Curriculum vitae Prof. Christopher Voll, PhD (cantab)

Personal Information

Address Fakultät für Mathematik Postfach 100131

Universität Bielefeld D-33501 Bielefeld

Germany https://www.math.uni-bielefeld.de/~voll/

Telephone 0049-521-1065025

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Academic Positions

07/2011- Professor of Mathematics, in particular Algebra, Bielefeld University

(W2 before December 2016, W3 thereafter)

02/2011-06/2014 Reader in Pure Mathematics, Southampton University

09/2006–02/2011 Lecturer in Pure Mathematics, Southampton University

04/2006-08/2006 Research fellow, École Polytechnique Fédérale de Lausanne

10/2005-03/2006 Research fellow, Max-Planck-Institut für Mathematik (MPIfM), Bonn

10/2004-09/2005 Deutsche Forschungsgemeinschaft (DFG) Forschungsstipendiat, Hein-

rich-Heine-Universität Düsseldorf

10/2002-09/2004 Engineering and Physical Sciences Research Council (EPSRC) Postdoc-

toral Fellow in Mathematics, Oxford University

Publications

- [1] Hessian matrices, automorphisms of p-groups, and torsion points of elliptic curves, with M. Stanojkovski, to appear in Math. Ann..
- [2] Ideal zeta functions associated to a family of class-2-nilpotent Lie rings, Quarterly J. Math. 71 (2020), 959-980.
- [3] Generalized Igusa functions and ideal growth in nilpotent Lie rings, with A. Carnevale and M. M. Schein, Sém. Lothar. Combinat. **84B** (2020), Art. 71.
- [4] Local functional equations for submodule zeta functions associated to nilpotent algebras of endomorphisms, Int. Math. Res. Not. IMRN (2019), 2137–2176.
- [5] Enumerating graded ideals in graded rings associated to free nilpotent Lie rings, with S. Lee, Math. Z. **290** (2018), 1249–1276.
- [6] Enumerating traceless matrices over compact discrete valuation rings, with A. Carnevale and S. Shechter, Israel J. Math. **227** (2018), 957–986.
- [7] Orbit Dirichlet series and multiset permutations, with A. Carnevale, Monatsh. Math. **186** (2017), 215–233.
- [8] Uniform analytic properties of representation zeta functions of finitely generated nilpotent groups, with Duong H. D., Trans. Amer. Math. Soc. **369** (2017), 6327–6349.
- [9] Representation zeta functions of some nilpotent groups associated to prehomogeneous vector spaces, with A. Stasinski, Forum Math. **29** (2017), 717–734.
- [10] Arithmetic groups, base change, and representation growth, with N. Avni, B. Klopsch and U. Onn, Geom. Func. Anal. (GAFA) **26** (2016), 67–135.
- [11] Similarity classes of integral p-adic matrices and representation zeta functions of groups of type A_2 , with N. Avni, B. Klopsch and U. Onn, Proc. Lond. Math. Soc. **112** (2016), 267–350.

