Curriculum Vitae

Shangjie Yang

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Web Page: https://shjyang.github.io

Positions

• February 2022 -present Postdoc

• November 2021- February 2022 Postdoc (online)

• July 2021- October 2021 Postdoc (online)

Bar-Ilan University Host: Gidi Amir and Naomi Feldheim Universidade Federal de Bahia Host: Tertuliano Franco

> Bar-Ilan University Host: Gidi Amir

Education

• March 2017-April 2021 Ph.D. student

• March 2015-February 2017 Master student

• September 2013-December 2014 Master student

• September 2009-June 2013 Undergraduate student Instituto de Matemática Pura e Aplicada Adviser: Hubert Lacoin

Instituto de Matemática Pura e Aplicada Adviser: Vladas Sidoravicius

> Nankai University Adviser: Kainan Xiang Sun Yat-sen University

Research interest

My research focuses on the intersection between probability theory and statistical mechanics: Markov chains and mixing times, random polymer models, interacting particle systems, random walks in random environments, Gaussian random functions.

Publications and preprints

- 5. **N. Feldheim and S. Yang,** Typical height of the (2+1)-D Solid-on-Solid surface with pinning above a wall in the delocalized phase Arxiv: 2301.09197

 Stochastic Processes and their Applications. 165 (2023), Pages 168-182.
- 4. **G. Amir and S.Yang,** The branching number of intermediate growth trees Arxiv: 2205.14238 submitted.
- 3. **H. Lacoin and S.Yang,** Mixing time of the asymmetric simple exclusion process in a random environment Arxiv: 2102.02606 Accepted by Annals of Applied Probability
- 2. **H. Lacoin and S.Yang,** Metastability for expanding bubbles on a sticky substrate Arxiv: 2007.07832 Ann. Appl. Probab. 32(5): 3408-3449 (October 2022).
- 1. **S. Yang,** Cutoff for polymer pinning dynamics in the repulsive phase Arxiv: 1909.04635 Ann. Inst. H. Poincaré Probab. Statist. 57(3): 1306-1335 (2021).

Teaching assistants at Instituto de Matemática Pura e Aplicada

- 1. Probability 1 (03/2018-06/2018)
- Stochastic process (the second half) (10/2019-11/2019)
 (The first half was given by Leandro Chiarini, 8/2019-9/2019)
- 3. Markov chains and mixing times (01/2020-02/2020)

Teaching in Universidade Federal da Bahia

1. Minicourse: mixing time for interface models and particle system (11/2021-01/2022)

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 Weizmann: Students Probability Day IX Short talk: Typical height of the (2+1)-D Solid-on-Solid surface 	May 2023
in the delocalized phase	with pilling above a wan
Bar-Ilan University	March 2023
Talk: Typical height of the (2+1)-D Solid-on-Solid surface wit	
the delocalized phase	an pinning above a wan in
• Technion	March 2023
Talk: Typical height of the (2+1)-D Solid-on-Solid surface wit the delocalized phase	
Bar-Ilan University	Dec 2022
Talk: The branching number of intermediate growth trees	Dec 2022
• Tsinghua UPeking UBKU Webminar	Sep 2022
Talk: Mixing time of ASEP in a random environment	5cp 2022
• Sichuan University	May 2022
Talk: mixing time for interface models and particle system	may 2022
Xiangtan University	May 2022
Talk: mixing time for interface models and particle system	May 2022
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Bar-Ilan University Table position time for interference and depend on action process.	March 2022
Talk: mixing time for interface models and particle system	M 1 000
Oberwolfach workshop Olivery A GED: A GED: A GED:	November 2022
Short talk: mixing time for ASEP in random environment	M 1 202
 Ningbo University Talk: metastability for expanding bubbles on a sticky substrate 	March 202
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 Xiangtan University Talk: metastability for expanding bubbles on a sticky substrate 	November 2020 e
• Bernoulli-IMS One World Symposium	August~2020
short talk: metastability for expanding bubbles on a sticky sub	strate
• XXIII Brazilian School of Probability	July 2019
poster: Cutoff for polymer pinning dynamics in the repulsive p	ű.
• Probability Summer School Saint-Flour (France),	July 2019
short talk: Cutoff for polymer pinning dynamics in the repulsiv	-
Language	уе рназе
Mandarin (native) Cantonese (native) English (fluent) Portuguese	(advance) French (basic)
Programming	
Mathematica MATLAB	
Visit	
• May 2021- February 2022 Instituto de Ma	atemática Pura e Aplicada
Visiting fellow	Host: Hubert Lacoin
Referee for journals	
Annals of applied probability Electronic Journal of	f Probability
Communications in Mathematical Physics	
Award	
Colman-Soref scholarship (2023 Israel)	
Miscellanies	