Curriculum Vitae

Shangjie Yang

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Positions

• March 2022 -present Postdoc

• November 2021- February 2022 Postdoc

• July 2021- October 2021 Postdoc Bar-Ilan University Host: Gidi Amir and Noami 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, metastability, 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

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 submitted.
- 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	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	
• Sichuan University	May 2022
Talk: mixing time for interface models and particle system	14 0000
• 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	Maich 2022
Oberwolfach workshop	November 2021
Short talk: mixing time for ASEP in random environment	11000111001 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	
Bernoulli-IMS One World Symposium	August 2020
short talk: metastability for expanding bubbles on a sticky substrate	11 ag as v 2020
XXIII Brazilian School of Probability	July 2019
poster: Cutoff for polymer pinning dynamics in the repulsive phase	July 2013
• Probability Summer School Saint-Flour (France),	July 2019
short talk: Cutoff for polymer pinning dynamics in the repulsive phase	July 2013
Language	2
Mandarin (native) Cantonese (native) English (fluent) Portuguese (f	luent)
Programming	
Mathematica MATLAB	
Visit	
• May 2021- February 2022 Instituto de Matemátic	ca Pura e Aplicada
Visiting fellow Ho	ost: Hubert Lacoin
Referee for the journal	
Annals of applied probability Electronic Journal of Probability	
Annais of applied probability Electronic Journal of Probability	