# Curriculum Vitae

### Shangjie Yang

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#### **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 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)
- 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)

## Talks

Volunteers ICM 2018 (Rio de Janeiro)

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• Weizmann: Students Probability Day IX Short talk: Typical height of the (2+1)-D Solid-on-Solid surface with pinr in the delocalized phase	May 2023 ning above a wall
Bar-Ilan University	March 2023
Talk: Typical height of the (2+1)-D Solid-on-Solid surface with pinning the delocalized phase	
• Technion	March 2023
Talk: Typical height of the (2+1)-D Solid-on-Solid surface with pinning the delocalized phase	
Bar-Ilan University	Dec 2022
Talk: The branching number of intermediate growth trees	200 2022
• Tsinghua UPeking UBKU Webminar	Sep 2022
Talk: Mixing time of ASEP in a random environment	1
• Sichuan University	May 2022
Talk: mixing time for interface models and particle system	, and the second
• 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	November 2021
Short talk: mixing time for ASEP in random environment	16 1 2024
Ningbo University  The state of the sta	March 2021
Talk: metastability for expanding bubbles on a sticky substrate	
• Xiangtan University	November 2020
Talk: metastability for expanding bubbles on a sticky substrate	
• Bernoulli-IMS One World Symposium	$August\ 2020$
short talk: metastability for expanding bubbles on a sticky substrate	
• XXIII Brazilian School of Probability	July 2019
poster: Cutoff for polymer pinning dynamics in the repulsive phase	
• Probability Summer School Saint-Flour (France),	July 2019
short talk: Cutoff for polymer pinning dynamics in the repulsive phase	v
Language	
Mandarin (native) Cantonese (native) English (fluent) Portuguese (advance)	French (basic)
Programming	,
Mathematica MATLAB	
Visit	
May 2021- February 2022     Instituto de Matemática	Pura e Anlicada
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Referee for journals	
Annals of applied probability Electronic Journal of Probability	
Communications in Mathematical Physics	
Award	
Colman-Soref scholarship (outstanding postdoc fellowship, 2023 Israel)	
(	
Miscellanies	