- [12] Zeta functions of groups and rings recent developments, in *Groups St Andrews 2013 in St Andrews* (editors C. M. Campbell, M. R. Quick, E. F. Robertson, C. M. Roney-Dougal), London Math. Soc. Lecture Note Ser. **422** (2015), 469–492.
- [13] Normal zeta functions of the Heisenberg groups over number rings I the unramified case, with M. M. Schein, J. Lond. Math. Soc. (2) **91** (2015), 19–46.
- [14] Normal zeta functions of the Heisenberg groups over number rings II the non-split case, with M. M. Schein, Israel J. Math. **211** (2016), 171–195.
- [15] Enumerating characters and classes of p-groups, with E. A. O'Brien, Trans. Amer. Math. Soc. **367** (2015), 7775–7796.
- [16] Representation zeta functions of nilpotent groups and generating functions for Weyl groups of type *B*, with A. Stasinski, Amer. J. Math. **136** (2014), 501–550.
- [17] A New Statistic on the Hyperoctahedral Groups, with A. Stasinski, Electron. J. Combin. **20**, issue 3 (2013), P50.
- [18] Representation zeta functions of compact *p*-adic analytic groups and arithmetic groups, with N. Avni, B. Klopsch and U. Onn, Duke Math. J. **162** (2013), 111–197.
- [19] Representation zeta functions of some compact *p*-adic analytic groups, with N. Avni, B. Klopsch and U. Onn, in *Zeta functions in algebra and geometry*, Contemp. Math. **566** (2012), 295–330.
- [20] A newcomer's guide to zeta functions of groups and rings, in *Lectures on profinite topics in group theory*, with B. Klopsch, N. Nikolov (editor D. Segal), London Math. Soc. Student Texts **77** (2011), 99–144.
- [21] Functional equations for zeta functions of groups and rings, Ann. Math. **172** (2010), 1181–1218.
- [22] On representation zeta functions of groups and a conjecture of Larsen-Lubotzky, with N. Avni, B. Klopsch und U. Onn, C. R. Math. Acad. Sci. Paris, Ser. I, **348** (2010), 363–367.
- [23] Enumerating finite class-2-nilpotent groups on 2 generators, C. R. Math. Acad. Sci. Paris, Ser. I, **347** (2009), 1347-1350.
- [24] Zeta functions of three-dimensional p-adic Lie algebras, with B. Klopsch, Math. Z. **263** (2009), 195–210.
- [25] Igusa-type functions associated to finite formed spaces and their functional equations, with B. Klopsch, Trans. Amer. Math. Soc. **361** (2009), 4405–4436.
- [26] Counting subgroups in a family of nilpotent semidirect products, Bull. London Math. Soc. **38** (2006), 743–752.
- [27] Normal subgroup growth in free class-2-nilpotent groups, Math. Ann. **332** (2005), 67–79
- [28] Functional equations for local normal zeta functions of nilpotent groups, with an appendix by A. Beauville, Geom. Func. Anal. (GAFA) **15** (2005), 274–295.
- [29] Zeta functions of groups singular pfaffians, in *Essays in geometric group theory*, Ramanujan Math. Soc. Lect. Notes Ser. **9** (2009), 145–159.
- [30] Zeta functions of groups and enumeration in Bruhat-Tits buildings, Amer. J. Math. **126** (2004), 1005–1032.

Education and professional qualifications

11/2008	Habilitation in Mathematik and venia legendi, Düsseldorf
10/1999-09/2002	PhD in Pure Mathematics, University of Cambridge. Title: Zeta functions of groups and enumeration in Bruhat-Tits buildings. Supervisor: M. P. F. du Sautoy
10/1998-07/1999	Certificate of Advanced Study in Mathematics ('Part III of the Mathematical Tripos'), University of Cambridge
10/1996-09/1998	Reading Mathematics and Philosophy, Hamburg University, Germany. 'Vordiplom' in mathematics
10/1995-09/1996	Reading Mathematics and Philosophy, Leipzig University
07/1994	Abitur, JohSebBach-Gymnasium Windsbach (Bayern)

