

## Personal information

<i>Name</i>	Martin Palmer-Anghel
<i>Current position</i>	Wissenschaftlicher Mitarbeiter, Universität Bonn, Germany
<i>Nationalities</i>	British and German
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## Qualifications and employment history

2015–2016	Postdoctoral researcher at Université Paris 13
2013–2015	Postdoctoral researcher at the University of Münster (WWU Münster)
2009–2013	University of Oxford: DPhil — supervised by Prof. Ulrike Tillmann Thesis title: <i>Configuration spaces and homological stability</i> Submitted: December 2012; defended: February 2013
2005–2009	University of Oxford: MMath (1 <sup>st</sup> class)

## Publications

- *Homological stability for oriented configuration spaces*  
[Transactions of the American Mathematical Society](#) 365 (2013), 3675–3711
- *A twisted homology fibration criterion and the twisted group-completion theorem* (with J. Miller)  
[Quarterly Journal of Mathematics](#) 66.1 (2015), 265–284
- *Scanning for oriented configuration spaces* (with J. Miller)  
[Homology, Homotopy and Applications](#) 17.1 (2015), 35–66
- *On homological stability for configuration spaces on closed background manifolds* (with F. Cantero)  
[Documenta Mathematica](#) 20 (2015), 753–805

## Preprints

- *Twisted homological stability for configuration spaces*  
[arXiv:1308.4397](#) (submitted)
- *Homological stability for subgroups of surface braid groups* (with T. Tran)  
[arXiv:1410.0923](#) (accepted for publication in *Homology, Homotopy and Applications*)  
*Note: the first version of this paper was authored solely by T. Tran; I became a co-author at a later stage.*
- *Triple-crossing number and moves on triple-crossing link diagrams* (with C. Adams and J. Hoste)  
[arXiv:1706.09333](#) (submitted)
- *A comparison of twisted coefficient systems*  
[arXiv:1712.06310](#)
- *Homological stability for moduli spaces of disconnected submanifolds* [in preparation]

## Selected talks

- On twisted homological stability for configuration spaces:
  - November 2017: Séminaire Algèbre et topologie, IRMA, Strasbourg
  - May 2017: Oberseminar Topologie, Bonn
  - March 2017: Topology seminar, Barcelona
  - May 2013: Oberseminar Topologie, Münster
- On configuration spaces on closed background manifolds:
  - April 2016: Topology seminar, Aberdeen
  - October 2015: Annual meeting of the GDR 2875, *Topologie algébrique et applications*, Toulouse
  - October 2015: Séminaire de topologie, Lille
  - June 2015: Séminaire de topologie algébrique, Louvain-la-Neuve
  - April 2015: Topology seminar, Oxford
  - March 2015: Séminaire de l'équipe topologie algébrique, Paris 13
  - March 2015: Séminaire de topologie, géométrie et algèbre, Nantes
- On twisted group-completion and scanning for oriented configuration spaces:
  - January 2015: Leray seminar, Münster

- On homological stability for moduli spaces of disconnected submanifolds:
  - June 2016: Conference on *Topology of manifolds*, Lisbon
  - December 2015: Séminaire de Topologie, Institut de Mathématiques de Jussieu-Paris Rive Gauche
  - July 2013: Young topologists' meeting, Lausanne
  - March 2013: Topology workshop of the British mathematical colloquium, Sheffield
  - February 2013: Topology seminar, Aberdeen
- On homological stability for oriented configuration spaces:
  - July 2012: Young topologists' meeting, Copenhagen
  - January 2012: Topology seminar, Copenhagen
  - December 2011: Algebra and topology seminar, Swansea
  - September 2011: Workshop on *Homotopy theory*, Oberwolfach

## Teaching

**Bonn** (2016–present):

- Assistent for the course *Einführung in die Algebra* by Prof. Catharina Stroppel
- Jointly running an undergraduate seminar on *Riemann surfaces* with Prof. Carl-Friedrich Bödigheimer
- Lecturer for a master's-level course on *Exotic spheres*
- Assistent and Übungsgruppenleiter for the course *Topologie I* by Prof. Carl-Friedrich Bödigheimer

**Münster** (2013–2015):

- Übungsgruppenleiter for the course *Topologie 3* by Prof. Michael Weiss.
- Substitute lecturer for a course on *Selected topics in topology* by Prof. Michael Joachim.
- Übungsgruppenleiter for a course on *Knot theory* by Prof. Michael Weiss.

**Oxford** (2009–2012):

- Teaching assistant for 3<sup>rd</sup>/4<sup>th</sup> year courses *Lie groups* (by Prof. Ulrike Tillman), *Topology and groups* (by Prof. Marc Lackenby) and *Algebraic topology* (by Prof. Ulrike Tillmann).
- Class tutor, including running all revision classes before exams, for the *Algebraic topology* course.
- Tutor for several 1<sup>st</sup> and 2<sup>nd</sup> year algebra courses at St John's College and at Merton College.
- Assistent interviewer in 2011 for undergraduate admissions at Merton College.

