

# Marie-Charlotte Brandenburg

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## Curriculum Vitæ

Current as of July 10, 2020

Arnimallee 2

14195 Berlin

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## Education and Professional Experience

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- 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

## Invited Talks

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- 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

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- 2019 Women in Algebra and Symbolic Computing, Bad Dürkheim, Germany  
*Multivariate Volume and Ehrhart Polynomials of Polytopes*

## Teaching

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- 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

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

## Extended Stays

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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

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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, Greek  
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