

# Curriculum Vitae

October 2014

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Born March 25, 1985 in Germany

## Education and Work

06/2004 Abitur at Max-Steenbeck-Gymnasium Cottbus (Grade: 1.0).  
10/2004 – 09/2008 Diplom in mathematics at TU Berlin (Grade: 1.0, with distinction).  
10/2008 – 08/2011 Ph.D. with Prof. Günter M. Ziegler at TU Berlin and later at FU Berlin.  
Member and in 2010/11 student representative of Berlin Mathematical School. Thesis on ‘Equivariant topology methods in discrete geometry’ (Grade: summa cum laude).  
09/2011 – 07/2012 Member of IAS, Princeton.  
08/2012 – 03/2013 Visitor at IHES, Bures-sur-Yvette.  
04/2013 – 09/2013 Visitor at ETH Zürich, and in between:  
08/2013 – 09/2013 Visitor at INIMS, Cambridge.  
10/2013 – 09/2015 Researcher at MPIM, Bonn.

## Awards and Fellowships

04/2002 Winner of federal round of Deutschen Mathematikolympiade.  
02/2005 Winner of Bundeswettbewerb Mathematik.  
04/2005 – 09/2008 Fellow of Studienstiftung des dt. Volkes.  
09/2006 – 05/2007 Foreign exchange fellowships of TU Berlin (TASSEP program) and of Studienstiftung for an exchange year at University of Toronto.

- 11/2008 Award from the Institute for Mathematics of TU Berlin for the best diploma in mathematics of the year.
- 10/2008 – 03/2009 Full research assistant at DFG research group Polyhedral Surfaces.
- 04/2009 – 08/2011 Fellow of Deutschen Telekom Stiftung.
- 03/2010 Erwin-Stephan-Preis for my diploma (4000 €).
- 09/2011 – 07/2012 NSF Grant for my year at IAS.
- 08/2011 – 09/2012 EPDI fellowship, awarded subsequently by IHES, FIM (ETH Zürich), and INIMS.
- 11/2012 Ernst-Reuter-Preis for my dissertation (5000 €).

## Further Stays Abroad

- 09/2006 – 05/2007 Exchange year at University of Toronto.
- 01/2009 – 03/2009 DocCourse on Discrete and Computational Geometry at Centre de Recerca Matemàtica (Barcelona).
- 10/2009 – 02/2010 Visiting Scientist at University of Washington, Seattle, visiting Isabella Novik.
- 08/2010 – 10/2010 Research travel along the US west coast, visiting Gunnar Carlsson (Stanford), Isabella Novik (U Washington), Jesus De Loera (UC Davis), Bernd Sturmfels (UC Berkeley), the Klee and Grünbaum conference (U Washington) und FPSAC'2010 (San Francisco State University).

## Talks

- 09/2008 Workshop Topological Combinatorics, TU Berlin.
- 01/2009 Workshop on Discrete Differential Geometry, Oberwolfach.
- 05/2009 CGTA-Seminar, University of Belgrade.
- 10/2009 Cascade Topology Seminar, University of Oregon, Eugene.
- 01/2010 Algebraic Topology Seminar, PIMS, UBC, Vancouver.
- 06/2010 Colloquium talk at Mathematical Institute of the Serbian Academy of Sciences, Belgrad.
- 06/2010 Analysis, Topology and Applications 2010, Vrnjačka Banja (Serbia).
- 10/2010 Arbeitsgemeinschaft Topological Robotics, Oberwolfach.
- 11/2010 Charles University, Prague.
- 02/2011 Workshop on Combinatorial and Geometric Topology, Oberwolfach.
- 04/2011 Arbeitsgemeinschaft Rational Homotopy Theory, Oberwolfach.
- 04/2011 Spring school in discrete probability, ergodic theory and combinatorics, Graz.
- 05/2011 Rényi Institut, Budapest (2 talks).
- 06/2011 Conference FPSAC'2011, Reykjavik.

