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Georgy Scholten

Academic Positions

2021-current **Post-Doctoral Researcher**, *Sorbonne Université*, Paris, France.
joint affiliation Lip6 & LJLL

Education

- 2016-2021 **PhD in Mathematics**, *North Carolina State University*, Raleigh, NC, USA.
Advisor: Cynthia Vinzant
- 2013-2016 **Bachelor of Science**, *North Carolina State University*, Raleigh, NC, USA.
GPA: 3.7, Mathematics
- 2012-2013 **Mathematics Undergraduate**, *Université des Sciences*, Bordeaux, France.

Publications

- [1] Alexandros Grosdos et al. *Exact Solutions in Log-Concave Maximum Likelihood Estimation*. 2020. arXiv: 2003.04840.
- [2] Zvi Rosen, Georgy Scholten, and Cynthia Vinzant. *Sparse moments of univariate step functions and allele frequency spectra*. 2020. arXiv: 2012.14467.
- [3] Georgy Scholten and Cynthia Vinzant. "Semi-inverted linear spaces and an analogue of the broken circuit complex". In: *Algebraic Combinatorics* 2.4 (2019), pp. 645–661. DOI: 10.5802/alco.65.
- [4] Hoon Hong et al. "Resultants over commutative idempotent semirings I: Algebraic aspect". In: *Journal of Symbolic Computation* 79 (2017), pp. 285–308. ISSN: 0747-7171. DOI: <https://doi.org/10.1016/j.jsc.2016.02.009>.

Academic Activities

Semester-Long Program

Fall 2018 **Semester in Non-Linear Algebra**, *ICERM at Brown University*, Providence, RI.
Participant

Conferences

- 2019 **Geometry of Real Polynomials, Convexity and Optimization**,
Banff International Research Station, Banff, Canada, May.
- 2019 **MAAG**, *Georgia Tech*, Atlanta, GA, April.

- 2018 **Applications of Polynomial Systems**, *Texas Christian University*, Fort Worth, TX, June.
- 2017 **SIAM Conference on Applied Algebraic Geometry**, *Georgia Tech*, Atlanta, GA, August.

Summer Schools

- 2019 **Summer School on Toric Varieties**, *National Center for Theoretical Sciences*, Taipei, Taiwan, August.
- 2019 **Summer School on Geometric and Algebraic Combinatorics**, *Sorbonne University*, Paris, France, June.
- 2018 **Summer School on Hyperbolic Polynomials, Sums of Squares and Optimization**, *Georgia Tech*, Atlanta, GA, June.
- 2016 **Summer School on Real Algebraic Geometry and Optimization**, *Georgia Tech*, Atlanta, GA, June.

Talks

- 2019 **TAGMAC**, *Chapel Hill, NC*.
- 2019 **Aalto University**, *Helsinki, Finland*.
- 2019 **Sorbonne University**, *Paris, France*.
- 2019 **Politecnico di Torino**, *Torino, Italy*.

Teaching

- 2019 **Instructor**, *NCSU, Department of Mathematics*, Raleigh.
Calculus 1
- 2017-2018 **Recitation Leader**, *NCSU, Department of Mathematics*, Raleigh.
Multi-variable Calculus 2, Multi-variable Calculus 3
- 2016-2017 **Teaching Assistant**, *NCSU, Department of Mathematics*, Raleigh.
Differential Equations I, Multi-variable Calculus 3

Service and Outreach

- 2018-2020 President of the AMS graduate student chapter at NCSU, organized events for the graduate students of the department
- 2019 **TAGMAC Organizer**, *NCSU, Department of Mathematics*, Raleigh.
- 2017-2018 Vice-President of the AMS chapter at NCSU, organizing member of TAGMAC, a graduate student research conference between NCSU, UNC Chapel Hill and Duke
- 2016 Math Circle, volunteer
- 2016 Mathematics Tutor, Mathnasium, Raleigh

Languages

French	Fluent	<i>Speaking, Reading, Writing</i>
English	Fluent	<i>Speaking, Reading, Writing</i>
Russian	Fluent	<i>Speaking, Reading</i>