), 97–130, Cambridge University Press, Cambridge, 2000.
52. (with D. Marker, C. Steinhorn) ‘Weakly o-minimal structures and real closed fields’, *Trans. Amer. Math. Soc.*, *Trans. Amer. Math. Soc.* 352 (2000), 5435–5483.
53. (with A. Mosley, K. Tent) ‘Permutation groups in o-minimal structures’, *J. London Math. Soc.*, (2) 62 (2000), 650–670.
54. (with M. Droste) ‘The automorphism group of the universal distributive lattice’, *Algebra Universalis*, 43 (2000), 295–306.
55. (with B. Herwig, G. Martin, A. Nurtazyn, J.K. Truss) ‘On \aleph_0 -categorical weakly o-minimal structures’, *Ann. Pure Appl. Logic* 101 (2000) 65–93.
56. (with M. Droste, A.H. Mekler) ‘Uncountable homogeneous partial orders’, *Math. Logic Quarterly* 48 (2002), 525–532.
57. (with M. Bhattacharjee) ‘Strange permutation representations of free groups’, *J. Austral. Math. Soc.*, 74 (2003), 267–285.
58. (with B. Herwig, E. Hrushovski) ‘Interpretable groups, stably embedded sets, and Vaughtian Pairs’, *J. London Math. Soc.* 68 (2003), 1–11.
59. (with S. Thomas) ‘Comeagre conjugacy classes and free products with amalgamation’, *Discrete Maths* 291 (2005), 135–142.
60. (with D. Haskell) ‘Definable sets in valued fields’, in ‘Model theory and applications’ (Eds. L. Belair, Z. Chatzidakis, P. D’Aquino, D. Marker, M. Otero, F. Point, A. Wilkie), *Quaderni di Matematica* vol. 11, Dipartimento di Matematica, Seconda Università di Napoli, 2005, 117–149
61. (with M. Bhattacharjee) ‘A locally finite dense group acting on the random graph’, *Forum Math.* 17 (2005), 513–517.
62. (with B. Kulpeshov) ‘Minimality conditions on circularly ordered structures’, *Math. Logic Quarterly* 51 (2005), 377–399.
63. (with M. Bhattacharjee) ‘Jordan groups and limits of betweenness relations’, *J. Group Theory* 9 (2006), 59–94.
64. (with D. Haskell, E. Hrushovski) ‘Definable sets in algebraically closed valued fields: elimination of imaginaries’, *J. Reine und Angew. Math.* 597 (2006), 175–236.
65. (with K. Kudaibergenov) ‘On model companions for structures with an automorphism’, *Siberian Advances in Mathematics* 16 (2006), 63–78.
66. (with K. Tent) ‘Stable pseudofinite groups’, *J. Algebra* 312 (2007), 550–561.

67. (with S. Barbina) ‘Reconstruction of homogeneous relational structures’, *J. Symb. Logic.* 72 (2007), 792–802.
68. (with R. Elwes) ‘A survey of asymptotic classes and relational structures’, *Model theory with applications to algebra and analysis* (Eds. Z. Chatzidakis, H.D. Macpherson, A. Pillay, A.J. Wilkie), London Math. Soc. Lecture Notes no. 350, Cambridge University Press, 2008
69. (with C. Steinhorn) ‘One-dimensional asymptotic classes of finite structures’, *Trans. Amer. Math. Soc.* 360 (2008), 411–448.
70. (with M.W. Liebeck, K. Tent) ‘Primitive permutation groups of bounded orbital diameter’, *Proc. London Math. Soc.* (3) 100 (2010) 216–248.
71. (with R. Gray) ‘Countable connected-homogeneous graphs’, *J. Comb. Theory B*, 100 (2010), 97–118.
72. (with R. Elwes, E. Jaligot, M. Ryten), ‘Groups in supersimple and pseudofinite theories’, *Proc. London Math. Soc.* (3) 103 (2011), 1049–1082.
73. ‘A survey of homogeneous structures’, *Discrete Math.*, 311 (2011), 1599–1634.
74. (with Robert Gray, Cheryl E. Praeger, Gordon F. Royle), ‘Set-homogeneous directed graphs’, *J. Comb. Theory Ser. B* 102 (2012), 474–520.
75. (with Charles Steinhorn), ‘Definability in classes of finite structures, in *Finite and algorithmic model theory* (Eds. J. Esparza, C. Michaux, C. Steinhorn), London Math. Soc. Lecture Notes no. 379, 2011, pp. 140–176.
76. (with Katrin Tent), ‘Simplicity of some automorphism groups’, *J. Algebra* 342 (2011), 40–52.
77. (with Katrin Tent) ‘Pseudofinite groups with NIP theory and definability in finite simple groups’, *Groups and model theory*, Contemp. Math. 576, Amer. Math. Soc. Providence, RI 2012, 255–267.
78. (with M. Aschenbrenner, A. Dolich, D. Haskell, S. Starchenko), ‘Vapnik-Chervonenkis density in some theories without the independence property, II’, *Notre Dame J. Formal Logic* 54 (2013), 311–363.
79. (with M. Bodirsky, J. Thapper), ‘Constraint satisfaction tractability from semi-lattice operations on infinite sets’, *ACM Transactions on Computational Logic*, 14 (2013), no. 4, Article 30.
80. (with D. Haskell, E. Hrushovski), ‘Unexpected imaginaries in valued fields with analytic structure’, *J. Symb. Logic* 28 (2), (2013), 523–542.
81. (with D.C. Lockett), ‘Orbit-equivalent infinite permutation groups, *Journal of Algebraic Combinatorics* 38 (2013), no. 4, 973–988.
82. (with D. Garcia, C. Steinhorn), ‘Pseudofinite structures and simplicity’, *Journal of Math. Logic* 15 (2015), no.1, 1550002, 41 pp.
83. (with M. Aschenbrenner, A. Dolich, D. Haskell, S. Starchenko), ‘Vapnik-Chervonenkis density in some theories without the independence property, I’, *Transactions of the American Mathematical Society* 368 (2016), 5889–5949.
84. (with M. Bodirsky), ‘Reducts of structures and maximal-closed permutation groups’, *J. Symb. Logic*, to appear.