Awards and Research Grants

Awards and Research Grants		
2018–2021	DFG¹ grant for joint research project with B. Klopsch (Düsseldorf) and A. Fel'shtyn (Szczecin) on "Zeta functions of groups and dynamical systems" with in the Polish-German research initiative "Beethoven 2". Value: €197,000 (Bielefeld)	
07/2017-06/2020	DFG grant for project "Order zeta functions and resolutions of singularities" (co-PI with A. Frühbis-Krüger, Hannover). Value: \leqslant 132,600	
05/2016	Faculty of Mathematics Teaching Award "Goldener Wanderwischer" for best lecture course in the category "service teaching", Bielefeld.	
01/2015-12/2017	German-Israeli Foundation for Scientific Research and Development Grant "Subgroup and subring growth under base extension" (G-1246-304.6/2014; co-PI with M. M. Schein, Bar-Ilan University). Value: € 180,000	
07/2014-06/2017	Feodor-Lynen Research Stipend to visit E. A. O'Brien (Auckland), Alexander-von-Humboldt Foundation.	
07/2013-06/2016	DFG Schwerpunktprogramm 1489 'Algorithmic and Experimental Methods in Algebra, Geometry, and Number Theory' project on 'Toroidal methods for computing zeta functions of groups and rings' (VO-1248/3-1). Value: $\leq 239,600$	
07/2013-06/2017	DFG Sonderforschungsbereich 701 projects C10 'Local cohomology and support in representation theory' (co-PI with H. Krause) and C12 'Representation growth of arithmetic groups' (sole PI). Value: \leq 497.000 (C10) + \leq 248.500 (C12)	
06/2010	EPSRC 2 Small Grant (EP/H044779/1, with B. Klopsch, PI) to collaborate with U. Onn, Beersheva, Israel. Value: £13,238	
01/2010	EPSRC Overseas Travel Grant (EP/H044779/1) to collaborate with E. A. O'Brien, Auckland, NZ. Value: \pounds 7,712	
04/2009-12/2011	EPSRC First Grant (EP/F044194/1) for project 'Zeta functions of groups and rings and Igusa's local zeta function'. Value: £269,889	
02/2009	London Mathematical Society (LMS) Scheme 2 grant (with M. P. F. du Sautoy and B. Klopsch) to fund visit by M. Berman. Value: \pounds 1,200	

¹See http://gepris.dfg.de/gepris/person/1834343 for grant portfolio at DFG.
²See https://gow.epsrc.ukri.org/NGBOViewPerson.aspx?PersonId=-161402 for grant portfolio at EPSRC.

01/2009	EPSRC Small Grant (EP/G055408/1, with B. Klopsch, CI) to fund workshop 'Representations and Asymptotic Group Theory', April 2009, Southampton, and visit by N. Avni. Value: £14,740
11/2008, 03/2007	Two-week 'Research-in-Pairs' (RiP)-stays at Mathematisches Forschungs-institut Oberwolfach (MFO) to collaborate with B. Klopsch
07/2008	Royal Society Outgoing Short Visits Grant to visit E. A. O'Brien and B. Martin, both NZ. Value: $\pounds 2,680$
2007–2013	LMS Scheme 3 grant (with B. Klopsch, N. Nikolov) for research group South England Profinite Groups Meetings. Value: $\sim £1.000$ per year
09/2006-04/2008	Nuffield Foundation, Newly Appointed Lecturer's grant. Value: £4,800
06/2006-08/2006	Fond National Suisse, Bref Séjour Individuel. Value: CHF 10,870
10/2005-03/2006	Max-Planck-Gesellschaft, Weiterbildungsstipendium. Value: €8,808
10/2004-09/2005	DFG Forschungsstipendium (postdoctoral stipend). Value: €17,616
10/2003-09/2004	Linacre College, Oxford, Junior Research Fellowship (non-stipendiary)
10/2002-09/2004	EPSRC Postdoctoral Fellowship in Mathematics (GR/R93827/01), Oxford University. Value: £67,177
04/2001	Knight-Rayleigh-Prize, University of Cambridge
10/1999-09/2002	Studienstiftung des deutschen Volkes, Promotionsstipendium (PhD grant)
10/1999-09/2002	Cambridge European Trust, European Student Bursary
10/1998-06/1999	Deutscher Akademischer Austauschdienst (DAAD), Jahresstipendium
1996–2002	Studienstiftung des deutschen Volkes, membership

