Marie-Charlotte Brandenburg

Curriculum Vitæ
Current as of July 13, 2020

Arnimallee 2
14195 Berlin
marie.brandenburg@fu-berlin.de

Education and Professional Experience

10/2019 – to date	**Freie Universität Berlin** Ph.D. Student Research Groups: Discrete Geometry, Discrete Algebraic Geometry Advisor: Prof. Rainer Sinn
10/2017 – 05/2019	**Freie Universität Berlin** M.Sc. Mathematics Master Thesis: *Competitive Equilibrium and Lattice Polytopes* Advisor: Prof. Christian Haase
10/2016 – 10/2017	**Minodes GmbH** Data Analyst, Business Intelligence
10/2012 – 09/2017	**Freie Universität Berlin** B.Sc. Mathematics Bachelor Thesis: *A 4-Simple 4-Simplicial 8-Polytope* Advisor: Prof. Günter M. Ziegler

Preprint

2020	**Multivariate Volume, Ehrhart and h^*-Polynomials of Polytropes (arXiv:2006.01920)** 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 –   **Max Planck Institut for Mathematics in the Sciences**
09/2019   Leipzig, Germany
Research Group: Non-Linear Algebra

01/2019 –   **Simons Institute for the Theory of Computing**
02/2019   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,** Berlin, Germany
10/2019   **Fall School of the Thematic Einstein Semester on Algebraic Geometry,** Berlin, Germany
09/2019   **Workshop On Discrete Geometry With A View Towards Symplectic And Tropical Geometry,** Cologne, Germany
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