

# Giulia Codenotti

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## Curriculum Vitae

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### Education

- 2016- present **PhD candidate**, *Freie Universität Berlin*, Berlin (Germany), Berlin Mathematical School, funded by Einstein foundation, Berlin.  
Advisors: Prof. Francisco Santos, Prof. Christian Haase
- 2013-2016 **Master of Science**, *University of Pisa*, Pisa (Italy), 110/110 cum laude.
- September 2014-July 2015 **Erasmus Exchange Program**, *Freie Universität Berlin*.
- 2010-2013 **Bachelor of Science**, *University of Pisa*, Pisa (Italy), 110/110 cum laude.  
Supported by the INDAM fellowship
- September 2012-December 2012 **Budapest Semester in Mathematics**, Budapest, Hungary.  
Highest honors

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### Publications

**Hollow polytopes of large width**, *Giulia Codenotti and Francisco Santos*, preprint: arXiv:1812.00916.

**Separation-type combinatorial invariants for triangulations of manifold**, *Giulia Codenotti, Francisco Santos, Jonathan Spreer*, preprint: arXiv:1808.04220.

**On f- and h- vectors of relative simplicial complexes**, *Giulia Codenotti, Lukas Katthän, Raman Sanyal*, to appear in Algebraic Combinatorics. Preprint: arXiv:1711.02729.

**Finding a fully mixed cell**, *Giulia Codenotti, Lena Walther*, to appear in the proceedings of Summer Workshop on Lattice Polytopes in Osaka.

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### Contributed talks

- 21 February 2019 **Hollow polytopes of large width**, *BMS student conference*, Freie Universität Berlin.
- 31 July 2018 **The covering minima of lattice polytopes**, *Summer Workshop on Lattice Polytopes*, Osaka University.
- 8 June 2018 **Encuentro Colombiano de Combinatoria**, *Universidad del Norte*, Separation index of triangulated spheres.

- 23 March 2018 **Graduate Student Meeting in Applied Algebra and Combinatorics**, *Universität Osnabrück*, On f-vectors and h-vectors of relative simplicial complexes.
- 1 March 2018 **CACAO Seminar**, *University of California, Davis*, On f-vectors and h-vectors of relative simplicial complexes.
- 28 April 2017 **"What is" student seminar**, *Berlin Mathematical School*, What are triangulated spheres and Pachner moves?.
- 20 March 2017 **MaPSS student seminar**, *University of Sydney*, Triangulated spheres and Pachner moves.

## Conferences and Workshops

- July 2018 **Summer Workshop on Lattice Polytopes**, *Osaka University*.
- 5-18 June 2018 **Encuentro Colombiano de Combinatoria**, *Universidad del Norte*.
- 7-18 May 2018 **Intense Research program on Discrete, Combinatorial and Computational Geometry**, *CRM Barcelona*.
- 22-24 March 2018 **Graduate Student Meeting in Applied Algebra and Combinatorics**, *Universität Osnabrück*.
- 12-16 March 2018 **Einstein Workshop on Discrete Geometry and Topology**, *Freie Universität Berlin*.
- August-December 2017 **Semester in Geometric and Topological Combinatorics**, *MSRI, Berkeley, USA*.  
Program associate
- June 19-23, 2017 **Discrete and Convex Geometry - Barany70**, *Renyi Institute, Budapest, Hungary*.
- June 04-09, 2016 **Convex, Discrete and Integral Geometry**, *Bedlewo, Poland*.
- December 12-15, 2016 **Einstein Workshop on Lattice Polytopes**, *Freie Universität Berlin, Berlin, Germany*.

## Mathematics and Community

- April 2017, 2018 **Girl's Day 2017-2018**.  
Organizer of a workshop at the Girl's Day at the Freie Universität, an event aimed at furthering high school girls' interest in Mathematics
- 2016-2017 **Graduate Student Women's group**.  
Organizer of meetings for Berlin female graduate students in Mathematics
- 2014-2016 **Made@Dm**.  
Participant in the student association Made@Dm for the popularization of mathematics

## References

- Prof. Francisco Santos, francisco.santos@unican.es, Universidad de Cantabria
- Prof. Dr. Günter Ziegler, gmziegler@zedat.fu-berlin.de, Freie Universität Berlin
- Prof. Dr. Christian Haase, haase@math.fu-berlin.de, Freie Universität Berlin