Selected talks and presentations

02/2020Combinatorial Coworkspace, Haus Bergkranz, Kleinwalsertal03/2019Algebra and Combinatorics Seminar, University of Auckland02/2019Algebra and Topology Seminar, Australian National University, Canberra09/2018Workshop 'Zeta functions of groups and dynamical systems', Düsseldorf09/2018Conference 'Groups, Geometries, and Representations 2018', Oxford09/2017Algebra Seminar, Leiden07/2017Mathematical Colloquium, Karlsruhe07/2017Mathematical Colloquium, Paderborn12/2016Seminaire Geometrie et Theorie des Modeles, ENS Paris08/2016Workshop on Computational Group Theory, MFO05/2016Algebra Seminar, Kaiserslautern05/2016Dresdner Mathematisches Seminar07/2015Mathematisches Kolloquium, Hannover03/2015Algebra and Combinatorics Seminar, University of Auckland12/2014Mathematisches Kollquium, Düsseldorf	12/2020	Colloquium Institute for Algebra and Geometry, Otto-von-Guericke Universität Magdeburg
O2/2019 Algebra and Topology Seminar, Australian National University, Canberra O9/2018 Workshop 'Zeta functions of groups and dynamical systems', Düsseldorf O9/2018 Conference 'Groups, Geometries, and Representations 2018', Oxford O9/2017 Algebra Seminar, Leiden O7/2017 Mathematical Colloquium, Karlsruhe O7/2017 Mathematical Colloquium, Paderborn 12/2016 Seminaire Geometrie et Theorie des Modeles, ENS Paris O8/2016 Workshop on Computational Group Theory, MFO O5/2016 Algebra Seminar, Kaiserslautern O5/2016 Dresdner Mathematisches Seminar O7/2015 Mathematisches Kolloquium, Hannover O3/2015 Algebra and Combinatorics Seminar, University of Auckland	02/2020	Combinatorial Coworkspace, Haus Bergkranz, Kleinwalsertal
09/2018 Workshop 'Zeta functions of groups and dynamical systems', Düsseldorf 09/2018 Conference 'Groups, Geometries, and Representations 2018', Oxford 09/2017 Algebra Seminar, Leiden 07/2017 Mathematical Colloquium, Karlsruhe 07/2017 Mathematical Colloquium, Paderborn 12/2016 Seminaire Geometrie et Theorie des Modeles, ENS Paris 08/2016 Workshop on Computational Group Theory, MFO 05/2016 Algebra Seminar, Kaiserslautern 05/2016 Dresdner Mathematisches Seminar 07/2015 Mathematisches Kolloquium, Hannover 03/2015 Algebra and Combinatorics Seminar, University of Auckland	03/2019	Algebra and Combinatorics Seminar, University of Auckland
Conference 'Groups, Geometries, and Representations 2018', Oxford 09/2017 Algebra Seminar, Leiden 07/2017 Mathematical Colloquium, Karlsruhe 07/2017 Mathematical Colloquium, Paderborn 12/2016 Seminaire Geometrie et Theorie des Modeles, ENS Paris 08/2016 Workshop on Computational Group Theory, MFO 05/2016 Algebra Seminar, Kaiserslautern 05/2016 Dresdner Mathematisches Seminar 07/2015 Mathematisches Kolloquium, Hannover 03/2015 Algebra and Combinatorics Seminar, University of Auckland	02/2019	Algebra and Topology Seminar, Australian National University, Canberra
09/2017 Algebra Seminar, Leiden 07/2017 Mathematical Colloquium, Karlsruhe 07/2017 Mathematical Colloquium, Paderborn 12/2016 Seminaire Geometrie et Theorie des Modeles, ENS Paris 08/2016 Workshop on Computational Group Theory, MFO 05/2016 Algebra Seminar, Kaiserslautern 05/2016 Dresdner Mathematisches Seminar 07/2015 Mathematisches Kolloquium, Hannover 03/2015 Algebra and Combinatorics Seminar, University of Auckland	09/2018	Workshop 'Zeta functions of groups and dynamical systems', Düsseldorf
07/2017 Mathematical Colloquium, Karlsruhe 07/2017 Mathematical Colloquium, Paderborn 12/2016 Seminaire Geometrie et Theorie des Modeles, ENS Paris 08/2016 Workshop on Computational Group Theory, MFO 05/2016 Algebra Seminar, Kaiserslautern 05/2016 Dresdner Mathematisches Seminar 07/2015 Mathematisches Kolloquium, Hannover 03/2015 Algebra and Combinatorics Seminar, University of Auckland	09/2018	Conference 'Groups, Geometries, and Representations 2018', Oxford
07/2017 Mathematical Colloquium, Paderborn 12/2016 Seminaire Geometrie et Theorie des Modeles, ENS Paris 08/2016 Workshop on Computational Group Theory, MFO 05/2016 Algebra Seminar, Kaiserslautern 05/2016 Dresdner Mathematisches Seminar 07/2015 Mathematisches Kolloquium, Hannover 03/2015 Algebra and Combinatorics Seminar, University of Auckland	09/2017	Algebra Seminar, Leiden
12/2016 Seminaire Geometrie et Theorie des Modeles, ENS Paris 08/2016 Workshop on Computational Group Theory, MFO 05/2016 Algebra Seminar, Kaiserslautern 05/2016 Dresdner Mathematisches Seminar 07/2015 Mathematisches Kolloquium, Hannover 03/2015 Algebra and Combinatorics Seminar, University of Auckland	07/2017	Mathematical Colloquium, Karlsruhe
08/2016Workshop on Computational Group Theory, MFO05/2016Algebra Seminar, Kaiserslautern05/2016Dresdner Mathematisches Seminar07/2015Mathematisches Kolloquium, Hannover03/2015Algebra and Combinatorics Seminar, University of Auckland	07/2017	Mathematical Colloquium, Paderborn
05/2016 Algebra Seminar, Kaiserslautern 05/2016 Dresdner Mathematisches Seminar 07/2015 Mathematisches Kolloquium, Hannover 03/2015 Algebra and Combinatorics Seminar, University of Auckland	12/2016	Seminaire Geometrie et Theorie des Modeles, ENS Paris
05/2016 Dresdner Mathematisches Seminar 07/2015 Mathematisches Kolloquium, Hannover 03/2015 Algebra and Combinatorics Seminar, University of Auckland	08/2016	Workshop on Computational Group Theory, MFO
07/2015 Mathematisches Kolloquium, Hannover 03/2015 Algebra and Combinatorics Seminar, University of Auckland	05/2016	Algebra Seminar, Kaiserslautern
03/2015 Algebra and Combinatorics Seminar, University of Auckland	05/2016	Dresdner Mathematisches Seminar
· · · · ·	07/2015	Mathematisches Kolloquium, Hannover
12/2014 Mathematisches Kollquium, Düsseldorf	03/2015	Algebra and Combinatorics Seminar, University of Auckland
	12/2014	Mathematisches Kollquium, Düsseldorf