**Other:**

- 5-lecture mini-course *Introduction to exotic spheres* (based on my lecture course at Bonn; see above) at the Institute of Mathematics of the Romanian Academy, in August/September 2017

## Undergraduate and graduate supervision

- Christopher Fillmore (M; current)
- Genta Latifi (M; current) *Vertical configuration spaces and homological stability*
- David Göckede (B; current) *The Alexander and HOMFLY polynomials via Markov functions*
- Lara Glessen (B; summer 2017) *Linearity of the braid groups*

(All students at the University of Bonn M = master's-level B = bachelor's-level)

## Selected conferences attended

- 10.17 • Paris Diderot: Colloque du GDR 2875, *Topologie algébrique et applications*
- 09.17 • Oxford: CMI-LMS research school on *Algebraic topology of manifolds*
- 06.17 • Münster: Conference on *Groups, manifolds and K-theory*
- 05.17 • Toulouse: Conference on *Quantum topology and geometry*
- 04.17 • Cambridge (Isaac Newton Institute): Workshop on *Physics and knot homologies*
- 10.16 • Bonn: *Configuration spaces and moduli spaces in homotopy theory*
- 08.16 • Berlin: Workshop on symplectic field theory
- 07.16 • Ancient Olympia: Conference “*Knots in Hellas*”
- 06-07.16 • Lisbon: Conference on *Topology of manifolds*
- 05.16 • Bonn: Workshop on *Categorification*
- 03.16 • La Llagonne: Winter school on *differentiable structures on spheres*
- 02.16 • Lille: École thématique CNRS – *Winter braids*
- 11.15 • Copenhagen: Workshop on *Automorphisms of free groups*
- 10.15 • Toulouse: Colloque du GDR 2875, *Topologie algébrique et applications*
- 09-10.15 • Oxford: Clay workshop on *Algebraic topology: manifolds unlocking higher structures*
- 07-08.15 • Bonn: Hausdorff trimester program *Homotopy theory, manifolds, and field theories*
- 06.15 • Münster: Workshop on *Functor calculus* (for which I was a co-organiser)

- 05.15 • Oberwolfach: seminar on *Topological combinatorics of configuration spaces*
- 03.15 • Oberwolfach: workshop on *Homotopy theory*
- 09.14 • Nantes: *Loop spaces in geometry and topology*
- 07.14 • London: Workshop on *Homological methods in algebra, geometry and physics*
- 06.14 • Dubrovnik: Conference on *Manifolds, K-theory and related topics*
- 01.14 • Berkeley: Introductory workshop of the MSRI *Algebraic topology* semester
- 08.13 • Copenhagen: Workshop and masterclass on homological stability
- 05.13 • Nantes: Conference on *Algebra and topology*
- 03.13 • Sheffield: British mathematical colloquium
- 12.12 • Oxford: *Aspects of topology*
- 09.12 • Cambridge: British topology meeting
- 07.12 • Stanford: Symposium on *Algebraic topology: applications and new directions*
- 07.12 • Stanford: West coast algebraic topology summer school on *Algebraic K-theory*
- 05-06.12 • Oberwolfach: seminar on *Surgery theory*
- 04.12 • Swansea: Workshop on  $\infty$ -categories,  $\infty$ -operads and homotopy type theory
- 09.11 • Oberwolfach: workshop on *Homotopy theory*
- 09.11 • Edinburgh: British topology meeting
- 07.11 • Utah (PCMI): Summer school on *Moduli spaces of Riemann surfaces*
- 10.10 • Bonn: Autumn school on *Graphs, groups and surfaces*
- 09.10 • Oxford: British topology meeting
- 08.10 • Oregon: Summer school on *Operator algebras and conformal field theory*
- 08.10 • Oregon: West coast algebraic topology summer school on *Homotopy theory of moduli spaces*

### **Organisation of scientific meetings**

- I was a co-organiser of the [Münster functor calculus workshop](#), which took place in June 2015.
- I was a “demonstrator” for the Clay Mathematics Institute research school on *Algebraic topology of manifolds* at Oxford in September 2017

### **Memberships of scientific societies**

- I am an ordinary member of the London Mathematical Society (LMS).

### **Other professional activities**

- Reviewing for Zentralblatt ([link to list of reviews](#)).
- Refereeing for the journals Q. J. Math., Trans. AMS, Proc. AMS and Homology Homotopy Appl.

### **Languages**

- English (native)
- German (level: ~C1)
- French (level: ~B2)
- Romanian (level: ~B1)