07/2011 Workshop on Modern Graph Theory with Applications to Geometric Group Theory, Bedlewo.  
 07/2011 Conference Applied Algebraic Topology, ETH Zürich.  
 09/2011 Workshop on Discrete Geometry, Fields Institute Toronto.  
 09/2011 School of Mathematics Postdoc talks, IAS, Princeton.  
 10/2011 Mathematical Conversations Seminar, IAS, Princeton.  
 11/2011 Computational Topology Conference, Fields Insitute Toronto.  
 11/2011 Algebraic Topology Seminar, Princeton University.  
 11/2011 Discrete Mathematics Seminar, Rutgers University.  
 12/2011 Colloquium talk, Vassar College, Poughkeepsie.  
 02/2012 Workshop on Topology: Identifying Order in Complex Systems, Rutgers University.  
 02/2012 Discrete Mathematics Seminar, IAS, Princeton.  
 02/2012 Princeton-Rider Workshop on Homotopy theory and toric spaces, Princeton University.  
 03/2012 Discrete Geometry Seminar, Cornell University.  
 03/2012 Algebraic Topology Seminar, Cornell University.  
 03/2012 Discrete Math Seminar, Princeton University.  
 10/2012 IHES, Bures-sur-Yvette.  
 11/2012 Topology Seminar, Université de Genève.  
 12/2012 Topology Seminar, University of Copenhagen.  
 02/2013 IHES, Bures-sur-Yvette.  
 04/2013 Arbeitsgemeinschaft Limits of Structures, Oberwolfach.  
 05/2013 Oberseminar Differentialgeometrie, Augsburg University.  
 07/2013 Mittagsseminar Theory of Combinatorial Algorithms, ETH Zürich.  
 07/2013 Polynomial Optimization Workshop, Isaac Newton Institute, Cambridge.  
 09/2013 Sandia National Labs, Livermore (2 talks).  
 09/2013 Geometry Seminar, ETH Zürich.  
 11/2013 IST Austria, Vienna.  
 11/2013 Oberseminar Geometry and Topology, MPIM Bonn.  
 12/2013 Oberseminar Geometry and Topology, MPIM Bonn.  
 12/2013 Symposium about Mathematics, University of Zürich.  
 01/2014 Geometry Seminar, University of Cologne.  
 02/2014 Karlsruhe Institute of Technology.  
 02/2014 Winter Workshop, University of Hannover.  
 02/2014 Colloquium, University of Rochester.  
 04/2014 Mini-course on spectral sequences, MPIM, Bonn.  
 05/2014 MPI-Oberseminar, MPIM, Bonn.  
 10/2014 Number theory seminar, MPIM, Bonn.  
 11/2014 Dutch Intercity Seminar Number Theory, Universiteit Leiden.  
 11/2014 Reinhold-Baer-Kolloquium, Braunschweig.  
 12/2014 Number theory seminar, Bordeaux.

## Further Conferences, Short Visits

- 2006, 2007 Four seminar weeks Naturwissenschaftliches Kolleg der Studienstiftung on homotopy theory.
- 12/2008 Winter School on Discrete Optimization at the Hanoi Institute of Mathematics (Vietnam).
- 05/2009 Invitation to Mathematical Institute of the Serbian Academy of Sciences, Belgrad, by Pavle Blagojević.
- 01/2010 Invitation to PIMS, UBC, Vancouver, by Alejandro Adem.
- 09/2010 Summer School on Discretization in Geometry and Dynamics, BMS, Berlin.
- 11/2010 Visiting Jiří Matoušek and Marek Krčál at Charles University, Prague.
- 05/2011 Invitation to Rényi Institut, Budapest, by Imre Bárány.
- 03/2012 Visiting Tara Holm at Cornell University.
- 05/2012 Workshop on Triangulations, Oberwolfach.
- 05/2012 Panorama of Topology, A Conference in Honour of Bill Browder, Princeton University.
- 06/2012 Conference Graphs and Analysis, IAS, Princeton.
- 06/2012 Visiting Richard Stanley at MIT.
- 06/2012 Conference Topology & Groups, FU Berlin.
- 10/2012 Arbeitsgemeinschaft Ergodic Theory and Combinatorial Number Theory, Oberwolfach.
- 05/2013 Arbeitstagung, MPIM Bonn.
- 09/2013 Invitation to Sandia National Labs, Livermore.
- 11/2013 Invitation to IST Austria, Vienna, by Uli Wagner.
- 09/2014 Invitation to MPI MIS, Leipzig, by Jürgen Jost.