09/2014	Third International Workshop on Zeta Functions in Algebra and Geometry, Guanajuato, Mexico
05/2014	Amitsur Algebra Seminar, Hebrew University, Jerusalem
05/2014	Algebra Seminar, Bar-Ilan University
03/2014	Workshop 'Experimental Methods in Computational Algebra', Hannover
10/2013	Conference 'Geometry, Groups and Topology 2013', Karlsruhe
08/2013	Groups St Andrews 2013 in St Andrews (one hour speaker)
04/2013	Workshop 'Arithmetic Groups', Banff International Research Station
11/2012	Darstellungstheorietage Magdeburg (contributed talk)
06/2012	Norddeutsches Gruppentheorie-Kolloquium 2012, Braunschweig
09/2011	DMV Jahrestagung, Minisymposium Geometric Group Theory, Köln
03/2011	North British Geometric Group Theory seminar, Durham
03/2011	Algebra and Geometry seminar, Bristol
05/2010	Second international workshop on zeta functions in algebra and geometry, Palma de Mallorca
03/2010	Algebra seminar, University of Auckland
02/2010	Algebra seminar, Oxford
11/2009	Number theory seminar, Oxford
07/2009	Mathematische Gesellschaft, Göttingen
06/2009	International conference Activités Additives et Analytiques, Lille
05/2009	Algebra seminar, Oxford
03/2009	London Algebra Colloquium
11/2008	Habilitationskolloquium, Düsseldorf
10/2008	Algebra seminar, Nottingham
07/2008	Algebra seminar, University of Auckland, NZ
06/2008	Workshop on Profinite and Asymptotic Group Theory, MFO
09/2007	Conference 'Profinite and Asymptotic Group Theory' (to celebrate Professor D. Segal's 60th birthday), Trento, Italy
06/2007	(First) International Workshop on Zeta Functions in Algebra and Geometry, Segovia
02/2007	Number Theory and Algebraic Geometry Joint Seminar K.U. Leuven - U. Gent.
01/2007	Pure Mathematics Colloquium, Durham
11/2006	Algebra seminar, Birmingham
10/2006	Algebra seminar, Oxford
05/2006	Workshop on $\operatorname{Pro-}p$ Extensions of Global Fields and $\operatorname{pro-}p$ Groups, MFO
04/2006	Seminaire Methodes Algebriques Discretes, EPF, Lausanne
03/2006	Number Theory Lunch Seminar, MPIfM, Bonn

