Marie-Charlotte Brandenburg

Curriculum Vitæ

Current as of July 11, 2020

Arnimallee 2 14195 Berlin

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Education and Professional Experience

10/2019 - Freie Universität Berlin

to date Ph.D. Student

Research Groups: Discrete Geometry, Discrete Algebraic Geometry

Advisor: Prof. Rainer Sinn

10/2017 - Freie Universität Berlin

05/2019 M.Sc. Mathematics

Master Thesis: Competitive Equilibrium and Lattice Polytopes

Advisor: Prof. Christian Haase

10/2016 – Minodes GmbH

10/2017 Data Analyst, Business Intelligence

10/2012 - Freie Universität Berlin

09/2017 B.Sc. Mathematics

Bachelor Thesis: A 4-Simple 4-Simplicial 8-Polytope

Advisor: Prof. Günter Ziegler

Preprint

2020 Multivariate Volume, Ehrhart and h*-Polynomials of Polytropes

joint work with Sophia Elia and Leon Zhang

Invited Talks

2019 Reseach Seminar Algebra and Geometry, Otto-von-Guericke-Universität Magdeburg, Germany

Competitive Equilibrium and Lattice Polytopes

2018 Colloquium Graduiertenkolleg Facets of Complexity, Berlin, Germany

Product-Mix Auctions, Competitive Equilibrium and Lattice Polytopes

Posters

2019 Women in Algebra and Symbolic Computing, Bad Dürkheim, Germany

Multivariate Volume and Ehrhart Polynomials of Polytropes

Teaching

2020 Linear Algebra II

Teaching Assistant

Bachelor course, Freie Universität Berlin

2019 Panorama der Mathematik

Teaching Assistant

Bachelor course, Freie Universität Berlin

2018 Geometry

Teaching Assistant

Bachelor/Master course, Freie Universität Berlin

Service

2019 Co-organizer for the Workshop *AG*+ *Research Retreat*

Extended Stays

06/2019 – 09/2019	Max Planck Institut for Mathematics in the Sciences Leipzig, Germany Research Group: Non-Linear Algebra
01/2019 – 02/2019	Simons Institute for the Theory of Computing Berkeley, CA, USA Program: Geometry of Polynomials

Conferences and Workshops

06/2020	Algebraic and Tropical Online Meetings, online summer school
04/2020	Algebraic Combinatorics Online Workshop, online
01/2020	11th Polymake Conference and Developer Meeting, Leipzig, Germany
12/2019	AG+ Research Retreat, Döllnsee, Germany
12/2019	Women in Algebra and Symbolic Computation, Bad Dürkheim, Germany
12/2019	Workshop on Polytopes and Discrete Geometry, Berlin, Germany
10/2019	Opening Conference of the Thematic Einstein Semester on Algebraic Geometry,
10/2019	Berlin, Germany
10/2019	Fall School of the Thematic Einstein Semester on Algebraic Geometry, Berlin, Ger-
10/2019	
09/2019	many Workshop On Discrete Geometry With A View Towards Symplectic And Tropical Ge-
09/2019	
00 /2010	ometry, Cologne, Germany Real Applied Alechanic Compature Realing Company
09/2019	Real Applied Algebraic Geometry, Berlin, Germany
09/2019	Convexity Day, Leipzig, Germany
07/2019	Non-Archimedean and Tropical Geometry, Regensburg, Germany
06/2019	Workshop on Non-Linear Algebra, Leipzig, Germany
06/2019	Network Games, Tropical Geometry and Quantum Communication, Berlin, Germany
04/2019	Sage Days 98: Women in sage, Archanes, Crete, Greece
02/2019	Beyond Randomized Rounding and the Probabilistic Method, Berkeley, CA, USA
01/2019	Geometry of Polynomials Bootcamp, Berkeley, CA, USA
11/2018	Workshop on Algebraic Combinatorics, Berlin, Germany
10/2018	Workshop on Geometric and Topological Combinatorics, Berlin, Germany
10/2018	International Undergraduate Workshop, Jerusalem, Israel
05/2018	Combinatorics Day, Leipzig, Germany
03/2018	Workshop on Discrete Geometry and Topology, Berlin, Germany