Curriculum Vitae

Shangjie Yang

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Positions

• March 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 submitted.

4. **G. Amir, S.Yang,** The branching number of intermediate growth trees Arxiv: 2205.14238 submitted.

- 3. **H. Lacoin, 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, 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)
- 2. 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 Uniersidade Federal da Bahia

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

Talks

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• Bar-Ilan University	March 2023
Talk: Typical height of the (2+1)-D Solid-on-Solid surface with pinning	
delocalized phase • Technion	March 2023
Talk: Typical height of the (2+1)-D Solid-on-Solid surface with pinning delocalized phase	g above a wall in the
• Bar-Ilan University	Dec 2022
Talk: The branching number of intermediate growth trees • Tsinghua UPeking UBKU Webminar	Sep 2022
Talk: Mixing time of ASEP in a random environment	Sep 2022
• Sichuan University Talk: mixing time for interface models and particle system	$May\ 2022$
• Xiangtan University	May 2022
Talk: mixing time for interface models and particle system • Bar-Ilan University	March 2022
Talk: mixing time for interface models and particle system	
• Oberwolfach workshop Short talk: mixing time for ASEP in random environment	November 2021
• Ningbo University	March 2021
Talk: metastability for expanding bubbles on a sticky substrate • Xiangtan University	November 2020
Talk: metastability for expanding bubbles on a sticky substrate	11000111001 2020
• Bernoulli-IMS One World Symposium short talk: metastability for expanding bubbles on a sticky substrate	August 2020
• XXIII Brazilian School of Probability	July 2019
poster: Cutoff for polymer pinning dynamics in the repulsive phase	, and the second
 Probability Summer School Saint-Flour (France), short talk: Cutoff for polymer pinning dynamics in the repulsive phase 	July 2019
Language	
Mandarin (native) Cantonese (native) English (fluent) Portuguese	(fluent)
Programming	
Mathematica MATLAB	
Vioit	
Visit ■ May 2021- February 2022 Instituto de Matemát	tica Pura e Anlicada
	Host: Hubert Lacoin
Referee for the journal	
Annals of applied probability Electronic Journal of Probability	
Miscellanies Volunteers ICM 2018	
Kolman-Soref scholarship (2023, Israel)	