05/2005	Conference on Asymptotic and Probabilistic Methods in Geometric Group Theory, Geneva (non-plenary talk)
03/2005	Number Theory Lunch Seminar, $\mathit{Max-Planck-Institut}$ für $\mathit{Mathematik}$, Bonn.
06/2004	Mathematisches Kolloquium, Düsseldorf
06/2004	Rencontres Arithmétiques, Caen
01/2004	Algebra seminar, Oxford
12/2003	AMS Regional Meeting, Bangalore (non-plenary talk)
11/2003	'Counting on buildings' (interdisciplinary talk) Linacre College, Oxford
05/2003	Workshop Profinite groups and discrete subgroups of Lie groups, MFO
06/2002	Algebra seminar, Cambridge

Organisation of conferences, workshops etc.

09/2021	week-long CIRM-conference 'New Trends Around Profinite Groups', Trento (member of Organizing Committee)
05/2021	week-long 'Fifth International Workshop on Zeta Functions in Algebra and Geometry', Nice (member of scientific committee)
03/2021	First Joint Meeting of the Israel Mathematical Union and the German Mathematical Society, Jerusalem (member of Program Committee) – meeting cancelled due to covid-19 pandemic
05/2017	week-long 'Fourth International Workshop on Zeta Functions in Algebra and Geometry', Bielefeld University (member of organizing committee, partly supported by DFG and Foundation Compositio Mathematica)
09/2013	four-day workshop 'Zeta functions of groups and related algebraic structures', University of Padova (with E. Detomi, B. Klopsch and A. Lucchini, partly supported by LMS)
03/2012	two-day workshop 'Asymptotic Group Theory and Model Theory', Royal Holloway University of London (with B. Klopsch, supported by EPSRC)
06/2009	week-long workshop 'Representation Growth' (Batsheva-Seminar), Midrasha Sde-Boker, Israel (with N. Avni and U. Onn)
04/2009	two-day workshop 'Representations and Asymptotic Group Theory', Southampton (with B. Klopsch, supported by EPSRC)
2007–2013	research group 'South England Profinite Groups Meetings' (jointly with B. Klopsch, N. Nikolov, three meetings per year, supported by LMS)

Other professional services and memberships

Referee for Acta Arithm., Alg. Combinat., Amer. J. Math., Ann. Comb., Arch. Math. (3), Comm. Algebra, Contemp. Math., Electron. J. Combin., Groups Geom. Dyn., Int. J. Alg. Comp., Israel J. Math. (3), J. Algebra (5), J. Group Theory (5), J. Lond. Math. Soc. (4), J. Number Theory, Monatsh. Math., Math. Proc. Cambridge Phil. Soc., Nagoya Math. J., Proc. Lond. Math. Soc. (4), Quart. J. Math., Revista Colombiana de Matemáticas, Rev. Un. Mat. Argentina, Trans. Amer. Math. Soc. (2)

