

# Michael Borinsky

Institute for Theoretical Studies  
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## Current position

2021-2026 *Advanced Fellow (5-year non-tenure-track position)*, Institute for Theoretical Studies, ETH Zürich

## Appointments held

2018-2021 *PostDoc* — Nikhef, Amsterdam, The Netherlands  
2014-2018 *PhD Student* — Humboldt Universität zu Berlin, Germany

## Education

2018 PhD in theoretical physics (grade: summa cum laude), Humboldt Universität zu Berlin  
Thesis: *Graphs in Perturbation Theory* — Advisor: *Dirk Kreimer*  
2013 MSc in physics, Humboldt Universität zu Berlin  
2011 BSc in physics, Humboldt Universität zu Berlin

## Grants, honours & awards

2020 Simons Fellowship for two month stay at the Isaac Newton Institute, Cambridge  
2019 Cash prize, Lise Meitner Thesis Award  
2018 Hardcover publication of my thesis by Springer and cash prize, Springer Thesis Award  
2015-2018 PhD scholarship: German National Merit Foundation (Studienstiftung)  
2013-2014 Full funding for orientation phase before my PhD, Humboldt Research Track Fellowship  
2010-2013 Undergraduate scholarship, German National Merit Foundation (Studienstiftung)

## Leadership and Community Engagement

09/2024 Organization of 5-day workshop on ‘Moduli spaces of graphs’ with K. Vogtmann at ETH  
08/2024 Organization of month long programme at the MPI, Bonn on ‘Combinatorics, Resurgence and Algebraic Geometry in Quantum Field Theory’ with R. Kaufmann, D. Kreimer and K. Yeats  
06/2024 Organization of 5-day workshop on ‘FORM development’ with T. Gehrman at the ETH  
09/2022 Org. of 5-day workshop on ‘Tropical Geometry and Feynman integrals’ with E. Panzer at ETH  
10/2021 Organization of a 2-day lecture series on Feynman integrals with A. Klemm and J. Brödel at ETH

## REFEREEING

*Canadian Mathematical Bulletin, Communications in Mathematical Physics, Communications in Number Theory and Physics, Discrete Mathematics, Electronic Journal of Combinatorics, Journal of High Energy Physics, Letters in Mathematical Physics, New Journal of Physics, Mathematical Physics Analysis and Geometry, Modern Physics Letters A, Nuclear Physics B, SIGMA*

## SUPERVISION AND MENTORING

2023	Andrea Favorito	supervision of MSc project, ETH Zürich
2022	Jean-Luc Portner	supervision of BSc project, ETH Zürich
2020	Robert Beekveldt	co-supervision of MSc project, Universiteit van Amsterdam

## OUTREACH ACTIVITIES

2023	Feature of my work with K. Vogtmann in <a href="#">Quanta Magazine</a>
2020	Feature of my <a href="#">math-pictographics</a> in ‘Seeing with Fresh Eyes’ by E. Tufte
2017	Co-organization of the ‘Day of Math’ at Humboldt University for high-school students
2017-present	Open-Source project to create <a href="#">hexaflexagons</a> after Martin Gardner

## Selected, recent invited talks

( $\geq 20$  invitations since August 2022 — a more exhaustive list is on my [website](#))

10/2023	IAS HEP Seminar, Princeton, US
07/2023	SIAM Conference on Applied Algebraic Geometry, Eindhoven, The Netherlands
06/2023	Center for Geometry and Topology, Copenhagen, Denmark
05/2023	Institute of Advanced Studies, Princeton, US
04/2023	MPI for Mathematics in the Sciences, Leipzig, Germany
03/2023	Colloquium, Utrecht, The Netherlands
12/2022	Newton Institute, Cambridge, UK
11/2022	Perimeter Institute, Waterloo, Canada
12/2022	CERN, Geneva, Switzerland
10/2021	Center for Geometry and Topology, Copenhagen, Denmark
03/2021	Institute of Advanced Studies, Princeton, US (virtual)

## Publications

Lists of my publications can be found on my [website](#), on [orcid](#), on [inspire](#) or on [arXiv](#), which is the most up-to-date source.

## Recent or regular international research visits

05/2023	One month visit, Institute for Advanced Studies, Princeton, US
11/2022	3-week visit, Perimeter Institute, Waterloo, Canada
10/2022	One month visit, MPI for Mathematics, Bonn, Germany
2022–	Regular visitor, MPI for Mathematics in the Sciences, Leipzig, Germany
2019–	Regular visitor, Department for Combinatorics & Optimization, U. Waterloo, Canada