Curriculum Vitae

Shangjie Yang

Universidade de São Paulo

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Positions

• March 2024— Present Postdoc

• February 2022 — February 2024 Postdoc

• November 2021 — February 2022 Postdoc (online)

• July 2021 — October 2021 Postdoc (online)

Universidade de São Paulo Host: Leonardo Rolla

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 (dropout)

• 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

 Ann. Appl. Probab. 34(1A): 388-427 (February 2024).
- 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)
- 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)

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Teaching in Universidade Federal da Bahia

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

Talks

• Conference: Probability and Statistical Physics	Jan 2024
Talk: Mixing Time of ASEP in a random environment	
Beijing Normal University	Jan 2024
Talk: Metastability for expanding bubbles on a sticky substrate	
Harbin Institute of Technology	Dec 2023
Talk: Metastability for expanding bubbles on a sticky substrate	
• Southern University of Science and Technology (SUSTech)	Nov 2023
Talk: Metastability for expanding bubbles on a sticky substrate	N 0000
• Sichuan University	Nov 2023
Talk: Cutoff for polymer pinning dynamics in the repulsive phase	M 0000
• Academy of mathematics and system science	Nov 2023
Talk: Cutoff for polymer pinning dynamics in the repulsive phase	37 0000
Nankai University	Nov 2023
Talk: Cutoff for polymer pinning dynamics in the repulsive phase	
• Tsinghua University	Nov 2023
Talk: Cutoff for polymer pinning dynamics in the repulsive phase	
• Harbin Institute of Technology	Oct 2023
Talk: Cutoff for polymer pinning dynamics in the repulsive phase	
• Weizmann: Students Probability Day IX	$May \ 2023$
Short talk: Typical height of the (2+1)-D Solid-on-Solid surface with p	oinning above a wall
in the delocalized phase	
• Bar-Ilan University	March~2023
Talk: Typical height of the (2+1)-D Solid-on-Solid surface with pinn	ing above a wall in
the delocalized phase	
• Technion	March 2023
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short talk: Cutoff for polymer pinning dynamics in the repulsive phase		
Language		
Mandarin (native) Cantonese (native) Eng	lish (fluent) Portuguese (advance) French (basic)	
Programming		
Mathematica MATLAB		
Visit		
• 30 December 2023 — 13 January 2024	v v	
Short visit	Host: Quan Shi	
• 11 December 2023 — 29 December 20 Short visit	123 Bimsa Host: Yuval Peres	
• 02 December 2023 — 10 December 20		
Short visit	Host: Chenlin Gu, Xinyi Li	
• 29 November 2023 — 2 December 202	· · · · · · · · · · · · · · · · · · ·	
Short visit	Host: Jieliang Hong, Raúl Ures	
• 8 November 2023 — 15 November 202	v	
Short visit	Host: Yinshan Chang	
• 2 November 2023 — 7 November 2023 Short visit	Academy of Mathematics and Systems Science Host: Hui Xiao	
$\bullet~27$ October 2023 — 1 November 2023	Harbin Institute of Technology	
Short visit	Host: Jinghao Huang	
• May 2021 — February 2022	Instituto de Matemática Pura e Aplicada	
Visiting fellow	Host: Hubert Lacoin	
Referee for journals		
Annals of applied probability	Annals of probability	
Communications in Mathematical Physics	Electronic Journal of Probability	
Award		
Colman-Soref scholarship	2023, Israel	

July 2019

• Probability Summer School Saint-Flour (France),

Miscellanies

2018 ICM Volunteer (Rio de Janeiro)