Twelve contributions to the Mathematical Reviews (AMS)

since 2002 Member of the London Mathematical Society

since 2001 Member of the Cambridge Philosophical Society

Postgraduate teaching and supervision of PhD students and postdocs

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10/2020-present	Postdoc Dr. Viola Siconolfi
09/2019-present	Postdoc Dr. Seungjai Lee
09/2018-present	Postdoc Dr. Josh Maglione
09/2017–present	Postdoc Dr. Mima Stanojkovski (currently on leave at MPI MIS Leipzig (Sturmfels group))
01/2016-08/2019	Postdoc Dr. Alastair Litterick (now Lecturer in Pure Mathematics, University of Sussex)
05/2015-09/2018	Postdoc Dr. Angela Carnevale (now Lecturer at NUI Galway)
04/2016-09/2017	Postdoc Dr. Ann Kiefer (now postdoc at Frije Universiteit Brussel)
10/2015-06/2017	Postdoc Dr. Thomas Cauwbergs
03/2014-02/2016	Postdoc Dr. Matthew Levy
10/2011-08/2016	Postdoc Dr. Tobias Rossmann (now Lecturer at NUI Galway)
09/2013-09/2015	Postdoc Dr. Duong H. Dung (now Lecturer at the University of Wollongong)
04/2009–12/2011	Postdoc Dr. Alexander Stasinski (now Senior Lecturer at Durham University)
10/2019-present	PhD student Marlies Vantomme
08/2018-present	PhD student Elena Tielker
06/2015-11/2018	PhD student Paula Lins (PhD awarded 01/2019)
10/2010-09/2015	PhD student Michele Zordan (PhD awarded 04/2016)
10/2008-10/2012	PhD student Rob Snocken (PhD awarded 12/2013)
06/2009	Lecturer at and co-organizer of week-long Batsheva-Seminar on 'Representation Growth', Midrasha Sde-Boker, Israel
09/2007	Tutor and lecturer at week-long LMS/EPSRC Short Course: Asymptotic methods in infinite group theory, organised by D. Segal, Oxford

Undergraduate Teaching

2011–present Lecture courses taught at Bielefeld include:

- Mathematics for Chemistry (Bachelor-level, 2017, 2020)
- Mathematics for Computer Scientists (Bachelor-level, 2019)
- Lie Algebras and Lie Groups (Master-level, 2017)
- Commutative Algebra and Algebraic Geometry (Master-level, 2017, 2020)
- Algebraic Number Theory (Master-level, 2016, 2020)
- Linear Algebra for Physicists (one-semester course, 2015/16)
- Algebra (two-semester course, Bachelor-level, 2014/15)
- Lie Algebras (Master-level, 2014)

	 Commutative Algebra (Master-level, 2011/12) Linear Algebra (2012/13, 2013/14 2017/18) Groups and Symmetries (Bachelor-level, 2012)
2006–11	Lecture courses taught at Southampton include:
	 Galois Theory (2010/11) Groups and Symmetries (2009/11) Group Theory and its Applications (2008/09) Elementary Number Theory (2006-09)
08/2009	Nuffield Foundation, Undergraduate Research Bursary for six-week project 'Poles of zeta functions of groups and rings' at Southampton
2006–11	Semester projects supervised at Southampton:
	 Elliptic curves and cryptography The arithmetic of elliptic curves There are infinitely many Carmichael numbers
2008–11	(Co-)organisation of 'Consolidation classes', Southampton
2000-04	Numerous supervisions and tutorials at Cambridge and Oxford
1996–98	'Übungshelfer' (=teaching assistant) for various mathematics and service courses, Hamburg

• Profinite Groups (Master-level, 2013)

Administration

2021-present	Member of the Senate, Bielefeld
2011-present	Member of several professorial search committees
2014–present	BAföG-Advisor Mathematics, Bielefeld
2012–2021	Member of 'Fakultätskonferenz Mathematik', Bielefeld
2011-2020	Coordinator of 'Mathematisches Kolloquium', Bielefeld
2009–11	Senate representative for Mathematics, Southampton
2007–11	ERASMUS Coordinator for Mathematics, Southampton
2007–11	Degree programme coordinator 'Mathematics and a modern language', Southampton

Bielefeld, April 2021