

Stanford



Jacopo Borga

Szego Assistant Professor of Mathematics

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Szego Asst Professor, Mathematics

HONORS AND AWARDS

- Bernoulli Society New Researcher Award, Bernoulli Society (2021)
- PhD thesis distinction, Faculty of Science, University of Zurich (2021)
- Certificate of merit, Municipality of Ponzano Veneto (2018)
- Major de la promotion 2017, Université Paris 13 (2017)
- MIEM USPC Scholarships for International Students in France, University Sorbonne Paris Cité (USPC) (2016)
- Math competitions of Cesenatico (Gold medal), Italian Team Maths Competition (2012)
- INdAM fellowship, Istituto Nazionale di Alta Matematica Francesco Severi (2012)

PROFESSIONAL EDUCATION

- Ph.D in Mathematics (distinction), Institut für Mathematik, Universität Zürich, Zürich , Mathematics (2021)
- M.Sc in Mathematics, Università degli Studi di Padova , Mathematics (2018)
- M.Sc in Mathematics (M2), Université Sorbonne Paris Cité (USPC) , Mathematics (2017)
- B.Sc in Mathematics, Università degli Studi di Padova , Mathematics (2015)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research area is probability theory with connections to combinatorics. I mainly focus on the study of various random discrete structures such as random permutations, walks, trees and planar maps. I am interested in their continuous and discrete limits and I look at universality phenomena. I introduced a universal family of limiting permutons, called "skew Brownian permuton", and explored its connections with Liouville quantum gravity. I also studied some polytopes arising from permutations.

Teaching

COURSES

2021-22

- Discrete Probabilistic Methods: MATH 159 (Spr)

- Introduction to Probability Theory: MATH 151 (Win)
- Stochastic Processes: MATH 136, STATS 219 (Win)