

# Curriculum Vitae

## Shangjie Yang

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## Positions

- March 2022 -present  
Postdoc  
Bar-Ilan University  
Host: Gidi Amir and Naomi Feldheim
- November 2021- February 2022  
Postdoc (online)  
Universidade Federal de Bahia  
Host: Tertuliano Franco
- July 2021- October 2021  
Postdoc (online)  
Bar-Ilan University  
Host: Gidi Amir

## Education

- March 2017-April 2021  
Ph.D. student  
Instituto de Matemática Pura e Aplicada  
Adviser: Hubert Lacoin
- March 2015-February 2017  
Master student  
Instituto de Matemática Pura e Aplicada  
Adviser: Vladas Sidoravicius
- September 2013-December 2014  
Master student  
Nankai University  
Adviser: Kainan Xiang
- September 2009-June 2013  
Undergraduate student  
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 Universidade Federal da Bahia

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

## Talks

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- Weizmann: Students Probability Day IX *May 2023*  
Short talk: Typical height of the (2+1)-D Solid-on-Solid surface with pinning 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 pinning above a wall in the delocalized phase
- Technion *March 2023*  
Talk: Typical height of the (2+1)-D Solid-on-Solid surface with pinning above a wall in the delocalized phase
- Bar-Ilan University *Dec 2022*  
Talk: The branching number of intermediate growth trees
- Tsinghua U.-Peking U.-BKU 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
- 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
- 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
- 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

## Language

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Mandarin (native)   Cantonese (native)   English (fluent)   Portuguese (advance)   French (basic)

## Programming

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Mathematica   MATLAB

## Visit

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- May 2021- February 2022   Instituto de Matemática Pura e Aplicada  
Visiting fellow   Host: Hubert Lacoin

## Referee for journals

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Annals of applied probability   Electronic Journal of Probability

## Award

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Kolman-Soref scholarship (2023, Israel)

## Miscellanies

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Volunteers ICM 2018 (Rio de Janeiro)